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PAHO REGIONAL PROGRAM PROFILE
FOR
COMMUNITY WATER SUPPLY AND SANITATION (CWS)
(WATER SUPPLY, SEWAGE AND EXCRETA DISPOSAL)



1981-1990

THE INTERNATIONAL DRINKING WATER SUPPLY
AND SANITATION DECADE

631-85PA-6782

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INTRODUCTION

Water Supply, and Sewage and Excreta Disposal

Health problems resulting from water-related diseases, solid wastes, and inadequate housing--including overcrowding and construction practices that spawn disease--are a major cause of morbidity and mortality in the countries of the Region. Efforts to ameliorate these conditions, particularly by extending coverage of safe water supply and adequate sanitation, in accordance with the International Drinking Water Supply and Sanitation Decade (1981-90), have been hampered by the population explosion, the urbanization trend, and the industrialization process. Other constraints to achievement of broad coverage of the services include: competition from other sectors for use of limited human, financial and material resources; lack of information among public opinion molders about community needs and consequent assignment of low priority to these services; underestimation by public administration of the importance of water supply, sewerage and excreta disposal to national development; fragmentation of responsibilities among agencies resulting in uncoordinated action; absence of realistic financial policies, personnel; unsuitable institutional structures and an inadequate legal framework. The Decade offers an opportunity to reaffirm commitment to extending and improving these basic services, especially to the poor and underserved.

The Organization's program in water supply and sanitation which includes the promotion of water fluoridation, consists of specific areas of action carried out by staff at Headquarters, engineers in the countries, and CEPIS in Lima, Peru. Policies and planning are strengthened by integrating drinking water and excreta disposal projects as fundamental elements of national development plans and establishing intersectoral coordination mechanisms. Countries' institutional capacity is being developed to manage and operate water and wastewater disposal systems, by means of specific guidelines and development and strengthening of organizational and management information systems to improve institutional efficiency in using operational resources and expanding installed capacities. PAHO will act as a catalyst to achieve a permanent, planned process of change within institutions to meet the growing demand for services by optimizing operation and maintenance, improving project preparation and execution, developing adequate tariffs, and accelerating national and international funding of projects. Another target is the improvement of water quantity and quality as well as water system management through reduced losses of unaccounted for water, minimal standards of drinking water quality, quantity and service continuity, and better water quality monitoring. PAHO will promote awareness of the WHO drinking water quality guidelines and development of national standards. Participants of the health sector have been getting involved in program development and

(This material was adopted from Official Document 187)

implementation, including identifying and preparing projects, obtaining funding, devising financial policies that reflect goals and users' ability to pay, and increasing nongovernment financing of sector activities. Essential to more and better service is the development and utilization of new and the adaptation of known technologies that are appropriate to specific needs of local capabilities for material and equipment manufacture, and of intercountry information exchange.

PAHO efforts will continue to be concentrated on cooperation in developing appropriate technology modules and methodologies as well as information exchange through the Pan American Network of Documentation and Information on Sanitary Engineering and Environmental Sciences (REPIDISCA), which is operated by CEPIS.

Promotion of community participation will involve formulation of guides to that end and establishment of operational links with primary health care.

An important target will continue to be human resource development, which proposes to stimulate national and subregional training activities that will lead to self-reliance in terms of human resources. The focus will be on training of workers in water and sanitation institutions, the formal academic system and community education.

PROGRAM PROFILE

1. WATER SUPPLY, SEWAGE AND EXCRETA DISPOSAL

1.1 Background

The diseases associated with unsafe drinking water and improper disposal of sewage and excreta figure are among the three leading causes of disease and death in the world. They are among the leading causes of the high mortality and morbidity, and the depressed quality of life found into many countries. In Latin America and the Caribbean, the gastroenterities and diarrheal diseases are among the ten leading causes of death and take about 200 thousand lives a year not counting those claimed by typhoid fever, hepatitis and similar diseases. In the five countries with the lowest life expectancies in the Region, they are the first or second-ranking cause of death.

The Plan of Action for the Implementation of Regional Strategies for Attaining the Goal of Health for All by the Year 2000 embodies the suggested goals of the International Drinking Water Supply and Sanitation Decade 1981-1990 (IDWSSD), which are to provide safe drinking water and adequate sanitation services to the greatest possible number of inhabitants by 1990. The Plan provides for extending access to drinking water supply and excreta disposal services to 100% of the population by the year 2000 as an essential specific goals for attaining HFA/2000 and to promote and strengthen economic and social development in the countries. The Decade gives priority to underserved population groups in rural and peri-urban areas.

