

**Ministry of Public Works and Water Resources
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**

**ANNUAL REPORT
(JANUARY–DECEMBER 1999)**

Report No. 29

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**Water Policy Program
International Resources Group Winrock International
Nile Consultants**

**ANNUAL REPORT
(January - December 1999)**

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I. INTRODUCTION

The Agricultural Policy Reform Program (APRP) is a seven-year (1996-2002) United States Agency for International Development (USAID) grant program involving several ministries. The Ministry of Water Resources and Irrigation (MWRI) is the primary Egyptian government agency responsible for the management of irrigation and water resources. MWRI and USAID under the umbrella of the APRP jointly designed a water policy package, which consists of integrated water policy and institutional reforms. USAID supports the MWRI efforts through annual cash transfers based on performance in achieving identified and agreed upon policy reform benchmarks and technical assistance.

To assist participating GOE ministries with policy reform measures, APRP manages six technical assistance units having offices within MWRI and MALR. Originally there were five TA units working directly with MWRI in support of water related activities. This has now been reduced to three with the completion of the USAID funded activities of GreenCom and MSM. Co-ordination among MWRI, USAID and the water policy TA units is through the Water Policy Advisory Unit (WPAU) and a project steering committee established by the MWRI. The **Water Policy Advisory Unit (WPAU)** is the GOE counterpart of the Water Policy Reform activity and is designed to incorporate a multidisciplinary working group of experts to directly support the policy reform process within MWRI. The unit participates directly in benchmark identification, review, approval, and implementation. WPAU coordinates with the MWRI Minister's office and the MWRI Steering Committee on behalf of all USAID-Sponsored activities. The **EPIQ Water Policy Unit (EPIQ)** assists MWRI to identify and carry out policy reform, which will increase the global efficiency and productivity of Egypt's Nile water system under a water resources results package task order. The unit directly assists and takes a lead in identifying and achieving annual policy reform benchmarks, working closely with the MWRI steering committee, WPAU, key ministry officials, and other APRP units. The water education and communications activity was carried out with assistance from **GreenCom**, a USAID/W global project, working with the MWRI **Water Communications Unit (WCU)** to accomplish tasks in support of overall policy reform in the water sector. This included raising public awareness on water scarcity and promoting and building improved levels of communication between water users and MWRI field staff. The GreenCom contract was completed in October 1999. The **Main System Management (MSM)** activity was under the MWRI planning sector, but has been transferred to the irrigation sector. A TA contract, completed in December 1999 under Harza Engineering, assisted MWRI with the objectives of: 1) improving Nile irrigation system operations by installing a telemetry system to manage water distribution; 2) improving telemetry O&M to insure sustainability. MSM has the potential of providing accurate and useful data on irrigation system efficiency, identifying areas of resource misuse, matching demands and supply, or planning operation changes. The **Monitoring, Forecasting and Simulation Nile Forecast Center (MFS)** is looking at procedures to accurately predict inflows into the High Aswan Dam and how to optimize management of current Nile flows.

The water policy TA units work closely with three TA units located with MALR. The **Program Management Unit (PMU)** provides overall coordination for APRP. The **Monitoring, Verification and Evaluation Unit (MVE)** evaluates GOE performance in meeting the policy benchmarks and is responsible for evaluating the impact of the policy

reforms made under APRP. The **Reform Design and Implementation Unit (RDI)** is responsible for providing guidance on policy reform on all areas of agriculture that encourage the removal of barriers to private enterprise development and creation of a liberal, competitive marketing system that stimulates sustainable agricultural growth. The RDI unit takes the lead in formulation of the APRP agriculture policy related benchmarks.

Technical assistance for the EPIQ water policy analysis activity is provided through a water resources results package task order (Contract PCE-I-00-96-00002-00, Task Order 807) under the Environmental Policy and Institutional Strengthening Indefinite Quantity Contract (EPIQ) between USAID and a consortium headed by the International Resources Group (IRG) and Winrock International. Local technical assistance and administrative support for EPIQ is provided through a subcontract with Nile Consultants.

II. ACCOMPLISHMENTS

During 1999 EPIQ team members implemented work plan activities related to Tranche III (FY98/99) and Tranche IV (FY 99/00) benchmarks.

Tranche III (FY 98/99)

During the period January 1999 to June 1999, the EPIQ TA team worked with USAID, MWRI, MALR, WPAU and the other APRP TA units on the accomplishment of eight APRP Tranche III water policy benchmarks:

- C.1: Main System Management Program Utilization
- C.2: Free Flowing Groundwater Management
- C.3: Branch Canal Water User Organizations
- C.4: Irrigation Advisory and Support Service
- C.5: Sugarcane Water Use Policies (MWRI/MALR)
- C.6: Rice Water Use Policies (MWRI/MALR)
- C.7: Intermediate Drain Water Reuse
- C.8: Water Quality Regulation--Law 48

A summary of the APRP Water Policy Tranche III Benchmark Work Plan is presented in Appendix A.

Two of these benchmarks, C.5: sugar cane and C.6: rice, were joint benchmarks with the Ministry of Agriculture and Land Reclamation (MALR). The APRP MSM TA unit supervised activities for C.1: Main System Management.

Formal reports were prepared and issued by EPIQ/WPAU, which documented the benchmark activities and recommendations.

A workshop was held in Sharm El Sheikh, 11-12 June 1999, to present proposed strategies and policy recommendations for the Tranche III water benchmark activities to the MWRI Steering Committee. The EPIQ, WPAU and MSM TA teams gave formal presentations to the participants. The workshop was attended by the Minister of MWRI, members of the MWRI Steering Committee, USAID, WPAU staff, representatives from the APRP TA teams, and the EPIQ TA team.

The recommendations adopted at the Sharm El Sheik workshop by the MWRI Steering Committee on the eight Tranche III water policy benchmark topics were compiled in a document that was presented and approved by the Minister.

The APRP Monitoring, Verification and Evaluation Unit and USAID classified all of the eight Tranche III water policy benchmarks as met or exceeded.

Specific Accomplishments:

C1. Nile Water Flow Measurement: GOE (MWRI) implemented policies and procedures to shift from distributing Nile River water based on water levels to distributing water based on water volumes using the Main System Management Telemetry System at main canal intakes, barrages on the Nile River and division points between Directorates for enhanced irrigation operations and decision-making. Over 70 regulators were calibrated at critical locations in the Nile system and the relationships have been entered into the telemetry system software so that volumetric flow measurements are achieved at these locations. MWRI approved a policy that water management will be based on volumetric flow and that telemetry data will be used for water management decisions at points where telemetry stations exist.

C2. Free Flowing Groundwater Management: The MWRI approved a policy package for reducing water loss and land degradation due to improper operation and management of free-flowing groundwater in the reclaimed areas of the Western Desert. A program for developing groundwater user unions at Farafra Oasis was completed, with the formal organization of three groundwater user unions (the first in Egypt). A final report that detailed the policy recommendations was submitted to the MWRI Steering Committee in June. H.E. Minister MWRI approved the recommendations. The benchmark was evaluated as fully accomplished by MVE.

C.3. Branch Canal Water User Organizations: The MWRI successfully introduced a policy for forming water user organizations above the mesqa level. Three branch canal water user associations (Qemri, Bahr el Dahram and Balaqtar) in the Nile Delta were formally registered with MWRI. Process documentation reports were prepared on the three branch canals describing the formation of the organizations. O&M cost-sharing plans were prepared for two of the canals. A final report with recommendations for the benchmark was submitted to the MWRI Steering Committee in June and H.E. Minister MWRI approved the recommendations. The benchmark was evaluated as fully accomplished by MVE. Two, one week, Participatory Rural Appraisal training courses for 25 MWRI staff to support the formation of Branch Canal Water User Associations were conducted. MWRI Action Team completed a two-week study tour (Feb 12 - 28) sponsored by DT-2 to the US on Federating Water User Associations

C.4. Irrigation Advisory and Support Service: The necessary documentation required to establish the Irrigation Advisory Service as a permanent unit within MWRI was prepared. The MWRI approved the institutionalization of the Irrigation Advisory and Support Service. A Ministerial decree was issued establishing the Irrigation Advisory and Support Services Central Directorate under MWRI. Necessary documents were submitted to the Central Authority for Organization and Management to establish an Irrigation Advisory and Support Services Central Directorate under the MWRI. A final report on this process, with recommendations, was submitted to the MWRI Steering Committee in June. H.E. Minister MWRI approved the recommendations. The benchmark was evaluated as fully accomplished by MVE.

C.5 Sugarcane Water Use Policies (MWRI/MALR): As part of the GOE effort to promote improved water management efficiency in Upper Egypt, improved irrigation technologies

were installed on an area of 600 feddans of private commercial sugar cane in Qena (Wakf, Naga Hammady, and Armante Districts). This included installation of pumps, laser leveling, and gated pipe delivery systems. A water-monitoring program was established, and training was provided to farmers in the use of improved irrigation methods. The benchmark was evaluated as exceeded by MVE.

C.6. Rice Water Use Policies (MWRI/MALR): A national plan to extend the introduction of short duration rice varieties to the six rice-growing governorates (approximately 100,000 feddans) in the Delta was approved by MALR and MWRI. Six specific canals were selected for extending the short duration rice variety pilot activities, one in each rice-growing governorate. Training and orientation of MWRI irrigation sector staff, village extension staff and farmers was conducted. A final report describing the national plan, with recommendations for the benchmark, was submitted to the MWRI Steering Committee in June. H.E. Minister MWRI approved the plan. The benchmark was evaluated as fully accomplished by MVE.

C.7. Intermediate Drain Water Reuse: The MWRI established an intermediate drainage water reuse program for the Bahr Bagar Drain in Abou Hammad district as a model for other areas. Engineering, economic, social, and environmental assessments were conducted. A focus group workshop was held in Abou Hammad district to discuss intermediate reuse with stakeholders. More than 40 farmers and 10 local officials including MWRI under secretary and city council chairman participated. An operations plan and tender documents for the pumps were prepared. A final report describing the intermediate reuse program, with recommendations for the benchmark, was submitted to the MWRI Steering Committee in June. H.E. Minister MWRI approved the recommendations. The benchmark was evaluated as fully accomplished by MVE.

C.8. Water Quality Regulation--Law 48: The TA team worked with all of the major institutions participating in the inter-ministerial committee established by MWRI to evaluate potential changes to Law 48/1982. Short-term environment consultant, Mr. Victor Kimm, presented a seminar on "Water Pollution Control Activities in United States". A draft revision of Law 48/1982 and its by-laws, governing water quality management to more effectively control discharge of wastes and wastewater into the Nile and its waterways, was prepared by an MWRI-led interministerial task committee. The task committee included representatives from the Ministries of Agriculture and Land Reclamation, Health and Population, Environment, Housing and New Communities, Industry, and Water Resources and Irrigation. EPIQ and WPAU provided technical assistance. The draft revision was presented to the Minister of MWRI. A final report with details of the draft revision and recommendations was submitted to the MWRI Steering Committee in June. H.E. Minister MWRI approved the recommendations. The benchmark was evaluated as fully accomplished by MVE.

Tranche IV (FY 99/00)

During the period July 1999 to December 1999, the EPIQ TA team worked with USAID, MWRI, MALR, WPAU and the other APRP TA units to finalize the content, prepare draft implementation work plans, and begin implementation for the Tranche IV water policy benchmarks activities.

The MOU for Tranche IV was signed on 20 September 1999. The MOU includes 20 policy benchmarks to be completed in two phases. Phase 1 is to be completed by 31 December 2000 and Phase 2 is to be completed by 31 December 2001. There are five benchmarks involving water policy reform. These are:

- C.1. Reducing Mismatch of Irrigation Deliveries
- C.2. Urban Wastewater and Drainage Reuse
- C.3. Water Management at the Directorate Level
- C.4. Irrigation Management Transfer
- C.5. Revision of Law 12

A summary of the APRP Water Policy Tranche IV Benchmark Work Plan is presented in Appendix B.

The Tranche IV water policy benchmarks were approved by the MWRI Steering Committee on 27 July 1999. The MWRI has sole responsibility for four of these benchmarks (C.2, C.3, C.4, C.5). The remaining benchmark (C.1 Mismatching) is a joint benchmark with the Ministry of Agriculture and Land Reclamation (MALR). Four of the benchmarks are multi-year benchmarks, which means they will require partial completion in Phase 1 (December 2000) and final completion in Phase II (December 2001). Two of the benchmarks are being coordinated by WPAU (C.3, 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 draft work plans for the Tranche IV benchmarks were prepared by the responsible task group in consultation with relevant cooperators with direct assistance from the following APRP TA units: Water Policy Advisory Unit (WPAU), EPIQ Water Policy Team (EPIQ), Main System Management (MSM), Program Management Unit (PMU), Monitoring, Verification and Evaluation Unit (MVE), and the Reform Design and Implementation Unit (RDI).

The draft Tranche IV water policy benchmark work plans were discussed at a Water Group retreat held in Port Said on 13-14 September. The draft Tranche IV water policy benchmark implementation work plan (FY 99/00) was presented to HE Minister MWRI, USAID Agriculture Policy Team and the MWRI Steering Committee at a workshop held on October 28-30, 1999 in Alexandria. The comments and suggestions provided at the workshop were incorporated into the final work plans. These plans were reviewed and approved by the Steering Committee at a meeting held on 1 December.

Specific Accomplishments:

C.1. Reducing Mismatch of Irrigation Deliveries: An initial working group was formed to begin the task of developing a system, or systems, of real-time information flow. Four governorates were identified as potential pilot areas: Beheira, Beni Seuf, Luxor/Qena and Sharkaya. Two workshops were held. A workshop was held in September for the governorate-level administrators of both MWRI and MALR in Cairo to discuss implementation approaches and identify pilot districts. A draft work plan for the benchmark was prepared. Data collection for the winter cropping pattern was started in all five of the selected water districts in four governorates. These data were submitted to EPIQ and to

MWRI. Field meetings were held in each governorate during the data collection process to guide the efforts. A second workshop was held in Cairo in December to discuss the data collection and any problems encountered, and to set the formats and schedules for data collection for the winter cropping season.