1.2 Policy Basis

The Governments of the Americas established regional goals for extending water supplies and sanitation services by the Charter of Punta del Este (1961). When the Ministers of Health drew up the Ten-Year Health Plan for the Americas (1972), they reviewed the situation and recommended goals for the 1970's. They strengthened their recommendations in 1977, when the concept of primary health care was elaborated and again in 1981 when Health for All in the Year 2000 was elaborated.

In addition to numerous WHO resolutions, the principal mandates of the PAHO's Governing Bodies that have given rise to this program and have given it renewed impetus from time to time are:

- Resolution CE36.R4, which in 1958 cited water supply and sewage disposal systems as essential to the progress of health in the Americas.
- In 1959 the World Health Assembly launched the global water supply program with Resolution WHA12.48. In resolution CD11.16 that same year, the Directing Council of PAHO endorsed resolution WHA12.48 and called upon the countries and financial and technical cooperation agencies to give priority to water supply, and authorized the establishment of the PAHO Water Supply Fund.

- In resolution CD13.20 of 1961, the Directing Council of PAHO addressed the hemisphere-wide water supply and sewage disposal program in light of the targets established in the Charter of Punta del Este of 1960, and gave it high priority.
- In 1972 the Ten-year Health Plan for the Americas, drawn up in the III Special Meeting of Ministers of Health in the Americas, set new goals for water supply and sanitation.
- In 1974 the Pan American Sanitary Conference voiced concern about the quality of drinking water (CSP19.14) and the 1975 Conference passed a resolution concerning the Control of Bacteriological Quality of Drinking Water (CSP 19/25).
- In Resolution WHA30.33 of 1977, the World Health Assembly described the measures to be taken in connection with the International Drinking Water Supply and Sanitation Decade, and resolution WHA31.40 of 1978 urged cooperation with the United Nations system in preparing for the Decade.
- In 1979, in Resolution CD26.22, the XXVI Meeting of PAHO's Directing Council adopted Strategies for Extending Water Supply and Excreta Disposal Services During the Decade of the 1980s.
- In 1980, PAHO's Executive Committee established Regional CWSS strategies in their CE 26/22 - Strategies for Extending and Improving Potable Water Supply and Excreta Disposal Services during the Decade of the 80's.
- The Plan of Action to implement the regional strategies for attainment of the goal of HFA/2000 was approved by the Directing Council of the Pan American Health Organization in resolution CD28.11, adopted in its XXVIII Meeting in 1981.
- In 1981, PAHO's Directing Council adopted CWSS goals for the Region in its CD 28/14 - Health for All by the Year 2000, Plan of Action for the Implementation of Regional Strategies.
- WHA 31.40 - Coordination with the United Nations Systems: United Nations Water Conference.
- WHA 32.11 - United Water Conference: Follow-up to the Mar del Plata Action Plan.
- WHA 34.25 - International Drinking Water Supply and Sanitation Decade.
- WHA 36.13 - Reaffirmation of country efforts to meet decade goals to further HFA/2000.

2. SITUATION ANALYSIS

As part of the process of monitoring and evaluation during the Decade, the countries of Latin America and the Caribbean have provided information on the situation in the sector for the year 1983. Analysis of these data, obtained from 26 countries with a combined population of 369 million indicates the following:

- Of an urban population of 247 million in those 26 countries, 214 million (86%) had access to drinking water supply systems through house connections or public stand posts not farther than 200 meters from their homes.
- Of 122 million inhabitants of rural areas (defined diversely for each country, with populations ranging between 100 and 5,000 inhabitants), 52 million (42%) had access to water supplies.
- Sewerage and sanitary excreta disposal services existed for 61% of the urban and 14% of the rural population.

It is estimated that by 1990 the population of these 26 countries will have grown to 438 million, 306 million of them urban and 132 million rural. This represents an increase of urban population of 59 million and of 10 million in the rural areas. The increase of population, plus the natural growth of the countries, result in a potential demand for drinking water during the Decade for 121 million people in urban and 83 million in rural areas. (This increase is about two times the total population served in 1970). Similarly, sewerage or sanitary excreta disposal services will have to be provided for 174 million people in urban and 118 million in rural areas. (This increase is three times the population covered in 1970).