C.2. Urban Wastewater and Drainage Reuse: An EPIQ task group was formed. Investigation of the practice of wastewater discharge and reuse in the field was started. Possible pilot areas were identified. These include Lower Serw, Upper Serw, and Bahr Hadous drains, where drainage water is polluted by urban sewage from nearby cities and industries and is then provided to the Salaam Canal for reuse. Close cooperation with the following inter-ministry agencies will be the core of the benchmark: National Organization of Potable Water and Sanitary Drainage (NOPWASD) of Ministry of Housing and Reconstruction and Urban Development (MHRUD), Afforestation Department (AFD) of Ministry of Agricultural and Land Reclamation (MALR), Environmental Health Department (EHD) of Ministry of Health and Population (MHP), Compliance Office (CO) of Ministry of Environmental Affairs (MEA), and General Economic Organization for Potable Water and Sanitary Drainage (GEOPWASD) in selected Governorates. Cooperation within MWRI will include: Egyptian Public Authority for Drainage Projects (EPADP), Dakahlia Irrigation Directorate, and Drainage Research Institute (DRI) of the National Water Research Center (NWRC). A draft work plan for the benchmark was prepared in consultation with the MWRI, USAID and these cooperators. The EPIQ water quality task group finalized the benchmark work plan based upon the comments and recommendations from the Tranche IV Implementation Workshop (Oct 29-30, Alexandria). A series of meetings were held between the five ministries and agencies responsible for water quality issues. To coordinate participation in the benchmark implementation, a workshop was held in December to introduce the various representatives from each of the five ministries and agencies proposed for participation in the water quality task group. The task group also made field trips to a number of locations including Helwan Wastewater Treatment Plant, major drains in the Dakahlia region being proposed for reuse by El Salam Canal, Luxor Wastewater Treatment Plant, Mansoura Wastewater Treatment Plant, and Khanatta/NWRC Central Lab for Environmental Quality Monitoring.

C.3. Water Management at the Directorate Level: WPAU is taking the lead on this benchmark. Qena Directorate from Upper Egypt, and Sharkiya Directorates from Lower Egypt have been identified as the two directorates to be involved in this program. A work plan for the benchmark was prepared. Pilot implementation programs were started in Qena Directorate in Upper Egypt, and Sharkiya Directorates in Lower Egypt. Detailed work plans were prepared to calibrate water level/flow discharge relationships at 43 sites (19 in Sharkiya and 24 in Qena). The measurement program was started.

C.4. Irrigation Management Transfer: The work plan for the benchmark was finalized and approved by the Steering Committee. Draft scopes of work for consultancy LOEs were prepared in anticipation of consultants being mobilized following Steering Committee approval of the work plan in November. A working group has been formed. Members include the EPIQ Senior Sociologist (task manager), and representation from the WPAU, MED, Irrigation Sector, IAS, EPAD, and Horizontal Expansion sector. An IMT Task Force was formed under the operational aegis of the Steering Committee, to provide oversight and guidance to the implementers of the benchmark work plan. A review was undertaken of the approaches and levels of reported impact of IMT experiences in 13 countries; a summary was

prepared that distills the information into a matrix format. The EPIQ team working with staff of the WPAU initiated outreach within MWRI among senior department heads regarding perceptions and potential for IMT interventions. Meetings were held with heads of the Irrigation Department, Irrigation Advisory Service (IAS), Drainage Authority (EPAD), Horizontal Expansion Sector, Mechanical and Electrical Department (MED), Planning Sector, and Water Policy Advisory Unit, as well as the Groundwater Research Institute under the NWRC. Field trips were made to visit possible IMT pilot areas in south Tahrir (Beheira), reclaimed lands in Sharkaiya Governorate (Sarheya, and El Moulak Canal) and western El Salaam Canal.

C.5. Revision of Law 12: WPAU is taking the lead on this benchmark. EPIQ assisted WPAU in finalizing the benchmark and preparing the work plan. EPIQ also assisted WPAU in reviewing relevant irrigation water management GOE laws and identifying new areas and concepts related to improved water management and water use. EPIQ staff attended MWRI Law 12 task committee meetings. Meetings were held with heads of the Irrigation Department, Drainage Authority and Mechanical and Electrical Department to discuss current institutional framework of irrigation water management.

Studies/Implementation Activities

The EPIQ team is involved in supporting select activities that relate directly to implementation of previous water policy benchmarks or lead to the identification of future policies and benchmarks.

Sugarcane Water Use Policies (MWRI/MALR)

This was a follow-up activity to the Tranche II and Tranche III sugar cane water use policy benchmarks. Improved irrigation techniques, land leveling and perforated pipe systems, have been installed in pilot areas (500 f) in the Qena and Luxor areas. MWRI installed measurement structures and telemetry devices on four branch canals where pilot sugar cane on-farm activities were implemented. Totalizing meters, provided by MWRI, were installed on each pump serving the pilot areas to measure on-farm water use. EPIQ has agreed to provide TA to assist MWRI in the monitoring and evaluation of the water savings in these pilots.

Rice Water Use Policies (MWRI/MALR)

This was a follow-up activity to the Tranche II and Tranche III rice water use policy benchmarks. Under Tranche III it was agreed that MALR and MWRI would jointly adopt policies for the substitution of short duration rice varieties for long duration rice varieties and change water scheduling. This included development of a demonstration program and national plan to ensure that short duration rice varieties were grown in all rice growing areas in Egypt, and coordinated so that rice water rotations could be reduced and water saved. A demonstration branch canal and a control branch canal were selected in each of the six rice growing governorates in the Delta. A policy “package,” including the exclusive cultivation of short season rice varieties, coordinated planting dates, and changing from a rice water rotation to a standard rotation at the end of August, was implemented on the demonstration branch canals. Farmer free choice of both variety and crop calendar was permitted on the

control canals. A water-monitoring program was implemented, consisting of the installation and calibration of automatic recorders and the collection of water diversion data throughout the 1999 summer cropping season. Results indicate that water savings of approximately 12% to 15% can be achieved by the adoption of the policy package, but failure to implement any part of the package will result in the absence of measurable water savings. A report was prepared documenting the pilot program.

Dr. Ramchand Oad, water policy monitoring measurement specialist, provided STTA support for the program.

Agricultural Water Demand

The Agricultural Sector Model for Egypt (ASME) was originally developed in the early 1980's. Revisions of that model have been relatively frequent, including those by MWRI Planning Sector. The current effort involved reviewing the model for consistency, providing a reasonably detailed description of the model structure and data, and evaluating, in so far as possible, the efficacy of the model for policy analysis. The study examined the structure of and the data used in the Agricultural Sector Model for Egypt (ASME) with respect to: (1) estimation of agricultural water demand and the shadow value of water in irrigated agriculture, (2) projected or expected impacts of alternative policy changes, and (3) cropping pattern changes due to both policy and external perturbations. A working group, consisting of personnel from MWRI, MALR, EPIQ, NWRP, and RDI, undertook the tasks. All data in the model were updated to base year 1995. A second data set reflecting 1997 data was also developed. A set of automatic checks was developed which identified inconsistencies in the model structure and data. An example of the use of the model was developed, in which the demand curves (marginal values) for water were generated. It is recommended that the focus of the use of the model for policy analysis be general (directional) rather than specific. However, it is also recognized that the ASME97 model represents a useful tool for policy analysis and evaluation of potential impacts of both policy and other changes in the agricultural economy of Egypt. A report was prepared documenting the review.

MWRI GIS Study

A study to assist MWRI in establishing a policy on GIS standards and data was requested by Egypt's National Survey Authority (ESA). The purpose of the study was to recommend standards and specifications (hardware and software) for future GIS activities to ensure that ESA's current investment in GIS technology is being wisely and efficiently utilized. The study is expected to serve as a baseline for preparation of a policy document within MWRI on the introduction and use of GIS technology.

EPIQ provided Dr. Frank Hanigan (water policy information specialist) from 18 May – 2 June to assist MWRI in preparing the framework for the study.

Media Watch

EPIQ contracted with Pan Arab Research Center (PARC) to monitor the television and radio media add campaign prepared by the MWRI Water Communications Unit and GreenCom. The add campaign was launched in November 1999. PARC is monitoring the campaign through February 2000.

Workshops

A list of workshops and training programs sponsored by EPIQ are presented in Appendix C.

EPIQ at the request of USAID provided financial assistance to MWRI in conducting three conferences: “Seventh Nile 2002 Water Conference on the Comprehensive Water Resources Development of the Nile Basin” held in Cairo from 15-19 March, the National Water Research Center conference on “Integrated Management of Water Resources in the 21st Century” held in Cairo from 21 to 25 November, and the UNESCO sponsored conference on “Water Ethics” held in Aswan on 28-30 November.

APRP/EPIQ Coordination

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

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

EPIQ COP attended the USAID SO1 meetings.

Regular water group coordination meetings were held at MWRI. WPAU, EPIQ WPRP, MSM, and GreenCom/WCU participated. These meetings focused on the development and implementation of the benchmarks.

As part of its public awareness program, GreenCom/WCU worked with EPIQ/WPAU in preparing video documentation of a number of Tranche III benchmark focus group meetings and pilot activities

WPAU, Greencom/WCU, and USAID staff routinely accompanied EPIQ TA staff on field trips. Meetings of the joint MWRI/MALR rice-working group, the sugarcane working group and mismatch-working group were held on a regular basis.

In addition to the Steering Committee workshops, several MWRI Steering Committee meetings were also held. A meeting was held on July 27 July to finalize the content of the Tranche IV water policy benchmarks. Another meeting was held on 9 September at the request of USAID to discuss the improved management of environment and natural resources in the water sector. A third meeting was held on 1 December to finalize the Tranche IV water policy benchmark implementation work plan. The MWRI Steering Committee members are: Eng. Gamil (Chairman), Eng. Abdel Rahman Shalaby (MWRI), , Dr. Mona El-Kady (MWRI), Eng. Ramsis Bakhoum (MWRI), Eng. Hussein El-Atfy (MWRI), Dr. Craig Anderson (USAID) and Dr. Jeff Fredericks (EPIQ). Eng. Yehia Abdel Aziz (MWRI) retired in October 1999 as head of the Irrigation Department. His successor, Eng. Aly Morsey Butt, replaced Eng. Yehia on the Steering Committee.

Dr. J. Fredericks (EPIQ) and Dr. Ahmed F. Khattab (EPIQ) were appointed to the MWRI Co-ordination Committee on Water Resources Planning Projects. Meetings were held on 7 February, 28 July and 17 November. Participants from MWRI include Eng. Shalaby (chairman), Dr. Mona El-Kady, Dr. Bayoumi B. Attia, Dr. Shaden Abdel-Gawad, Dr. Samia El-Gundy, Dr. Abd El-Ftah Metawe, Eng. Hussein El Atfy, Eng. Kamal M. Enany, Eng. Mohamed Fathy, and Dr. Hussein Fahmy. K. Veeningen (National Water Resources Plan Project). Dr. Tarek Sadek. Dr. Francesco Manzo (DSS) and K. Veeningen (National Water Resources Plan Project) are also members.

Members of the EPIQ team (J. Fredericks, J. Keith, and Dr. Mahdy) attended the Tranche IV non-water implementation workshop sponsored by RDI. The workshop was held in Faed on Nov 17-18. USAID Ag Policy Team, APRP TA non-water teams, and several representatives from the non-water ministries attended.

The EPIQ WPRP team sponsored a Ramadan Iftar for the Water Group on 11 December. The Iftar was attended by H.E. Minister MWRI, Craig Anderson (USAID), Eng. Mahmoud Mabrouk (USAID), Dr. Wadie Fahim (USAID), Eng. Gamil (WPAU), and the EPIQ TA team.

Dr. Roberta Mahoney (Associate Director Economic Growth/USAID) made an introductory visit to H.E. Minister MWRI on 22 August. She was accompanied by Dr. Craig Anderson (Acting Division Chief, Ag. Policy Unit/USAID), Dr. Wadie Fahim (USAID), Eng. Gamil (WPAU), and Dr. Jeff Fredericks (EPIQ)

Dr. Richard Brown (Mission Director, USAID), Dr. Roberta Mahoney (Associate Director, Economic Growth/USAID), and Dr. Tom Olson (Division Chief, Ag. Policy Unit/USAID) made a visit to the EPIQ/WPAU offices at MWRI after meeting with H.E. Minister MWRI on 31 August.

Dr. Ken Baum (USAID/EPIQ Project Coordinator), Richard Cobb (VP Winrock), Doug Clark (EPIQ Project Coordinator), Dr. Assif Shaikh, (IRG President and CEO), Henk Knipsheer (Winrock Project Director), Ellen Corbin (IRG Project Administrator), Judy Webb (IRG Contract Officer) and Ken Ames (IRG Project Administrator) made separate visits to the project during the year.

III. PROBLEMS AND ISSUES

Dr. Tom Ley, resident senior irrigation engineer, departed the project on 4 February 1999 for personal reasons. Dr. John Keith completed his two year assignment as resident water resource economist on December 31, 1999. Both positions will be filled in early 2000. Tom Burolla, project administrator, left the project in March 1999. He was replaced by Greg Olson.

Tranche III was successfully completed as scheduled on 30 June, 1999.

The Tranche IV benchmark MOU was signed in September, 1999.

Cooperation between EPIQ and USAID, MWRI, WPAU, other APRP units was excellent. HE Minister MWRI sent an accommodation letter to the USAID Mission Director commending the work done by USAID and the EPIQ team in helping to complete Tranche III benchmark activities.

USAID extended EPIQ through June 2000 in accordance with the Task Order option clause.

APRP was extended an additional 27 months from 30 June, 2000 until 30 September, 2002. IRG received a request for proposal for the 27 month APRP extension period. The proposal will be submitted to USAID in January 2000.

HE Minister MWRI, Dr. Abu Zeid, was reappointed as Minister in October 1999.

The official name of the Ministry of Public Works and Water Resources was changed to Ministry of Water Resources and Irrigation.

Eng Mahmoud Mabrouk replaced Dr. Craig Anderson as EPIQ WPRP project Officer in October. Dr. Craig Anderson continued as head of the APRP Water Group.

Two of the USAID APRP water group TA units, Telemetry and GreenCom, completed their contracts. It is expected some of their follow-up activities related to water policy will be taken up by EPIQ.

IV. STAFF LEVEL OF EFFORT

The EPIQ resident team has a technical consulting staff of nine people and an administrative support staff of seven people. The resident technical team includes water resource engineers, irrigation engineers, sociologist and economists. Short-term expatriate and local Egyptian TA are used to support the team. The staff level of effort through December 1999 for EPIQ is presented in Appendix E.

Several short-term expatriate specialists helped support the EPIQ/WPAU activities during 1999. Dr. Larry King (expatriate groundwater management specialist), Dr. Ramchand Oad (water policy monitoring specialist), Victor Kimm (expatriate environmental specialist) Dr. John Wilkins-Wells (cost sharing specialist), and Dr. Frank Hanigan (water policy information specialist).

Resident Staff

Name	Position
<i>Expatriate</i>	
Dr. Jeff Fredericks	Chief of Party
Greg Olson	Administrative Officer
Dr. Zhongping Zhu	Senior Water Resources Engineer
Dr. John Keith	Senior Water Economist
Dr. Robert Cardinalli	Senior Sociologist
<i>Local Egyptian</i>	
Dr. Ahmed Fakhry Khattab	Co-Team Leader
Dr. Ibrahim Ellassiouti	Senior Water Resources Mgmt. Specialist
Dr. El-Sayed Mahdy	Economist
Eng. Ragab Abdel Azim	Drainage Engineer
<i>Local Admin Staff</i>	
Foaz El Mona Fouad	Executive secretary
Amira Serry	Technical secretary
Mona Zakhary	Admin secretary
Kalid Mokhtar	Teaboy
Akmed Mahmoud	Teaboy
Saeed Maebed	Driver
Adel Moustafa	Driver

1. V. STATUS OF FINANCES AND EXPENDITURES

Financial summary for 1999 (January - December 1999)

	Itemized Budget	Prior Claimed	Current Claim	Claims to Date	Remaining Balance	Budget Claimed
Direct Labor	\$5,269,975	\$1,835,879	\$1,515,689	\$3,351,568	\$1,918,407	64%
Travel and Transportation	\$448,658	\$141,307	\$52,500	\$193,807	\$254,851	43%
Per Diem	\$221,277	\$77,948	\$80,451	\$158,399	\$62,878	72%
Allowances	\$881,375	\$422,529	\$265,324	\$687,853	\$193,522	78%
Other Direct Costs	\$1,177,769	\$559,189	\$320,934	\$880,122	\$297,647	75%
Total	\$7,999,054	\$3,036,851	\$2,234,898	\$5,271,749	\$2,727,305	66%

Source: IRG Invoice #19 and #31

VI. 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 Management	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
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 (Final Draft)	December 1999
27	Review of the Agricultural Sector Model of Egypt (ASME97): 1999 Version (Final Draft)	December 1999

Appendix A: APRP Water Policy Tranche III Benchmark Work Plan Summary Matrix

Benchmarks	Task Leader(s)	Supporting Team Members	MPWWR Partners	Potential Short Term TA Needs		APRP Partners	Non-TA Cost Estimate
				Local	Expatriate		
C.1: Main System Management Program Utilization	S. Abou Zeid (MSM)	A. Tczap (MSM)	Irrigation Dept.	Irrigation Specialist	Irrig. Opn Spec.	WPAU MVE	LE 601,000
C.2: Free Flowing Groundwater Management	T. Ley (EPIQ)	S. Nour , A. Khattab (EPIQ) S. Fahmy,T. Nada (WPAU)	Irrigation Sector RIGW IAS WCU	GW Specialist Sociologist Field Msmt Team (1)	GW Mgmt. Spec.	Greencom MVE	Water Monitoring: LE 30,300
C.3: Branch Canal Water User Organizations	R. Cardinalli (EPIQ)	J. Keith, I. Ellassiouti (EPIQ) N. Ezzat, Eng. Moemen, Eng. Amira (WPAU)	IIS/IAS Action Team	Irrig Partic. Spec. Field Agents (6)	Cost Sharing Spec.	Greencom RDI MVE	\$205,800
C.4: Irrigation Advisory and Support Service	R. Cardinalli (EPIQ)		IAS IIS WCU	Irrig Partic. Spec. Institutional Spec.		Greencom MVE	\$ 130,000
C.5: Sugarcane Water Use Policies	J. Keith (EPIQ)	S. Mahdy, T. Ley (EPIQ) N. Ezzat, Eng. T. Nada (WPAU)	Central Dir. for Water Dist./Irrig. Dept. WCU	Irrig Mngt Spec. Field Meas Teams (2-3)		Sugar Cane Work Group MVE Greencom	Water Monitoring: LE 56,300/canal On-Farm Impr. (MALR, SCC, etc.): LE 3.8 million Canal Maintenance: (MPWWR) Aswan Gov't:-TBD
C.6: Rice Water Use Policies	J. Keith (EPIQ)	S. Mahdy, T. Ley (EPIQ) S. Fahmy, M. El Margoshy (WPAU)	Central Dir. For Water Dist./Irrig. Dept. WCU	Irrig Mngt Spec. Field Meas. Teams (5-6 districts)		Rice Work Group MVE Greencom	Water Monitoring: LE 57,750/district Rice seed to be provided by MALR
C.7: Intermediate Drain Water Reuse	Z. Zhu (EPIQ)	R. Abdel Azim, A. Khattab, I. Ellassiouti, S. Mahdy (EPIQ) S. Fahmy, T. Nada, M. Hamed (WPAU)	Salhia & Sharkia Directorates Abou Hammad District, Tanta Water Dist. Directorate, DRI	Irrig Mngt Spec. Field Meas.Teams (2) Environ. Spec. Sociologist		Greencom MVE	Water Monitoring: LE 36,000
C.8: Water Quality Regulation--Law 48	N. Ezzat (WPAU)	Elassiouti, Z. Zhu (EPIQ) Amira (WPAU)	Irrigation Dept.	Environ Spec Legal Spec.	Environ. Spec.	MVE	

Appendix B: Tranche IV Water Policy Benchmark Work Plan Summary Matrix

Benchmarks	Task Leader(s)	Supporting Team Members	Partners			Short Term TA Needs (Phase I)		Non-TA Activities (Phase I)		
			MPWWR	APRP	Others	Local	Expatriate			
C.1 Reducing Mismatch of Irrigation Deliveries	John Keith (EPIQ) Jane Gleason (RDI)	<ul style="list-style-type: none"> El Sayed Mahdy and Abdel Azim Ragab (EPIQ) Sayed Hussein (RDI) Mahmoud Nour (PMU) Senior Irrig. Eng. (EPIQ) 	<ul style="list-style-type: none"> CDWD Directorates and Central Directorates MSM WCU IAS NWRC 	<ul style="list-style-type: none"> RDI PMU MVE WPA U EPIQ 	<ul style="list-style-type: none"> Agriculture Extension Governorate-level Agri Admin. ARC Cooperatives Farmers 	15 pm total:	<ul style="list-style-type: none"> Irrigation management specialist (6 pm) Water management team (3 pm) Irrigation data analysis specialist (6 pm) 	<ul style="list-style-type: none"> Study tour (subject to availability of DT2 funding) 12 working group field trips 12 EPIQ Trips to pilot areas 12 trips for water measurements personnel 1 technical seminars 4 seminars for local MALR and MPWWR personnel 1 implementation Seminar 		
C.2 Urban Wastewater and Drainage Reuse	Zhongping Zhu (EPIQ)	<ul style="list-style-type: none"> Fahry Khattab, Ibrahim Elassiouti, and John Keith (EPIQ) 	<ul style="list-style-type: none"> EPADP Dakahlia Directorate, and NWRC 	<ul style="list-style-type: none"> MVE WPA U EPIQ 	<ul style="list-style-type: none"> NOPWAS D MHP MALR MEA 	10 pm total:	<ul style="list-style-type: none"> Water policy spec. (2 pm) Wastewater treatment specialist (2 pm) Afforestation specialist (1 pm) Pub. health scientist (1 pm) Environ. Law specialist (1 pm) Water quality specialist (3 pm) 	4 pm total:	<ul style="list-style-type: none"> Wastewater irrigation specialist (2 pm) Environmental law specialist (2 pm) 	<ul style="list-style-type: none"> 12 field trips 2 discussion workshops 2 training workshops 3 effluent sampling and lab test 30 digital maps Study tour (subject to availability of DT2 funding)
C.3 Water Management at the Directorate Level	Sarwat Fahmy (WPAU)	<ul style="list-style-type: none"> Soliman Abu-zeid, Amr 	<ul style="list-style-type: none"> Irrigation Dept. 	<ul style="list-style-type: none"> WPA U 		8 pm total	1.5 pm total	<ul style="list-style-type: none"> 1,000 flow measurements (LE 150,000) 		

Benchmarks	Task Leader(s)	Supporting Team Members	Partners			Short Term TA Needs (Phase I)		Non-TA Activities (Phase I)
			MPWWR	APRP	Others	Local	Expatriate	
		Hafez and Alaa Hassan(MSM)	<ul style="list-style-type: none"> MSM Sharkia and Qena Directorates 	<ul style="list-style-type: none"> EPIQ MVE 		<ul style="list-style-type: none"> Telemetry specialist (2 pm) Software specialist (1 pm) Water management specialist (5 pm) 	<ul style="list-style-type: none"> Irrig Op Spec (1.5 pm) 	<ul style="list-style-type: none"> 4 training classes 3 workshops 24 eng team trips 4 mgnt team trips 2 software team trips 3 verification team trips Replacement parts (LE 20000)
C.4 Irrigation Management Transfer	Robert Cardinalli (EPIQ)	<ul style="list-style-type: none"> John Keith and Ibrahim Elassiouti (EPIQ) Nasser Ezzat (WPAU), and Senior Irrig. Eng. (EPIQ) 	<ul style="list-style-type: none"> Steering Committee IMT Task Force Irrigation Dept. IAS IIS Groundwater HEPS MED NWRC WCU EPADP 	<ul style="list-style-type: none"> RDI MVE WPA U EPIQ 	<ul style="list-style-type: none"> ACU (DDC) UNDP IFAD World Bank IDRC JICA G of Neth. KfW G of Italy 	17 pm total: <ul style="list-style-type: none"> PIM specialist (4 pm) Inst. Development specialist (4 pm) Consultants for studies (9 pm) 	5.5 pm total: <ul style="list-style-type: none"> O&M specialist (2 pm) Finance & budget specialist (1.5 pm) IMT specialist (2 pm) 	<ul style="list-style-type: none"> 2 int'l study tours (subject to availability of DT2 funding) 1 visioning workshop 4 seminars 8 focus group meetings 6 coordination meetings 12 field trips
C.5 Revision of Law 12	Sarwat Fahmy and Nser Ezzat (WPAU)	Ibrahim Elassiouti (EPIQ) Senior Irrig. Eng (EPIQ)	<ul style="list-style-type: none"> Irrigation dept. EPADP Central directorate of water distribution Central directorate of groundwater IIS IAS Survey Authority 	<ul style="list-style-type: none"> MVE WPA U EPIQ 	<ul style="list-style-type: none"> MALR MHUUC MHP MIMW MEA MI Local authorities in governorates Agr. and Irrig. Committee of People's Assembly 	5.5 pm total: <ul style="list-style-type: none"> Senior irrig eng. (3 pm) Senior drainage eng. (1 pm) Legal advisor (1.5 pm) 	2 pm total: <ul style="list-style-type: none"> Inst. specialist (2 pm) 	<ul style="list-style-type: none"> 2 workshops 5 focus group meetings

Appendix C: EPIQ Sponsored Workshops

Topic	Date	Location	Purpose	Participants
2. Tranche III Benchmarks				
Coordination	June 11-12	Sharm El Sheik	Tranche III Water Policy Benchmark Final Workshop. Presented proposed strategies and policy recommendations for the Tranche III water benchmark activities to the MWRI Steering Committee.	H.E. Minister MWRI, MWRI Steering Committee, USAID, WPAU staff, representatives from the APRP TA teams, and the EPIQ TA team.
C.2: Free Flowing Groundwater Management	Mar 8	Farafra	Discussed problems facing the water users and the issue of initiation Groundwater Users Union in EL-Farafra Oasis	40 water users; MWRI staff, WCU, EPIQ, Mayor
	May 12-14	El-Kharga, El-Farafra Oases	Groundwater User Union official registration and ceremony	J. Fredericks (EPIQ) L. King (EPIQ) S. Nour (EPIQ) Morsi Fawzy (MVE) R. Abu El-Nour (EPIQ) M. Raafat (NV Governorate) N. El-Shazly (NV MWRI) WCU

Topic	Date	Location	Purpose	Participants
				Film Team + 15 members of WUUs
C.3: Branch Canal Water User Organizations	Jan 9-12	Tanta	Monitoring and Evaluation and Participatory Rural Appraisal training for District Engineers, and IIS and IAS engineers	25 participants, Dr. Fouad Abdalla, (EPIQ facilitator), Eng. Ramsis (MWRI), R. Cardinalli (EPIQ)
	Jan 25-26	Tanta	Monitoring and Evaluation and Participatory Rural Appraisal training for District Engineers, and IIS and IAS engineers	25 participants, Dr. Fouad Abdalla, (EPIQ facilitator), R. Cardinalli (EPIQ)
	Feb 2	Cairo	IIE/DT-2 Orientation Training for Action Team Study Tour	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi (MWRI) Eng. Ramsis Bakhoum (MWRI) Eng. Essam Barakat (MWRI) Dr. M. Hegazi & Dr. S. Badran, MALR Other MWRI Action Team Members
	Feb 8	Bahr el Dharam, Sanafa	First BCWUA Organizing Meeting with farmers to organize BCWUA	Dist. Engineer & IAS team, 64 water users
	Feb 12-28	Colorado State University, USA	Federating Water User Associations	11 participants, Dr. R. Cardinalli (EPIQ), MWRI Action Team on Participatory Irrigation Management
	Feb 14	Qemry Canal, Fath Allah	First BCWUA Organizing Meeting with farmers to organize BCWUA	Dist. Engineer & IAS team 78 water users
	Feb 21	Balaqtar Canal	First BCWUA Organizing Meeting with farmers to organize BCWUA	Dist. Engineer & IAS team 81 water users

Topic	Date	Location	Purpose	Participants
	May 8-13	Tanta	Monitoring and Evaluation and Participatory Rural Appraisal training for IIS and IAS field agents.	25 participants, Dr. Fouad Abdalla, (EPIQ facilitator), R. Cardinalli (EPIQ)
C.5: Sugarcane Water Use Policies	Feb 9	Luxor	Sugar Cane Pilot and training program for MWRI staff.	Sugar Cane Working Group, Eng. Abou Krishna (MWRI), Eng. Mourad (Sugar Factory)
C.6: Rice Water Use Policies	Mar 11-13	MWRI Training Center, 6th Oct City	Rice pilot program orientation	MWRI irrigation sector staff from each of the 6 governorates (District Engineers and Under-Secretaries) and from the national staff. MALR and MWRI personnel, EPIQ
	Aug 27-28	MWRI Training Center, 6th Oct City	Workshop on water measurement and monitoring	Dr. J. Keith (EPIQ) Dr. Mahdy (EPIQ) Eng. Ragab (EPIQ) Dr. J. Fredericks (EPIQ) Eng. Ali Morsi Butt (MWRI) Eng. H. Elwan (MWRI) General directors, head of water sections and district engineers from six rice pilot directorates
	Nov 23	MWRI Training Center, 6th Oct City	Workshop to present findings on rice water monitoring program.	Eng. Abdel-Monem Shalaby, Head, Irrigation Sector; Eng. Hussein Elwan, Head, Central Directorate for Water Distribution; EPIQ rice monitoring team (Dr. John Keith, Dr. Elsayed Mahdy and Eng. Ragab