The principal problem in regard to coverage is posed by the urban-fringe settlements, which harbor more than 25% of the population of the larger cities and are growing faster than the population of urban centers as a whole. However, the unserved rural population is also relatively large and needs to be provided for.

A general study of the constraints that have prevented more rapid progress both in coverage and in the quality of services has yielded the following findings, among others:

- General lack of knowledge about the connection between poor water and sanitation services and disease.
- Insufficient knowledge, understanding and motivation at the policy-making and administrative levels as to the importance of drinking water, sanitary sewerage and excreta disposal for health and as part of the foundation for economic and social development in the countries.

- Limiting infrastructures and legal frameworks which do not foster optimal use of available and potential resources and thus hamper the pace and efficiency of water supply and sewage and excreta disposal programs.
- Inadequate policies for financing the water and sanitation sector, particularly for the provision of services in urban-fringe areas and to rural populations. This places the Sector at a disadvantage vis-a-vis the development sectors in the obtaining funds, particularly in the present economic situation of the countries.
- A splintering of responsibilities among many different agencies and lack of coordination among them.
- Weak management and a lack of effective programs for the training, utilization and social promotion of the human resources of the institutions providing services. These often preclude the efficient and effective functioning of the institution.
- The use of technologies unsuited to local social, economic and cultural conditions, particularly in urban-fringe and rural areas.
- Complex and time-consuming procedures for obtaining external investment financing and, insufficient allocations of such investments for development of institutional infrastructures. Lack of funding to the sector has resulted in its being unable to take on the extra workload involved in the efficient management and use of additional funds.
- Deterioration and underuse of installed capacities in such services as systems for water treatment and distribution, sewage collection, etc., largely because of poor operation and maintenance and unsatisfactory planning and operational management.

The analysis of this situation, including the constraints cited and others, suggests a need on the part of the countries for: A better understanding and commitment of how to attain the aims and goals of the IDWSSD and HFA/2000; better and faster planning processes; more effective interinstitutional and intersectoral coordination; broader intercountry and international cooperation, and better managerial, technical and administrative capacity in institutions providing services. Moreover, the attainment of those goals will require greater community participation and user education, special attention to maximum utilization of the installed capacity, the training of human resources for the sector, the optimization of investments, and the improvement of the design, construction, operation and maintenance of services.

3. Objectives and Targets

3.1 Objectives

The long-term objectives of PAHO's CWSS program are "to strengthen and extend drinking water supply and excreta and sewage disposal services so as to attain and maintain service coverage and quality levels in line with the goals of the IDWSSD and HFA/2000."

3.2 TARGETS

The Targets of CWSS program have been divided into four major areas with fourteen (14) goals as follows:

3.2.1 Extension of Coverage

- Promotion of the IDWSSD in all the countries of the Region.
- Formulation and implementation of national plans for drinking water supply and excreta disposal in at least 20 countries by 1989.
- By 1989 most of the countries will have expanded their programs for extending the coverage of drinking water supply and sewerage and excreta disposal services to urban-fringe areas and clustered and scattered rural populations in most of the countries with special attention to increasing the coverage of excreta disposal and sewerage services so as to attain levels commensurate with those of water supply.
- Identification, development, evaluation and use of appropriate technologies for water supply and particularly for excreta and sewage disposal in the Member Countries by 1989 to support the attainment of coverage levels similar to those of water supply services.
- Incorporation of the management and protection of drinking water supply sources into the programs of most of the countries by 1989.
- Development of projects for the sanitary reuse of sewage to increase agricultural production and for other purposes in at least three countries by 1989.

3.2.2 Institutional Development and Optimization of Installed Service Capacities

- By 1989 most of the countries will have programs for strengthening the managerial and operational capacity of water supply and sewage and excreta disposal enterprises.
- Mobilization of local and international resources for the water supply and sanitation sector, and increase of the capacity of institutions to absorb and use those resources effectively.
- By 1989 the Member Countries will have adopted programs for strengthening their operation and maintenance capabilities, with special attention to the rehabilitation of facilities and to optimizing

the use of the installed capacities of the systems, including the control of losses in distribution systems and optimizing the production in treatment plants using appropriate technologies.

- By 1989 the countries of Latin America and the Caribbean will have improved their preparations for coping with disasters in the area of drinking water supplies and sewage and excreta disposal.

3.2.3 Drinking Water-Quality

By 1989 most of the Member Countries will have improved the control of drinking water quality.