Topic	Date	Location	Purpose	Participants
				Azim), Dr. Ramshand Oad, Consultant, Colorado State University; MWRI representatives from each of the 6 governorates (general directors, head of water section, district engineer) involved in the rice pilot activities.
C.7: Intermediate Drain Water Reuse	Feb 10-11	Abou Hammad; Ismailia	Workshop to survey the reactions of farmers and local irrigation engineers to intermediate reuse development	40 farmers and 10 local officials including MWRI under secretary and city council chairman
	25-27 May	Abou Hammad	<ol style="list-style-type: none"> 1. Training local engineers on intermediate reuse operation schedules, and 2. Conducting pump test at Elazzazi Drain Pump Station. 	<p>Dr. Zhu, Eng. Ragab, and Dr. Fredericks of EPIQ, Eng. Mohamed of WPAU, and Eng. Elwan of Irrigation Sector.</p> <p>Abou Hammad engineers and technicians including: Mohamed Abdalla, Reda Mahdi, Sayed Mansour, Foad Elzwahri, Elsayed Khalil, Mohamed Anwar Hemdan, Nabil Soielman, Abdel-Monem Osman, Torki Elsayed Farah, and Gamal Helmi.</p>
C.8: Water Quality Regulation--Law 48	Mar 2	MWRI, Cairo	“Water Pollution Control Activities in United States”.	representatives from the Law 48 interministerial committee, USAID, WPAU and EPIQ staff.
	May 3	Conrad International Hotel, Cairo	Discussed the proposed amendments and review of Law 48 and its by-laws.	Representatives from USAID and the Ministries of Agriculture and Land

Topic	Date	Location	Purpose	Participants
				Reclamation, Health and Population, Environment, Housing and New Communities, Industry and Public Works and Water Resources
3. Tranche IV Benchmarks				
Coordination	Mar 23	MWRI, Cairo	APRP Tranche IV Water Policy Benchmark Development Workshop to discuss the draft Tranche IV Water Policy Benchmarks	Ag Policy division staff, Eng. Shalaby (APRP MWRI PPC member/ MWRI First Deputy Minister), Eng. Gamil (Chairman USAID APRP MWRI Steering Committee), EPIQ TA Team, and representatives from WPAU, MSM, RDI, MVE, and Greencom/WCU attended. Steve Joyce (RDI) and Wilma Gromley (RDI) were the facilitators for the workshop.
	Sept 13-14	Port Said	Tranche IV Water Policy Planning Retreat	Eng. Mabrouk (USAID), WPAU TA team, EPIQ TA team
	Oct 29-30	Alexandria	Tranche IV Water Policy Benchmark Implementation Workshop	HE Minister Dr. Abu Zeid (MWRI); Steering Committee; USAID water group; WPAU; EPIQ TA team; representatives from APRP TA teams.
C.1 Reducing Mismatch of Irrigation	Sept 20-21	Flamenco Hotel, Cairo	Development of the Reducing Mismatching Benchmark. (co-sponsored	30 participants; Eng. Ali Morsey Butt (MWRI), Eng. Elwan (MWRI),

Topic	Date	Location	Purpose	Participants
Deliveries			by RDI)	Mr. Nour (PMU), Dr. Fawzi Naeem (MALR), under secretaries and general directors from MALR and MWRI for Sharkaya, Beheira, Beni Seuf and Qena/Luxor governorates, representatives from the APRP EPIQ, RDI, PMU, and MVE TA teams
	Dec 5-6	Pyramisa Hotel,Cairo	Second workshop for the development of the benchmark on reducing mismatching.(co-sponsored by RDI)	40 participants; Eng. Ali Morsey Butt (MWRI); Eng. Elwan (MWRI); Mr. Nour (PMU); Dr. Fawzi Naeem (MALR); under secretaries and general directors from MALR and MWRI for Sharkaya, Beheira, Beni Seuf and Qena/Luxor governorates; and representatives from the APRP EPIQ, RDI, PMU, and MVE TA teams.
C.2 Urban Wastewater and Drainage Reuse	Dec 14	Pyramisa Hotel, Cairo	Introduce proposed members of the interministerial work group and discuss the work plan. (co-sponsored by RDI)	Representatives from MWRI, MALR, NOPWASD, MOHP, and MEA.

Appendix D: IMPORTANT TRIPS, VISITS AND MEETINGS

DATE	LOCATION	PURPOSE	PARTICIPANTS
Weekly	APRP Dokki/ MWRI	APRP Coordination Meeting	USAID; APRP TA Teams
Biweekly	EPIQ offices	Rice water monitoring data collection	MWRI personnel from 6 demonstration canals
Jan 5	Field Crops Research Institute (FCRI)	Plan for 1999 Rice Campaign	Rice Working Group (RWG)
Jan 6	Abou Hammad	Collect data of cropping patterns	Dr. Mahdy & Eng. Ragab (EPIQ), Engs. Reda Mahdi, Sayed Mansour, Mosa Ibrahim Attia, Fathi Elsayed Ali of Ahou Hammad district office, land holding dept, agricultural affair dept, and water works.
Jan 9-12	Tanta	Training Course in PRA and Communications	Dr. R. Cardinalli (EPIQ) Eng. Ramsis Bakhoum (MWRI) IAS/IIS Officers
Jan 10-12	Dakhalia, Damietta, Sharkia Governorates	Identify demonstration canals for rice benchmark activities	Mahdy (EPIQ) Ley (EPIQ) Elwan (MWRI)
Jan 16-17	Beheira, Kafr El Sheikh, Gharbai Gov.	Identify demonstration canals for rice activities	Dr. Mahdy (EPIQ) Dr. T. Ley (EPIQ) Eng. Elwan (MWRI)
Jan 25	APRP	Discuss fund availability for sugar cane irrigation improvement activities	Sugar Cane Working Group (SCWG)
Jan 25-26	Tanta	Training Course – lecture presentations on PRA	Dr. R. Cardinalli (EPIQ) Dr. Fouad (EPIQ)
Jan 26	Abou Hammad	Field environmental investigation	Drs. Samia (EPIQ) and Ellassiouty and Eng. Ragab (EPIQ), Abou Hammad district engineers.
Jan 27	USAID	Project Vehicle Use	D. Barth (USAID) C. Anderson (USAID) E. Corbin (EPIQ) J. Fredericks (EPIQ) T. Burolla (EPIQ)
Feb 2	Cairo	IIE/DT-2 Orientation Training for Action Team Study Tour	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi (MWRI) Eng. Ramsis Bakhoum (MWRI)

DATE	LOCATION	PURPOSE	PARTICIPANTS
			Eng. Essam Barakat (MWRI) Dr. M. Hegazi & Dr. S. Badran, MALR Other MWRI Action Team Members
Feb 4	FCRI	Plan for national and village extension training for rice activities	Rice Working Group
Feb 7	APRP	Review sugar cane progress	SCWG
Feb 7	Delta Barrage	Dutch Advisory Panel Coordiantaion Meeting	Eng. Shalaby(MWRI) Dr. Bayoumi (MWRI) Dr. Samia (MWRI) Dr. Hossam Fahmy (MWRI) K. Veemingen (NWRP) Dr. J. Fredericks (EPIQ)
Feb 8	APRP	PPC Meeting	PPC, USAID Ag Policy team, APRP TA COPs
Feb 8	Bahr el Dharam, Sanafa	First BCWUA Organizing Meeting farmers to organize BCWUA	Dist. Engineer & IAS team 64 water users
Feb 8	Zagzig and Abou Hammad	Arranging the focusing group workshop	Dr. Ellassiouty and Tom Burola (EPIQ), local officials at Shakia Directorate and Abou Hammad district.
Feb 9	Luxor	Sugar Cane Pilot and training planning meeting	SCWG; Eng. Abou Krisha (MWRI), Eng. Mourad (Sugar Factory)
Feb 11	Cairo	IIE/DT-2 Orientation for Action Team on Action Plan prepration	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi (MWRI) Eng. Ramsis Bakhoum (MWRI) Eng. Essam Barakat (MWRI) Dr. M. Hegazi & Dr. S. Badran, MALR Other MWRI Action Team Members
Feb 10-11	Abou Hammad and Ismalia	Focusing group workshop of social, economic and environmental survey	8 EPIQ team members, and more than 40 farmers and 10 local officials including Under Secretary and city

DATE	LOCATION	PURPOSE	PARTICIPANTS
			council chairman participated the workshop.
Feb 12-28	Fort Collins, Colorado USA	Study Tour on “Federating Water User Associations”	Dr. R. Cardinalli (EPIQ) MWRI Action Team on Participatory Irrigation Management
Feb 14	Qemry Canal, Fath Allah	First BCWUA Organizing Meeting with farmers to organize BCWUA	Dist. Engineer & IAS team 78 water users
Feb 16	EPIQ	Visit by IRG Contracts Manager	J. Webb(IRG Contracts Manager) J. Fredericks (EPIQ) T. Burolla (EPIQ)
Feb 16	MWRI	Review problems with the ASME and assign tasks	ASME Subcommittee (ASMESC)*
Feb 20	Sakha, Kafr El Shiekh	National extension personnel and MWRI governorate personnel training on the short duration variety “package.” There were 8 sessions held from 20 to 28 Feb, which were attended by various members of the RWG	Keith, Tantawi (RWG), Rizk (RRTC), 4 MWRI governorate and district staff, 20 national rice ext. staff
Feb 21	Balaqtar Canal	First BCWUA Organizing Meeting with farmers to organize BCWUA	Dist. Engineer & IAS team 81 water users
Feb 23	EPIQ	Project Briefing	K. Baum (USAID/EPIQ) J. Wilson (USAID) C. Anderson (USAID) Eng. Gamil (WPAU) EPIQ TA team
Feb. 25	Environmental Monitoring and Occupational Health Center, Imbaba, Giza	Discuss constraints facing the enforcement of Law 48/1982 and Ministry of Health and Population (MHP) perception on water quality standards.	Dr. Ragaa Yossef, MHP EPIQ Law 48 group: <ul style="list-style-type: none"> • Dr. Fatma El-Gohary • Mr. Victor Kimm • Dr. Ibrahim Ellassiouty
Feb. 25	National Organization for Potable Water and Sanitary Drainage (NOPWASD), Mohandessin	Wastewater treatment status and future plans.	From (NOPWASD): <ul style="list-style-type: none"> • Eng. M. Sirngawi, Chairman • Eng. Abdel Hamid Shayeb • Eng. Samira Nicola

DATE	LOCATION	PURPOSE	PARTICIPANTS
Feb. 28	Egyptian Environment Affairs Agency (EEAA), Maadi, Cairo	Discuss the environmental compliance and enforcement program.	From (EEAA): <ul style="list-style-type: none"> • Dr. Yasser Sherif • Dr. Ahmed Hamza EPIQ Law 48 Group
Mar 1	Mansoura	Investigating the norther Bahr Bagar drainage development	Drs. Zhu and Khattab, and Eng. Ragab (EPIQ), Eng. Rashad Romech (Under Secretary), Abd El Monen Said (Director of Salam Canal), Edressi Ismail (M&E director), and Zaneib El Raies (Salam inspector)
Mar 1	APRP	Review of status of sugar cane improved irrigation installation	SCWG
Mar 2	Ministry of Public Works and Water Resources, Imbaba	Inter-ministerial Committee meeting. Presentation by Mr. Victor Kimm on the approach to Water Quality Management in USA.	USAID/MWRI/WPAU/EPIQ/APRP/MHP/EEAA/NOPWASD
Mar 3	General Organization of Industry (GOFI)	Discuss Industrial Wastewater Action Plan.	Eng. Galal Ghorab (GOFI) EPIQ Law 48 Group
Mar 4	FCRI	Schedule village extension and farmer orientation meetings	RWG
Mar 7-9	El-Farafra Oasis	Visiting the Free-Flowing GW study area for planning and establishment of GW User Union, Tranche III – C.2 Benchmark	Eng. Nagati (New Valley Irrigation Dept.) Dr. Cardinalli (EPIQ) Eng. Abou El-Nour (EPIQ) Eng. Hamed (WPAU) Dr. Raafat (El-Farafra Mayor)
Mar 7 – 9	Farafra Oasis, Western Desert	Preparation Meetings for formation of Groundwater Water User Unions	Dr. R. Cardinalli (EPIQ) Eng. A. Abou El Nour (EPIQ) Eng. Nagaty (MWRI)
Mar 10	MWRI	Review task reports from members. Identify specific focus for subcommittee work	ASMESC
Mar 11	Cairo	IIE/DT-2 Action Team Study Tour Re-Entry Seminar	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi (MWRI) Eng. Ramsis Bakhoum (MWRI)

DATE	LOCATION	PURPOSE	PARTICIPANTS
			Eng. Essam Barakat (MWRI) Dr. M. Hegazi & Dr. S. Badran, MALR Other MWRI Action Team Members
Mar 11-13	6 th October City (MWRI Tng. Center)	Water measurement training workshop for rice activity	RWG - MWRI Distribution Center staff, MWRI personnel from 6 governorates, Eng. Ragab (EPIQ) Dr. Oad (EPIQ)
Mar 15-16	MALR Governorate offices, Kafr El Shiekh, Damietta	Village extension training for short duration rice demonstrations	Dr. Mahdy (EPIQ), Dr. Rizk (RRTC), 20+ village extension personnel, District water engineers
Mar 15-16	Luxor	Site visits to pilot areas and canals	SCWG + Dr. Oad (EPIQ), Abou Krisha (MWRI), local MALR personnel
Mar 20	Dakhalia Governorate	Attend farmer orientation meetings for short duration rice demonstrations	Dr. Keith (EPIQ), Dr. Tantawi (FCRI), Dr. Rizk (RRTC), national and village rice extension personnel; 5 meetings with 20+ farmers per meeting
Mar 21-22	Port Said	APRP Tranche IV non-water policy benchmark development workshop	USAID Ag Policy Team APRP TA units
Mar 21-22, 25	Garbia, Kafr El Shiekh, Sharkia Governorates	Attend farmer orientation meetings for short duration rice demonstrations	Dr. Mahdy (EPIQ), Dr. Tantawi (FCRI), Dr. Rizk (RRTC), national and village rice extension personnel; 3-5 meetings with 20+ farmers per meeting
Mar 22	Abou Hammad	Investigating environmental impact with local doctors	Dr. Samia (EPIQ), Eng. Ragab (EPIQ), and local doctors.
Mar 22-25	El-Farafra Oasis	Visiting and follow-up of Tranche III – C. 2 Benchmark activity.	Eng. Nagati (NVID) Dr. L. King (EPIQ) Eng. S. Nour (EPIQ) Dr. Raafat (Farafra Mayor)
Mar 23	MWRI	APRP Tranche IV water policy benchmark development workshop	Eng Shalaby (MWRI) USAID Ag Policy team Eng. Gamil (MWRI) EPIQ TA team

DATE	LOCATION	PURPOSE	PARTICIPANTS
			WPAU, WCU/Greencom, MSM, PMU, RDI, MVE APRP TA team representatives.
Mar 24	Abou Hamad	Review and Cross-Check of Drainage Reuse Focus Group Data	Dr. Mohammad Mohiedin (EPIQ)
1 April	MWRI / Cairo	Farafra Water User Union Coordination Meeting	Dr. R. Cardinalli, STTA Aboul el Nour, Eng. Saleh Nour
4-7 April	El-Kharga, El-Dakhla, El-Farafra Oases	Visiting several well sites (pumped and flowing wells) and following-up Tranche III C.2 B.M activities (well discharge measurements, irrigation-drainage practices, economic aids, ---)	M. Ibrahim (MWRI undersecretary for Western Desert) A. Nagati, (NVWRRD) L. King (EPIQ) S. Nour (EPIQ) J. Keith (EPIQ) M. Raafat (NV Governorate) M. Desouky (NV PBDAC) A. Abdel Hafeez (NV AG Dept.)
5 April	MWRI / Cairo	Meeting of MWRI Action Team on Participatory Irrigation Management	Dr. R. Cardinalli, Eng. Ramsis Bakhoum, Eng. Essam Barakat, Eng. Hussein el Atfy, et.al.
5-8 April	Farafra Oasis	Review free-flowing groundwater area and determine socioeconomic support availability	Keith, King, Khatlab, Nour
6 April	MWRI/ Cairo	Meeting with Minister, MWRI	Dr. Abou Zeid, Minister (MWRI) R. Cobb (Winrock) C. Anderson (USAID) Eng. Gamil (WPAU) J. Fredericks (EPIQ)
8 April	FCRI	Discuss problems in funding and review the national rice plan	Mahdy, Keith, Elwan, Tantawi, Gleason
10 April	Movenpick Hotel / Cairo	Participation on MWRI/Dutch APP Project Conference on Farmer Participation in Irrigation Management (Paper presented by EPIQ Sr. Sociologist)	MWRI Minister & Senior Officials, Dr. R. Cardinalli, Eng. Essam Barakat, et.al.

DATE	LOCATION	PURPOSE	PARTICIPANTS
11 April	Abou Hammad	Drainage Reuse Gender Survey	Dr. Samia Galal
13 April	MWRI	Review livestock sector of ASME	Keith, Ali (MALR)
13-15 April	Luxor, Qena	Review progress on the implementation of gated pipe; attend farmer meetings	Sugar Cane Working Group (SCWG) + Abou Krisha (MWRI), Eng. Mourad (Sugar Factory)
13-15 April	Luxor	Meetings for organizing BCWUA at Qemri Canal	Dr. R. Cardinalli, STTA Eng. Essam Barakat, Eng. Abdallah Doma, Qena Undersecretary of Irrigation, District Engineer
13-16 April	Farafra Oasis	Organizing of Groundwater User Unions	STTA Eng. Abou El Nour, STTA Eng. Negati
14 April	Abou Hammad	1. Arranging the intermediate reuse pump test, and 2. Investigating the reuse potential in Fakous and three other neighboring irrigation districts in the middle Bahr Bagar basin.	Dr. Khattab and Eng. Ragab of EPIQ.
18 April	MWRI / Cairo	Review of Farafra Groundwater WUU formation process	Dr. R. Cardinalli, Eng. Saleh Nour, STTA Abou el Nour
19 April	MWRI / Cairo	MWRI Action Team on Participatory Irrigation Management meeting	Dr. R. Cardinali, and Action Team members from MWRI and MALR
22 April	USAID/ Cairo	Antiquities and Ground Water	M. Silverman (USAID) C. Anderson (USAID) Dr. Wadie (USAID) J. Fredericks (EPIQ)
26-30 April	Farafra Oasis	Organizing of Groundwater User Unions	STTA Eng. Abou el Nour and Eng. Negati
28-29 April	Gharbia Kafr Elsheikh Beheira	Installing Automatic Recorders	Sanaa, Amr Hafez, Adel and directorates' Engineers
4 – 5 May	Zagazig & Mansoura	Meetings Regarding BCWUA O&M Cost-sharing planning process	Dr. R. Cardinalli, STTA Dr. J. Wilkins-Wells, STTA Eng. Essam Barakat, Eng. Abdallah Doma, Under-Secretaries Irrigation Department

DATE	LOCATION	PURPOSE	PARTICIPANTS
			(Dakhalaiya and Sharkaiya Governorates) and staff.
4-5 May	East Dakahlia Damietta Sharkia	Installing Automatic Recorders	Sanaa Adel and directorates' Engineers
6 May	USAID/ Cairo	V. Kimm Briefing on Environment Compliance Plans	V. Kimm (EPIQ) A. Davis and Env. Staff (USAID) C. Anderson (USAID) Dr. Wadie (USAID) Eng. Mabrouk (USAID) J. Fredericks (EPIQ)
8-13 May	Tanta	EPIQ / IIE-DT-2 sponsored training workshop on Participatory Irrigation Management and monitoring and evaluation process.	Dr. R. Cardinalli (EPIQ) Dr. H. El Atfi (MWRI) Eng. Ramsis Bakhoun (MWRI) Eng. Essam Barakat STTA Dr. Fouad Abdallah, Eng. Abdallah Doma, 25 IAS and IIP field agents
10 May	MWRI/ Cairo	Visit by Asif Sheikh	A. Sheikh (Pres IRG) Eng. Gamil (WPAU) EPIQ Team
12-14 May	El-Kharga, El-Farafra Oases	Complete the certification of the WUUs at wells West Qasr El-Farafra #7, 16 and 18 and attended the ceremony for certificates handing over.	J. Fredericks (EPIQ) L. King (EPIQ) S. Nour (EPIQ) Morsi Fawzy (MVE) R. Abu El-Nour (EPIQ) M. Raafat (NV Governorate) N. El-Shazly (NV MWRI) WCU Film Team + 15 members of WUUs
12-14 May	Farafra Oasis	Groundwater User Union official registration and ceremony	Dr. J. Fredericks, STTA Eng. Abou el Nour, Eng. Negati, WUU members of Wells No. 7, 16 & 18
12-14 May	Gharbia Kafr Elsheikh Beheira East Dakahlia Damietta Sharkia	To check the status of the installed Automatic Recorders and to establish the flow measurement program	Eng. Elwan
16 May	APRP/ Cairo	PPC Meeting	PPC USAID Ag Policy Team APRP TA COPs
25-27 May	Abou Hammad	3. Training local engineers	Dr. Zhu, Eng. Ragab, and

DATE	LOCATION	PURPOSE	PARTICIPANTS
		on intermediate reuse operation schedules, and 4. Conducting pump test at Elazzazi Drain Pump Station.	Dr. Fredericks of EPIQ, Eng. Mohamed of WPAU, and Eng. Elwan of Irrigation Sector. Abou Hammad engineers and technicians including: Mohamed Abdalla, Reda Mahdi, Sayed Mansour, Foad Elzwahri, Elsayed Khalil, Mohamed Anwar Hemdan, Nabil Soielman, Abdel-Monem Osman, Torki Elsayed Farah, and Gamal Helmi.
26-27 May	Mansoura / Zagazig	BCWUA Cost-sharing Planning Focus Group Workshops	Dr. R. Cardinalli, STTA Dr. J. Wilkins-Wells, Eng. Essam Barakat, IAS Staff, Under-Secretaries of Irrigation Department for Dakhalaiya and Sharkaiya Governorates, District staff of Irrigation Department
31 May	MWRI / Cairo	Meeting with Dr. Lotfi Nasr, NWRC	Dr. R Cardinalli, STTA Dr. J. Wilkins-Wells, Eng. Essam Barakat
31 May – 1 June	Luxor, Qena	Review progress on implementation of gated pipe and water monitoring	SCWG+ Abou Krisha (MWRI), Eng. Mourad (Sugar Factory)
1-3 June	Gharbia Kafr Elsheikh Beheira	To review the flow measurements and calibration works	Dr. Ramchand Oad, Eng. Elwan, Eng. Ali Morsi
2 June	USAID/ Cairo	SO1 Quarterly Meeting	R. Brown (Mission Director) T. Christiansen-Wagner (Dep. Director) D. Delgado (A. SO1) C. Anderson (A. Ag. Policy) SO1 COPs
3 June	MWRI / Cairo	Meeting of WUA Working Group on O&M Cost-Sharing	Dr. R. Cardinalli, Dr. J. Fredericks, Eng. Nassar Ezzat, Eng. Essam Barakat, Dr. Lotfi Nasr, Eng. Abdalla Doma, Eng. Mahmoud Mabrouk (USAID)

DATE	LOCATION	PURPOSE	PARTICIPANTS
6-7 June	East Dakahlia Damietta Sharkia	To review the flow measurements and calibration works	Dr. Ramchand Oad, Eng. Sanna
7 June	Kafr EL-Sheikh & Behaira Governorates	Attending farmer's extension meetings concerning transplanting and ongoing farm operations	<u>KafrEl-Sheikh:</u> RWG, Dr. Rizk and his staff (RRTC), Director of El-Riad Ag. Admin., plus 50 ⁺ farmers. <u>Behaira:</u> RWG, Dr. Rizk and his staff (RRTC), Director of El-Mahmodia Ag. Admin., MAyor, Director of Police Dept., Director of Ag. Extension, plus 35 ⁺ farmers.
10-13 June	Sharm El Shiekh	Tranche III Workshop	EPIQ...
11-12 June	Sharm El Shiekh	Tranche III BM Workshop	HE Minister Abu Zeid (MWRI); EPIQ TA team; Steering Committee; WPAU; USAID; APRP COP's
15 June	Dakahlia Governorates and Damietta	Attending farmer's extension meetings concerning transplanting and ongoing farm operations	<u>Dakahlia:</u> Mahdy (EPIQ), Rashid Co-ordinator of Rice Work in Dahkahlia, El-Sheety & El-Shazly (RRTC), El-Isawy & Alaa (Minyet El-Nasr Ag. Adm.), Salem (Chair of Meet Tahir Ag. Co-op) plus 35 ⁺ farmers <u>Damietta:</u> Mahdy (EPIQ), Dr. Saad and Dr. Esa (National Rice Campaign), El-Noni (RRTC), El-Rayyes (Co-ordinator of Rice Wor), Abou-ElNaga (Director of Faraskour Ag. Admin.) and his staff, plus 40 ⁺ farmers.
16 June	Sharkia Governorate	Attending farmer's extension meetings concerning transplanting and ongoing farm operations	Mahdy (EPIQ), Abou El-Fetouh (head of Agri. Extension in Sharkia), Salem (Co-ordinator of

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			Rice Work), Dr. El-Kady, Dr. Alaa and El-Noni (RRTC), Hassan (Director of KAfr Sakr Ag. Adm.), Omar (Director of Abou-KAbir Ad. Adm.), 7-10 involved staff from both administrations, and 35-40 farmers.
16-17 June	Luxor, Qena	Travel with MVE personnel to evaluate Tranche III accomplishments	SCWG + Abou Krishna (MWRI), Eng. Mourad (Sugar Factory), Dr. Morsy (MVE)
28 June	MWRI / Cairo	Meeting with Dutch Water Boards Project team	Dr. R. Cardinalli, Eng. Jan Bron (CTA), Eng. Samir Osman Khereba, & Mr. William Oliemars (Farmer Organization Advisor)
30 June	MWRI	Review findings to date and assign tasks	ASME Subcommittee (ASMESC)*
July 1	MWRI / Cairo	Coordination meeting with Dutch Water Boards Project	Dr. R. Cardinalli (EPIQ) Jan Bron (Team Leader, DWBP) William Olliemanns (DWBP)
July 6	Maadi	Discussion on EPIQ PSU Project	Allen Davis (USAID) Ken Baum (USAID) J. Fredericks (EPIQ)
July 6-7	Luxor, Qena	Observe farmer meetings and review progress on sugarcane activities	Sugar Cane Working Group (SCWG)
July 8	MWRI	Introductory Meeting with Dutch Water Board Project Staff	Jan Bron (Team Leader, DWBP) J. Fredericks (EPIQ)
July 10	MWRI Office, Zagazig	Observe Rice Demonstration Area	J. Keith (EPIQ) Eng. Ragab (EPIQ) Dr. Mahdy (EPIQ)
July 12	APRP	Establish Mismatch Activities	Mismatch Working Group (MWG)
July 12- 14	Cairo	Visit by Winrock Project Director	Henk Knipscheer (Winrock) Eng. Gamil (WPAU) Dr. C. Anderson (USAID) EPIQ Team
July 19	MWRI, Beni Seuf	Discuss Mismatch Activities	Dr. J. Keith (EPIQ) Dr. Mahdy (EPIQ)

DATE	LOCATION	PURPOSE	PARTICIPANTS
			Eng. Ragab (EPIQ) Dr. J. Fredericks (EPIQ) Eng. H. Elwan (MWRI) Eng. Hasab El-Naby (Under-Sec, MWRI) and staff Kamil Abdel-Zahir (Gen. Dir. of MALR)
July 20	Zagazig	Discuss Mismatch Activities	Dr. J. Keith (EPIQ) Dr. Mahdy (EPIQ) Eng. Ragab (EPIQ) Eng. H. Elwan (MWRI) Mohamed El Warraki (Gen Dir Irrig, MWRI) Eng El-Sayed Elaiwa (Gen. Dir, MALR)
July 25-26	Luxor MWRI Office	Discuss Mismatch Activities	Dr. Mahdy (EPIQ) Eng. Ragab (EPIQ) Dr. J. Fredericks (EPIQ) Eng. H. Elwan (MWRI) Eng. Moustafa Abou Kreisha (Under-Sec, MWRI) and staff
July 26-27	Luxor, Qena	Installation of weirs, water monitoring for Sugar Cane activity	Eng. Ragab (EPIQ) Inspector & Dist Eng, Isna
July 27	MWRI	MWRI Steering Committee Meeting	Eng. Gamil (Chairman) MWRI Steering Committee Dr. C. Anderson (USAID) Dr. Wadie Fahim (USAID) Eng M. Mabrouk (USAID) Eng. Sarawat (WPAU) Eng. Nasser (WPAU) Dr. J. Fredericks (EPIQ)
July 27	NOPWASD / Cairo	Discussions on Water Quality Benchmark	Dr. I. Ellassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Eng. Magda Gaballa (NOPWASD) Eng. Mohsen Mamdouh (NOPWASD)
July 28	MWRI	Co-Ordination Committee on Water Resources Planning Projects	Eng. Shalaby (MWRI) Dr. Bayoumi (MWRI) Dr. Samia (MWRI) Dr. Hossam Fahmy (MWRI)

DATE	LOCATION	PURPOSE	PARTICIPANTS
			K. Veemingen (NWRP) Dr. J. Fredericks (EPIQ) Dr. Ahmed F. Khattab (EPIQ)
July 29	MWRI	Discuss with Eng. Ahmed Maher, Chairman of law 12 Revision Committee, the draft work plan of this benchmark	Eng. Sarwat Fahmy Eng. M. N. Ezzat (WPAU) Dr. Ibrahim Ellassiouty (EPIQ)
July 29	APRP	Discuss next steps in improved sugarcane irrigation	SCWG
Aug 2	GOFI office / Cairo	Exploration of GOFI involvement in Water Quality benchmark	Dr. I. Ellassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Eng. Mohamed Galal El Ghorab (GOFI)
Aug 3	Dutch-sponsored APP / Delta Barrage	Discuss the MWRI national pollution control master plan	Dr. I. Ellassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. Samia Gindy, (Director,APP)
Aug 4	MWRI / Cairo	Meeting with IAS re follow-up of IAS benchmark implementation	Dr. R. Cardinali (EPIQ) Eng. Essam Barakat (MWRI)
Aug 4	MWRI Office, Damenhour	Discuss Mismatch Activities	Dr. J. Keith (EPIQ) Dr. Mahdy (EPIQ) Eng. Ragab (EPIQ) Dr. J. Fredericks (EPIQ) Eng. H. Elwan (MWRI) Eng. Ghomeim (MWRI) and Staff Eng. El-Tawil (MALR)
Aug 4-5	Salaam Canal and Manzala	Visit to North Sinai Development Project Authority to investigate wastewater discharge and reuse practice for water quality benchmark	Dr. I. Ellassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. A. Khattab (EPIQ) Eng. Magdy El Khasif (Chairman, NSDP) Eng. Mohamed Shams El Din (Under-secretary, NSDP)
Aug 8	Planning Sector	Information of the national pollution control master plan for water quality benchmark	Dr. I. Ellassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. A. Khattab (EPIQ) Eng. Abdel El Rahman Shallaby (Supervisor of Minister's office, MWRI)
Aug 9	Afforestation	Discussions on water quality	Dr. I. Ellassiouti (EPIQ)

DATE	LOCATION	PURPOSE	PARTICIPANTS
	Department of MALR	benchmark	Dr. Z. Zhu (EPIQ) Dr. Mamdouh Riad (Director, Afforestation, MALR)
Aug 11-12	Mansoura	<i>Dakahlia Directorate</i> - field trip to investigate wastewater discharge and reuse practice	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. A. Khattab (EPIQ) Eng. M. Rashad Romeah (Under sec, MWRI) Eng. Ibrahim Farag Mohamed (Dakahlia EPADP Director) Eng. Amal Mansoura (Dakahlia GEOPWASD Director) Eng. Maher Nassif (Dakahlia NOPWASD Chairman)
Aug 15	National Research Center of Scientific Research Ministry	Discussions with National Research Center on water quality benchmark	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. Fatma Gohry (wastewater treatment expert, NRC)
Aug 18	Kafr El Shiekh	Attend Rice Harvest Day	Dr. Mahdy (EPIQ) S. Joyce (RDI) J. Gleason (RDI) Dr. Fawzi Naem (MALR) Dr. Berry (MALR) Dr. Rizk (MALR) MALR Extension agents Rep of private rice mills farmers
Aug 17-19	Tanta, Ameriya & Alexandria	Tanta, Beheira, and Alex Directorate field trips to investigate wastewater discharge and reuse practice for water quality benchmark	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. A. Khattab (EPIQ) Eng. Galal Bedda (Undersec, Tanta, MWRI) Eng. Abdel Mohsen Dawood (Tanta GEOPWASD Director) Eng. Mosaad El Qeagaa (Undersec, Alex, MWRI), Eng. Hassan El Hakeh (AGOSD Chairman) Eng. Kamal Ghoneim (Under sec, Beheira), and Eng. El Said Helal

DATE	LOCATION	PURPOSE	PARTICIPANTS
			(NOPWASD Director in Beheira and Mounofia Directorates)
August 22	MWRI	Meeting with Minister, MWRI	Dr. Abu Zeid (Minister, MWRI) Eng. Gamil (WPAU) Dr. R. Mahoney (USAID) Dr. C. Anderson (USAID) Dr. Wadie Fahim (USAID) Dr. J. Fredericks (EPIQ)
Aug 22	Field Crop Research Institute	Discussion on Rice rotations	RWG
Aug 23	MWRI / Cairo	Meeting on BCWUA experiences	Dr. R. Cardinalli (EPIQ) Lieann Dyck (AUC)
Aug 23	MWRI	Discuss with Eng. Ahmed Maher and other members of law 12 Committee their views regarding amendments necessary the law 12.	Eng. S. Fahmy (WPAU) Eng. M. N. Ezzat (WPAU) Dr. I. Elassiouty (EPIQ) Eng. Ahmed Maher (Consultant, MWRI)
Aug 23	EPADP	Discussions on water quality benchmark	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. A. Khattab (EPIQ) Eng. Mohamed Fathi (Chairman, EPADP)
Aug 24	NOPWASD / Cairo	Discussions on water quality benchmark	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Eng. Magda Gaballa (NOPWASD) Eng. Mohsen Mamdouh (NOPWASD)
Aug 27-28	6 th October City	Workshop on water measures and monitoring	Dr. J. Keith (EPIQ) Dr. Mahdy (EPIQ) Eng. Ragab (EPIQ) Dr. J. Fredericks (EPIQ) Eng. Ali Morsi Butt (MWRI) Eng. H. Elwan (MWRI) General directors, head of water sections and district engineers from six rice pilot directorates
Aug 30	Environment and Public Health Department of MHP	Discussions on water quality benchmark	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. Seham Mohamed Hussin Hendy (Director, EPH, MHP)

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Aug 30	Kafr El Sheikh	Assist video team from GreenCom	Dr. Mahdy (EPIQ) Eng. Ragab (EPIQ) Eng. Elwan (MWRI) Eng Sanaa (MWRI), District engineer, general director, video team from GreenCom, local farmers
Aug 31	MWRI	Courtesy Visit to EPIQ Project	Dr. R. Brown (USAID) Dr. R. Mahoney (USAID) Dr. T. Olson (USAID) D. McCloud (USAID) EPIQ Staff
Sept 1	MWRI / Cairo	Meeting regarding IMT Benchmark & Ideal District Study	Dr. R. Cardinalli (EPIQ) Eng. Yehya Abd. Aziz (MWRI) Eng. Aly Morsi Butt (MWRI) Eng. Nasser Ezzat (WPAU)
Sept 2	MWRI / Cairo	Meeting with Eng. Askar, re IMT benchmark and Mechanical and Electrical Department plan for private sector O&M contracting	Dr. R. Cardinalli (EPIQ) Eng. Nasser Ezzat (WPAU) Eng. A.M. Askar (MWRI)
Sept 1-2	Luxor & Qena	Check weir installation and telemetry	Eng. Ragab (EPIQ) Eng. Abou Krisha (Under Sec), Dist eng Luxor, Isna, and Elwakf, Gen director Qena, inspector of works, Isna
Sept 5	MWRI / Cairo	Meeting with Horizontal Expansion Sector, MPPWR re IMT benchmark & Ideal District Study	Dr. R. Cardinalli, (EPIQ) Eng. Nasser Ezzat (WPAU) Dr. Dia el Quosy (HES, MWRI)
Sept 6	MWRI	Meeting with Eng. Yehia Abdel Aziz, Chairman of Irrigation Sector, to discuss institutional changes within MWRI.	Eng. S. Fahmy (WPAU) Eng. N. Ezzat (WPAU)
Sept 6	NOPWASD / Cairo	Further contact and invitation of their involvement in the water quality benchmark	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Eng. Magda Gaballa (NOPWASD) Eng. Mohsen Mamdouh (NOPWASD)
Sept 7	Agriculture Club Cairo	On-farm irrigation Workshop	SCWG

DATE	LOCATION	PURPOSE	PARTICIPANTS
Sept 8	MWRI / Cairo	Meeting regarding with senior planning sector chairman on IMT benchmark, Ideal District Study, and proposal for MWRI O&M contract with private sector	Dr. R. Cardinalli (EPIQ) Eng. A. Rahman Shalaby (MWRI) Eng. N. Ezzat (WPAU)
Sept 8	USAID/Cairo	SO1 Quarterly Meeting	R. Brown (Mission Director, USAID) R. Mahoney (SO1,USAID) SO1 COPs
Sept 9	MWRI / Cairo	Meeting to discuss possible solutions to IDA-financed IIP project	Dr. R. Cardinalli (EPIQ) Dr. A. Subramanian (IDA) Dr. J-F. Barres (World Bank ,Cairo)
Sept 9	MWRI	Steering Committee Meeting to Discuss “Improved Management of Environment and Natural Resources in Targeted Sectors”	Eng. Gamil (Chairman) MWRI Steering Committee Eng. Sarawat (WPAU) Dr. T. Olson (USAID) Dr. A. Davis (USAID) Dr. K. Baum (USAID) Dr. Wadie Fahim (USAID) Eng . M. Mabrouk (USAID) Dr. J. Fredericks (EPIQ)
Sept 9	USAID / Cairo	History and current status of USAID-supported programs in urban wastewater treatment development	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Mr. Mamdouh Raslan (USAID) Mr. Glenn Whaley (project officers of wastewater treatment department, USAID)
Sept 11	MWRI / Cairo	Meeting to discuss progress in setting up IMPIM chapter in Egypt	Dr. R. Cardinalli (EPIQ) Dr. A. Subramanian (IDA) Eng. Yehya Abdel Aziz (MWRI)
Sept 13-14	Port Said	Water Policy Group Tranche IV planning retreat	EPIQ Staff WPAU Staff Eng. Mabrouk (USAID)
Sept 14	MWRI	Meeting with Eng. Abdel Rahman Shalaby, Chairman of Planning Sector, to discuss sector, the political aspects of reviewing law 12/1984 and its supplementary law 213/1994.	Eng. S. Fahmy (WPAU) Eng. N. Ezzat (WPAU)
Sept 16	MWRI	Alexandria Water Master Plan	John Rattray (CDM)

DATE	LOCATION	PURPOSE	PARTICIPANTS
		Project Briefing	Chris Schulz (CDM) EPIQ Team
Sept 16	MEA / Cairo	Initial contact and participation to MEA meeting on the clean-up of Moheit drain in Giza	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. Ahmed Hamza (Compliance office, MEA) other mtg participants
Sept 19	Central Directorate of River Nile Protection	Contact with MWRI representative to MEA's Moheit drain clean-up action	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. A. Khattab (EPIQ) Eng. Mohmed Morsi (Dir,CDRNP, MWRI)
Sept 19	Delta Barrage	First meeting of MWRI Committee on Farmer Participation	Dr. R. Cardinalli (EPIQ) Dr. Fathma Abdel Md.(MWRI) Eng. Yehya Abdel Aziz (MWRI) Eng. Jan Bron (Dutch water Board Project) Eng. Essam Barakat (IAS, MWRI) Eng. Magdy Salah el-Deen (APP) Dr. Rens Verstappen (Fayoum Project)
Sept 20-21	Hotel Flamenco, Cairo	Mismatching Workshop	Eng. Ali Morsey Butt (MWRI) Dr. Fawzi Nayeem (MALR) Mismatch WG MALR/MWRI Under secs, gen dir of Luxor/Qena, Behiera, Sharkaya, Beni Seuf governorates
Sept 22-23	Mansoura	Investigating the Mansoura wastewater treatment plant as a case study	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Dr. A. Khattab (EPIQ) Eng. Amal Mansoura (Dakahlia GEOPWASD Director) Eng. Ibrahim Farag Mohamed (Dakahlia EPADP Director) Eng. Maher Nassif (Dakahlia NOPWASD Chairman), and staff

DATE	LOCATION	PURPOSE	PARTICIPANTS
			members of Mansoura WWTP
Sept 26	CHEMONICS / Cairo	Contact with the USAID-sponsored Secondary City Project for the information of their activities in selected Governorates	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Eng. Hesham M. Sabra (Deputy COP, Chemonics) Eng. Fayez Badr (USAID) Mr. Mamdouh Raslan (USAID)
Sept 27	Zenien wastewater treatment plant	Understanding O&M practice in existing wastewater treatment plant (WWTP)	Dr. I. Elassiouti (EPIQ) Dr. Z. Zhu (EPIQ) Eng. Samir Abdel Moneim Ibrahim (West Bank Sector Head, GOSD) Eng. Mohamed Bahget Ellassali (Manager, Zenien WWTP)
Sept 30	EPAD / MWRI	Meeting with EPAD chairman regarding IMT benchmark and drainage collector associations	Dr. R. Cardinalli (EPIQ) Eng. S. Fahmy (WPAU) Dr. Mohammad Fathy (EPAD)
Oct 3	APRP Conference Rm	Discuss mismatch plan collection	Mismatch Working Group (MWG)
Oct 3	MWRI / Cairo	Discussion and coordination with Dutch Water Boards Project	Dr. R. Cardinalli (EPIQ) Ing. Jan Bron (Team Leader, DWBP) Ing. William Olliemanns (DWBP)
Oct 4	El Nasri Canal, Beheira	To inspect possible IMT pilot area in Nubereiya	Dr. J. Fredericks (team leader) Dr. R. Cardinalli (EPIQ) Eng. Nasser Ezzat (WPAU) Eng. Fauzy el Bishbishi (ID)
Oct 7	MWRI / Cairo	Discussion on IMT with Horizontal Expansion Sector	Dr. R. Cardinalli (EPIQ) Eng. Nasser Ezzat (WPAU) Dr. Dia el Quosy (HES)
Oct 7	Helwan Wastewater Treatment Plant	Investigating the plant's operation practice.	EPIQ – Zhu & Elassiouty Helwan WWTP Manager and staff
Oct 12	APRP/ Cairo	PPC Meeting	PPC USAID Ag Policy Team APRP TA COPs
Oct 12	EPAD / Cairo	Discussion with EPADP regarding IMT	Dr. R. Cardinalli (EPIQ) Eng. Sarawat Fahmy (WPAU)

DATE	LOCATION	PURPOSE	PARTICIPANTS
			Eng. Md. Fathy (EPADP)
Oct 13	Sharkiya	Water Management benchmark coordination	Eng. Soliman Abou-Zeid (MSM) Eng. Amr Hafez (MSM) MWRI Sharkiya Chairman and staff
Oct 14	MWRI/Cairo	Congratulatory Meeting with HE Minister MWRI	HE Minister EPIQ TA Team
Oct 16	Environ Ministry (MEA)	2 nd Moheit Drain Clean-up Meeting	EPIQ – Ellassiouty MEA – Dr. Ahmed Hamza (Compliance office) and other meeting participants
<i>Oct 18</i>	MWRI	Discussion with Eng. Ahmed Maher, Chairman of law 12 revision committee, on the necessary amendments to law 12	Eng. Sarwat Fahmy (WPAU) Eng. N. Ezzat (WPAU) Dr. I. Ellassiouty (EPIQ) Eng. A. Maher (Consultant MWRI)
Oct 19-20	Qena	Water Management benchmark coordination	Eng. Soliman Abou-Zeid (MSM) Eng. Amr Hafez (MSM) MWRI Qena General Director and staff
Oct 20	MWRI Office, Zagazig	Discuss mismatch data collection	MWG
Oct 22-23	El Salam Canal and Dakahlia region	Exploring the feasibility of chlorinating drain water	EPIQ – Zhu & Ellassiouty Individual expert – Eng. Mohamed Bahget Ellassali (Zenein WWTP)
Oct 23	Damenhour	Discuss mismatch data collection	MWG
Oct 24	MWRI	GreenCom III End of Project Briefing	Senior officials of MWRI, USAID, WCU advisory committee, WCU staff APRP COPs, representative donors, GreenCom advisors
Oct 25	Exhibition of Ministry of Housing	Private sector participation in wastewater treatment O&M	EPIQ – Ellassiouty & Zhu
Oct 25	CAIROMATIC / Cairo	Investigating the role of private sector in WWTP operations	EPIQ – Ellassiouty & Zhu CAIROMATIC – Mr. Ali Tantawy (Chairman & CEO)
Oct 25	Sarheya, and El	Exploratory visit to two	Dr. R. Cardinalli (EPIQ)

DATE	LOCATION	PURPOSE	PARTICIPANTS
	Moulak Canal (Sharkaiya Governorate)	possible IMT pilot areas	Eng. Nasser Ezzat
Oct 26	Conrad Hotel, Cairo	MWRI WCU National Campaign Launch	Senior officials of MWRI, USAID, WCU advisory committee, WCU staff, television media; representative donors, GreenCom advisors; J. Fredericks (EPIQ)
Oct 26	MWRI	Meeting with Dutch Water Board Project Staff re Pilot Selection	Dr. R. Cardinalli (EPIQ) Eng. Essam Barakat (IAS) Ing. Jan Bron (Team Leader, WBP)
Oct 26	Beni Seuf	Discuss mismatch data collection	MWG
Oct 29-30	Alexandria	Tranche IV Water Policy Benchmark Implementation Workshop	HE Minister Dr. Abu Zeid (MWRI); Steering Committee; USAID water group; WPAU; EPIQ TA team; representatives from APRP TA teams.
Oct 31	Planning sector, MWRI	Discussion with Eng. Abdel Rahman Shalaby, Senior Undersecretary of State institutional changes within the Ministry	Dr. Ibrahim Elassiouty (EPIQ) Eng. Abdel Rahman Shalaby (Chairman of Planning Sector)
Nov 1	Qena	Discuss mismatch data collection	MWG
Nov 7	Minister's Office, MWRI	Defining coordinator's responsibilities for water quality benchmark	EPIQ – Zhu, Khattab, and Elassiouty Eng. Hussin Atfy (MWRI)
Nov 8	EPADP, Cairo	Discuss EPIQ involvement in pipe factory privatization study	Eng. Mohamed Fathi (EPADP), Eng. Sarwat Fahmy (WPAU), Fredericks and Keith (EPIQ)
Nov 9	El Salaam Canal and Manzala	Visit to North Sinai Development Project Authority to discuss IMT benchmark objectives and visit proposed canal.	Dr. R. Cardinalli (EPIQ) Eng. Nasser Ezzat (WPAU) Staff of Sharkaiya Irrigation Department
Nov 14	MWRI / Cairo	Meeting with IAS re follow- up of IAS benchmark implementation	Dr. R. Cardinalli (EPIQ) Eng. Eng. Essam Barakat (MWRI)

DATE	LOCATION	PURPOSE	PARTICIPANTS
			Eng. Nasser Ezzat (WPAU)
Nov 15	MWRI / Cairo	Discussion on IIP program and future direction	Dr. R. Cardinalli (EPIQ) Eng. Essam Barakat (IAS) Eng. Ramsis Bakhoum (IIS) Dr. A. Subramanian (IDA)
Nov 15	APRP	Discuss next steps in mismatch activities	MWG
Nov 15	MOHP, Environ Health Dept	Participation in water quality benchmark	EPIQ – Zhu, Ellassiouty, and Khattab MOHP – Dr. Seham Handy (Director, MOHP)
Nov 15	APRP	Report progress on the ASME model review, modification and restructuring	ASMEWG
Nov 15	EPADP	Meeting with EPADP chairman regarding drainage laws	Eng. N. Ezzat (WPAU) Dr. I. Ellassiouty (EPIQ)
Nov 17	Luxor / Wastewater Treatment Plant	Visit to MALR-sponsored wastewater effluent irrigation on man-made forest in Luxor	EPIQ - Zhu and Ellassiouty MALR - Dr. Saad Nassar (Head of APRP/ National Agricultural Research Center) and Dr. Mamdouh Riad (Head of Afforestation Dept) FAO - Mr. Adnan Al Fares (Regional Office Head) and Mr. A. Bin Yehia (Country Project Officer)
Nov 17	El Kanater	2 nd Meeting Co-Ordination Committee on Water Resources Planning Projects	Dr. Ahmed Khattab (EPIQ) MWRI Coordination Committee
Nov 17-18	Faed	Tranche IV non-water implementation workshop	USAID Ag Policy Team APRP TA teams
Nov 21-25	Marriott/ Cairo	National Water Research Center Conference	USAID Ag Policy water group staff EPIQ TA team
Nov 22	<i>MWRI</i>	Meeting with Eng. Ahmed Maher and other members of law 12 committee concerning amendments necessary in law 12	Eng. Sarwat Fahmy (WPAU) Eng. N. Ezzat (WPAU) Dr. I. Ellassiouty (EPIQ) Eng. A. Maher (Consultant MWRI) Eng. Ali Morsi (Irrigation Dept.)
Nov 23	MWRI Training Center, 6 th October	Workshop to present report on analysis of water monitoring	Fredericks, Keith, Mahdy, Ragab, Oad (EPIQ), 25

DATE	LOCATION	PURPOSE	PARTICIPANTS
	City	for rice acitivity	persons from MWRI
Nov 29	NOPWASD	Discussed participation in water quality benchmark	EPIQ - Zhu and Ellassiouty NOPWASD – Eng. Magda and Eng. Mohsen
Dec 5-6	Cairo	Workshop to present data collection efforts, develop next steps in mismatch benchmark	MWG
Dec 7	Alexandria	Workshop of Alexandria Raw Water Supply Project	EPIQ - Zhu and Ellassiouty Alexandria Governorate, USAID and other agencies
Dec 12	MED, Cairo	Discussion with Mechanical and Electrical Dept., MWRI legislation concerning pumping stations.	Eng. Nasser Ezzat (WPAU) Dr. I. Ellassiouty (EPIQ)
Dec 13	Khanatta / NWRC Central Lab for Environ Quality Monitoring	Exploring feasibility of using the lab for testing wastewater effluent quality in Mansoura	EPIQ – Ellassiouty, Khattab, and Zhu MOHP – Dr. Seham Handy
Dec 18	MWRI / Cairo	To collect views of Planning Sector head on IMT benchmark direction	Dr. R. Cardinalli (EPIQ) Eng. Nasser Ezzat (WPAU) Eng. A. R. Shalaby (MWRI)
Dec 19	MWRI Water Board Project	Discussion on amendments to law 12, which would enable water boards to function as desired.	Dr. I. Ellassiouty (EPIQ) Mr. Jan Bron (Team Leader Consultant's Team Water Board Project)
Dec 22	MWRI / Cairo	Discussion with IFAD and FAO on PIM program in Beheira.	Dr. R. Cardinalli (EPIQ) Ing. Patric LeBlanc (IFAD) Ameera Salim (FAO Prog. Officer)

Appendix E: STAFF LEVEL OF EFFORT

Name	Position	LOE		
		Approved	Used	
			Total	1999
<i>Expatriate Long Term TA</i>				
John Priest	Chief of Party	55	54	0
Dr. Jeff Fredericks	Chief of Party	631	470	225
Thomas Burola	Administrative Officer	450	461	52
Greg Olson	Administrative Officer	304	118	118
Dr. Thomas Ley	Senior Irrigation Engineer	438	438	48
Dr. Zhongping Zhu	Senior Water Resources Engineer	796	636	250
Dr. Dennis Wichelen	Senior Water Economist	118	118	0
Dr. John Keith	Senior Water Economist	477	477	304
Dr. Robert Cardinalli	Senior Sociologist	595	464	260
<i>Egyptian Long Term TA</i>				
Dr. Mohamed Allam		111	111	0
Dr. Ahmed Fakhry Khattab	Co-Team Leader	628	565	237
Dr. Ibrahim Elassiouti	Senior Water Resources Mgmt. Specialist	628	569	235
Eng. Saleh Nour	Senior Hydrogeologist	481	423	123
Dr. El-Sayed Mahdy	Economist	476	416	220
Eng. Ragab Abdel Azim	Drainage Engineer	497	457	240
<i>Expatriate Short Term TA</i>				
Dr. Larry King	Groundwater Management Specialist	90	90	90
Dr. Ramchand Oad	Water Measurement Specialist	50	49	49
Dr. John Wilkins-Wells	Cost Sharing Specialist	45	37	37
Vic Kimm	Environmental	60	46	46

Name	Position	LOE		
		Approved	Used	
			Total	1999
	Specialist			
Dr. Frank Hanigan	Water Policy Information Specialist	45	18	18
Dr. Jeff Fredericks	Engineer	7	6	0
Dr. Mike Rock	Technical Coordinator	97	97	10
Ellen Corbin	Acting Administrator	30	15	15
Margaret Elliot	Technical Writer	50	50	50
Kristin Kent	Technical Editor	30	10	10
LA Frank	Technical editor	30	14	14
Dr. Jack Keller	Senior Irrigation Engineer	114	54	0
Dr. Robert Young	Senior Economist	34	34	0
D. Spears		5	5	0
Dr. Max Lowdermilk	Senior Participation Specialist	78	78	0
<i>Local Egyptian Short Term TA</i>				
Eng. Essam Barakat	Senior Irrigation Participation Specialist	147	147	52
Eng. Hussein Elwan	Irrigation Management Specialist	224	171	111
Dr. Sofwat Dayem	Senior Drainage Policy Spec.	25	25	0
Eng. Hussan Shouman	Irrigation Legal Spec.	7	7	0
Eng. Nagati Hanadi	Groundwater Management Specialist	60	31	31
Dr. Fatma Gory	Environmental Specialist	60	58	58
Eng. Abdel Abu Elnor	Sociologist/Organizational Specialist	60	60	60
Dr. Mohamed Mohieddin	Sociologist	21	21	21
Dr. Samia Galal	Environmental Specialist	45	45	45
Dr. Mohamed Rami	Computer Modeling	52	49	49

Name	Position	LOE		
		Approved	Used	
			Total	1999
	Specialist			
Dr. Fouad Abdalla Kheiralla	Trainer/Facilitator	30	30	30
Dr. Amer	Facilitator	11	11	11
Abdel Fattah Gouda	Egyptian Institutional Specialist	15	15	15
Dr. M Sameh Amir	Institutional Spec/Legal Advisor	45	42	42
Abdel Rahim El-Mahdy	Interpreter/Translator	60	25	25
Eng. Sanaa Rashid	Water Data Analysis Specialist	92	92	60
Eng. Adel Abdel Kader	Rice Data Collection Eng.	80	86	16
Eng. Fawzy El Bishbishy	Rice Data Collection Eng.	5	5	1
Eng. Mahmoud Rashad Nasef	Rice Supervisory Eng.	5	5	1
Eng. Fawzy Ibrahim El Sobary	Rice Supervisory Eng.	5	5	1
Mr. Abdel El Sayed Abdel Hamid	Rice Data Collection Eng.	20	20	4
Mr. Fekry Ahmed Ibrahim	Rice Data Collection Eng.	20	20	4
Maher El-Khodary	ID Irrigation Supervisor	15	15	9
Abdel Mageed Esamil	ID Irrigation Supervisor	15	15	9
Nahed Mahmoud Hanafy	ID Irrigation Supervisor	20	20	11
Magdy Metry	ID Lead Data Collection Eng	37	37	21
Hany Hassan Refaat	ID Lead Data Collection Eng	37	37	31
Taghreed Rodwan Elleithy	ID Asst. Data Collection Eng	46	46	26
Nahla Mohammed Assem	ID Asst. Data Collection Eng	46	46	26
Nasr Shazly Hafez	GW Data Collection Engineer	60	31	31
Mohamed Abdel Safar	GW Data Collection	60	31	31

Name	Position	LOE		
		Approved	Used	
			Total	1999
Mohamed	Engineer			
Mohamed Omar Toleib	GW Data Collection Engineer	60	31	31
Mohamed Raafat Omar	GW Data Collection Engineer	60	31	31
Mansour Ibrahim Sayed	GW Data Collection Engineer	60	31	31
Saad Youssef Abdou Bakr	GW Laboratory Analyst	25	21	21
Dr. I.R. Aity	Ag. Lead Data Collection Sup.	40	40	40
Dr. A.El-Hissewy	Ag. Data Collection	65	65	65
Dr. A. Draz	Ag. Data Collection	65	65	65
Dr. A. El-Serafy	Ag. Data Collection	65	65	65
Dr. A. Orabi Bastawisi	Ag. Data Analysis	25	25	25
Egyptian Admin Staff				
Foaz El Mona Fouad	Secretary (executive secretary)			
Jacqueline Rizk	Clerk (bookkeeper)	(Resigned August 1999)		
Amira Serry	Clerk (secretary)			
Mona Zakhary	Clerk (secretary)			
Kalid Mokhtar	Messenger (teaboy)			
Akmed Mahmoud	Messenger (teaboy)			
Saeed Maebed	Driver			
Adel Moustafa	Driver			
Ahmed Saeed	Driver	(Resigned November 1999)		

APPENDIX F: EQUIPMENT INVENTORY

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
001	001	Air-Condition - Power Egypt - split,Floor p42	171350	POWER EGYPT	WRRP/35/1001/97	8/21/97	6,500.00	\$1,917.40	910
002	002	Air-Condition - Power Egypt - split,Floor P42	17357	POWER EGYPT	WRRP/35/1001/97	8/21/97	7,300.00	\$2,153.39	911
003	003	Air-Condition - Power Egypt - split,Floor P42	17349	POWER EGYPT	WRRP/35/1001/97	8/21/97	7,300.00	\$2,153.39	912
004	004	Air-Condition - Power Egypt - split,Floor P42	17347	POWER EGYPT	WRRP/35/1001/97	8/21/97	6,500.00	\$1,917.40	915
005	005	Air-Condition - Power Egypt - split,Floor P42	17323	POWER EGYPT	WRRP/35/1001/97	8/21/97	6,500.00	\$1,917.40	916
006	006	Air-Condition - Power Egypt - split,Floor P42	17355	POWER EGYPT	WRRP/35/1001/97	8/21/97	6,500.00	\$1,917.40	917
007	007	Air-Condition - Power Egypt - split,Floor P42	17358	POWER EGYPT	WRRP/35/1001/97	8/21/97	6,500.00	\$1,917.40	901
008	008	Desk Tops Computer type AST - Adventure 210 / 166 Mhz	207GD6001291	Comec Computer	WRRF/ 35/1003/ 1997	8/25/97	6,390.00	\$1,884.96	918
009	009	Desk Tops Computer type AST - Adventure 210 / 166 Mhz	207GD6001279	Comec Computer	WRRF/ 35/1003/ 1998	8/26/97	6,390.00	\$1,884.96	911
010	010	HP Printer, type 4V / 4MB - A4 & A3 size 600X600 DPI	JPXS048486	Comec Computer	WRRF/ 35/1003/ 1999	8/26/97	8,200.00	\$2,418.88	910
011	011	Desk Tops Computer type AST - Adventure 210 / 166 Mhz	207GD6001314	Comec Computer	WRRF/ 35/1004/ 1997	8/26/97	6,390.00	\$1,884.96	910
012	012	Desk Tops Computer type AST - Adventure 210 / 166 Mhz	207GD6001330	Comec Computer	WRRF/ 35/1004/ 1998	8/26/97	6,390.00	\$1,884.96	910
013	013	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/1007/ 1997	9/15/97	695.25	\$205.09	901
014	014	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/1007/ 1997	9/15/97	695.25	\$205.09	901
015	015	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/1007/ 1997	9/15/97	695.25	\$205.09	901

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
016	016	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	695.25	\$205.09	917
017	017	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	695.25	\$205.09	916
018	018	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	695.25	\$205.09	916
019	019	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	695.25	\$205.09	916
020	020	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	695.25	\$205.09	915
021	021	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	695.25	\$205.09	915
022	022	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	695.25	\$205.09	915
023	023	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	901
024	024	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	901
025	025	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	901
026	026	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	917
027	027	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	916
028	028	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	916
029	029	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	916
030	030	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	915
031	031	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	915
032	032	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	154.50	\$45.58	915
033	033	Moving drawers unit		BUREAUX EI	WRRP/ 35/	9/15/97	329.60	\$97.23	901

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
				CHABRAWI	1007/ 1997				
034	034	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	901
035	035	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	901
036	036	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	917
037	037	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	916
038	038	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	916
039	039	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	916
040	040	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	915
041	041	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	915
042	042	Moving drawers unit		BUREAUX EI CHABRAWI	WRRP/ 35/ 1007/ 1997	9/15/97	329.60	\$97.23	915
043	043	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	915
044	044	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	915
045	045	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	911
046	046	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	911
047	047	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	911
048	048	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	911
049	049	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	912
050	050	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	912

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
051	051	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	912
052	052	Desk 160 * 70 cm2		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	695.25	\$205.09	JF
053	053	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	915
054	054	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	915
055	055	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	911
056	056	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	911
057	057	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	911
058	058	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	911
059	059	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	912
060	060	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	912
061	061	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	912
062	062	Side		BUREAUX EI CHABRAWI	WRRP/ 35/ 1008/ 1997	9/16/97	154.50	\$45.58	912
063	063	Main desk * 120*80*75 with corner and side 100X60X75		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	1,500. 00	\$442.48	910
63A	63A	Pedestal		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	599.00	\$176.70	910
064	064	Table O 120 cm		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	795.00	\$234.51	910
065	065	Table 50*50*40 cm		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	150.00	\$44.25	916
066	066	Work stations		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	9,440. 00	\$2,784. 66	910
66A	66A	Pedestal		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	599.00	\$176.70	910

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
					1009/ 1997				
66B	66B	Pedestal		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	599.00	\$176.70	910
66C	66C	Pedestal		MULTI M GROUP	WRRP/ 35/ 1009/ 1997	9/14/97	599.00	\$176.70	910
067	087	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	910
068	088	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	911
069	089	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	911
070	090	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	911
071	091	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	915
072	092	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	915
073	093	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	915
074	094	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	915
075	095	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	916
076	096	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	916
077	097	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	917
078	098	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	917
079	099	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	917
080	100	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	917
081	101	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	918

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
082	102	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	918
083	103	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	918
084	104	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	901
085	105	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	912
086	106	Desk Chairs with arms, wheels and cloth covering		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	463.50	\$136.73	912
087	107	Round conference table with glass top - 125 cm in diameter		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	875.50	\$258.26	901
088	108	Round conference table with glass top - 125 cm in diameter		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	875.50	\$258.26	917
089	109	Round conference table with glass top - 125 cm in diameter		BUREAUX EI CHABRAWI	WRRP/ 35/ 1014/ 1997	9/15/97	875.50	\$258.26	916
090	130	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	915
091	131	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	915
092	132	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	911
093	133	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	911
094	134	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	911
095	135	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	911
096	136	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	912
097	137	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	912
098	138	Mobile drawer units with lock on first drawer only		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	329.60	\$97.23	912
099	139	Mobile drawer units with lock on first drawer		BUREAUX EI	WRRP/ 35/	9/24/97	329.60	\$97.23	912

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
		only		CHABRAWI	1015/ 1997				
100	140	Round conference table with glass top - 125 cm in diameter		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	875.50	\$258.26	915
101	141	Round conference table with glass top - 125 cm in diameter		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	875.50	\$258.26	912
102	142	Round conference table with glass top - 125 cm in diameter		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	875.50	\$258.26	911
103	143	Armless visitor chairs for COP room		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	218.23	\$64.37	918
104	144	Armless visitor chairs for COP room		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	218.23	\$64.37	918
105	145	Guest table in front of COP Desk		BUREAUX EI CHABRAWI	WRRP/ 35/ 1015/ 1997	9/24/97	300.00	\$88.50	918
106	146	Main Desk 120 X 80 X 75 , corner , side 100 X 60 X 75 cm		MULTI M GROUP	WRRP/ 35/ 1015/ 1997	9/20/97	2,100. 00	\$619.47	918
107	147	Printer HP4V	JPXQ025 003	COMEC Computer	WRRP/ 35/ 1016A/ 1997	10/18/97	8,200. 00	\$2,418. 88	916
108	148	Canon Fax Machine Multi Pass C30	6090500 3	Canon	WRRP/ 35/ 1016B/ 1997	10/8/97	6,500. 00	\$1,917. 40	910
109	149	Xerox Photocopier model number 5845	5773151	Xerox	WRRP/ 35/ 1020/ 1997	10/27/97	55,600 .00	\$16,401 .18	918
110	150	AST computers , Adventure 210 - P 166 - 16 MB	237GD60 01808	COMEC Computer	WRRP/ 35/ 1021/ 1997	10/22/97	6,390. 00	\$1,884. 96	916
111	151	AST computers , Adventure 210 - P 166 - 16 MB	207GD60 01808	COMEC Computer	WRRP/ 35/ 1021/ 1997	10/22/97	6,390. 00	\$1,884. 96	912
112	152	Compaq computer - 66MHz - 12MB RAM - HD 1.7	160643- 001	COMEC Computer	WRRP/ 35/ 1022 / 1997	10/27/97	4,250. 00	\$1,253. 69	918
113	153	AST Bravo LC 5200	3172000 03049	Glory Tech	WRRP/ 35/ 1024 / 1997	11/3/97	6,300. 00	\$1,858. 41	916
114	154	AST Bravo LC 166	467GW8 500221	Glory Tech	WRRP/ 35/ 1024 / 1997	11/3/97	5,100. 00	\$1,504. 42	912
115	155	AST P200 Mhz	457GW8 500161	COMEC Computers	WRRP/ 35/ 1028/ 1997	11/11/97	6,390. 00	\$1,884. 96	918
116	156	Exide Electronics net UPS 2000VA	LP192A0 03	IMBT Trd.	WRRP/ 35/ 1032/ 1997	12/4/97	3,148. 00	\$928.61	918

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
117	157	AST computer P200 MMX with 32 MB RAM , 2 GB HD	467GW8 500217	COMEC Computer	WRRP/ 35/ 1038/ 1998	1/22/98	6,150. 00	\$1,814. 16	910
118	158	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	918
119	159	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	901
120	160	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	901
121	161	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	901
122	162	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	901
123	163	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	901
124	164	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	917
125	165	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	917
126	166	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	917
127	167	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	917
128	168	Low back chairs - leather - brown - non hydrolic		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	917
129	169	Desk Chairs with arms, wheels and cloth covering		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	JF
130	170	Desk Chairs with arms, wheels and cloth covering		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	JF
131	171	Desk Chairs with arms, wheels and cloth covering		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	JF
132	172	Desk Chairs with arms, wheels and cloth covering		Bureaux El Chabrawi	WRRP/ 35/ 1040/ 1998	1/27/98	417.00	\$123.01	JF
133	173	AST server , pentium II 2 - 233 MMX , 64 MB RAM , 2 HD each 2.1 GB	457GK95 00190	COMEC Computer	WRRP/ 35/ 1043/ 1998	2/1/98	11,400 .00	\$3,362. 83	916
134	174	Overhead projector Apollo one - 400-5 400	9718074	Cairo Photo Stores	WRRP/ 35/	2/4/98	4,950.	\$1,460.	Conf.

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
		Watt	3		1044/ 1998		00	18	Rm
135	175	Scanner HP + SCSI card + cables + OCR English	SG7A9140DP	COMEC Computers	WRRP/ 35/1048/ 1998	2/10/98	4,200.00	\$1,238.94	916
136	176	Printer EPSON Styles - A3 size + cables - SN 3KLX005453	C2110700256A7411183	COMEC Computer	WRRP/ 35/1048/ 1998	2/11/98	5,600.00	\$1,651.92	918
137	177	HUB 16 Port (wide)	BHP2000599	COMEC Computer	WRRP/ 35/1052/ 1998	3/16/98	2,900.00	\$855.46	IT Center
138	178	HUB 16 Port (wide)	BHP2000600	COMEC Computer	WRRP/ 35/1052/ 1998	3/16/98	2,900.00	\$855.46	IT Center
139	179	AST Computer : Bravo 166 MHz , 16 MB RAM . 2GB HD,	337GDK500998	COMEC Computer	WRRP/ 35/1052/ 1998	3/16/98	5,450.00	\$1,607.67	911
140	180	AST Bravo - 32 RAM , 2 GB HD , VGA PCI SVGA Monitor	457GW8500182	COMEC Computer	WRRP/ 35/1057/ 1998	3/23/98	5,750.00	\$1,696.17	915
141	181	Book shelves		Bureaux Chabrawi	WRRP/ 35/1060/ 1998	3/30/98	760.00	\$224.19	912
142	182	Book shelves		Bureaux Chabrawi	WRRP/ 35/1060/ 1998	3/30/98	760.00	\$224.19	915
143	183	Cabinets		Bureaux Chabrawi	WRRP/ 35/1060/ 1998	3/30/98	798.00	\$235.40	917
144	184	Filing cabinet with 4 drawers		Chabrawi Furniture	WRRP/ 35/1068/ 1998	4/25/98	760.00	\$224.19	916
145	185	Meeting Table		Chabrawi Furniture	WRRP/ 35/1068/ 1998	4/25/98	875.00	\$258.11	Conf. Rm
146	186	"Ford Windstar GL 3.0 Liter SE FI" Series Vans	28433	Ragab Ford	WRRP/ 35/1081/ 1998	6/30/98		\$25000	WPAU
147	187	"Ford Windstar GL 3.0 Liter SE FI" Series Vans	36892	Ragab Ford	WRRP/ 35/1081/ 1998	6/30/98		\$25000	WPT
148	188	Cherokee 1996 Model	282988	WINROCK	8180			\$22000	WPT
149	189	Cherokee 1996 Model	282989	WINROCK	8180			\$22000	WPT
150	190	DELL Laptop Inspiron 3000 M200ST	32287	WINROCK	139938658	13/01/98		\$2527	Jfred
151	191	DELL Laptop Inspiron 3000 M200ST	32291	WINROCK	139938658	13/01/99		\$2527	Admin

	Item #	Description of Equipment	Serial Number	Source of Equipment	PO Number	Acquisition Date	Unit Cost	\$	Location
152	192	DELL Laptop Inspiron 3000 M200ST	32123	WINROCK	139938658	4/2/98		\$2527	RJC
153	193	DELL Laptop Inspiron 3000 M200ST	34217	WINROCK	139938658			\$2527	Admin
154	194	Telephone System (PBX)		Panasonic	WRRP/ 35/1012/ 1997	9/20/97	10,000.00	\$2,949.85	918
155	195	Computer Bravo EL	457GK92300184	COMEC Computers	WRRP/ 35/1041/ 1998	27/01/98	6,150.00	\$1,814.16	916
156	196	"Ford Taurus, 1997	2844555	WINROCK	8460	2/9/97		\$20000	WPAU