By 1989 at least 20 countries will have adopted fluoridation for the population served through piped water supply systems providing optimum levels of fluoride in their drinking water for the improvement of dental health.

3.2.4 Information Systems and Textbooks

By 1989 twenty countries will have national information centers linked to REPIDISCA and will maintain an ongoing flow of information generation, dissemination and use, primarily on water supplies and sewage and excreta disposal.

Strengthening of PAHO's Textbook Program in the environmental health field.

4. PROGRAM DESCRIPTION

4.1 Approaches

The approaches of PAHO Decade effort have been divided into seven (7) areas of effort with thirty seven (37) subapproaches

4.1.1 Promotion of the Decade

- Development and dissemination of information material, with emphasis on health and other benefits.
- Establishment of national coordination mechanisms.
- Inclusion of women in Decade activities.

4.1.2 Planning

- Preparation and implementation of national plans.
- Identification and development of resources for planning.
- Monitoring and evaluation of the Decade.

4.1.3 Extension of Coverage to Urban-Fringe and Rural Areas

- Development of methodologies.
- Stimulation of the integration of programs, plans and projects with those of Primary Health Care and the transfer approaches geared to community participation.
- Mobilization of local institutional resources.

4.1.4 Technology and Information

- Identification, development and application of appropriate technologies.
- Strengthening of information systems in the countries (REPIDISCA) and dissemination of information.
- Encouragement of Technical Cooperation among Developing Countries (TCDC).
- Protection and development of water resources.
- Development of methodologies for the protection of surface and ground water resources.
- Stimulation of the appropriate allocation of water resources for drinking water and sewage disposal purposes.
- Development of new water supply sources.
- Promotion and application of safe and sanitary techniques for the recycling of sewage.
- Reinforcement of PAHO's Textbook Program.

4.1.5 Institutional Development and Optimization of Installed Service Capacities.

- Strengthening of local institutions through technical cooperation.
- Preparation and dissemination of guides, methodologies, models and related materials.
- Strengthening of intersectoral collaboration.
- Support to the development of human resources for primary health care, particularly in the drinking water and sanitation areas.
- Development of educational and orientation materials.
- Evaluation of country manpower needs and the development of systems for their preparation.
- Development of information systems for institutional management, monitoring and evaluation.
- Rehabilitation of systems and optimization of installed capacities.
- Improvement of the operation and maintenance of services with special attention to the area of unaccounted for water.

4.1.6 Mobilization of Resources

- Formulation and development of financial policies, mechanisms and rate structures.
- Identification of nontraditional sources of funds.
- Promotion of participation by other sectors--housing, industry, etc.--in the financing of water supply and sanitation works.
- Mobilization of local and international resources for investment and the strengthening of infrastructures, including the identification, preparation and execution of projects.
- Strengthening the absorptive capacity of institutions so that they will more efficiently manage available and additional resources.

4.1.7 Improvement of Water Quality

- Protection of water supply sources and watershed management.
- Water disinfection.
- Development of pilot water quality improvement projects.
- Updating and application of national water quality standards.
- Extension of water fluoridation.

4.2. Priority Areas

In carrying out its CWSS Program PAHO will give priority to the following aspects:

4.2.1 Extending CWSS Coverage

- Extending the coverage of reliable water supply and excreta disposal services with priority to urban-fringe and rural population groups in accordance with the basic objectives of the IDWSSD. The strategies adopted for the attainment of those objectives in the Decade include, among others, the use of appropriate technologies, active community participation, health education for the community, the development of programs of work, including self-help projects, etc.

4.2.2 Optimization of Installed Service Capacity

- Optimizing the installed capacity of drinking water supply and sanitation services, essentially with a view to their improved operation and maintenance. These actions will include restoration, the reduction of losses in water supply systems, improvement of the quality of water supplied to consumers, and particularly improving the production of water treatment plants and reducing their costs. That proper attention may be given to the improvement of these aspects, the Program places strong emphasis on the development and/or rehabilitation of the institutions responsible for the services and their human resources.

4.2.3 Sewage and Excreta Disposal

- The Program will also give special attention to the rapid development of sewerage and excreta disposal services to bring their coverage abreast of that of water supply services. Measures here will center on a revision of the design standards of engineering projects, the adaptation and development of technologies for the collection and final disposal of sewage and excreta consistent with the finance available, which is becoming increasingly scarce. There will also be emphasis on community participation and health education.

4.2.4 Applied and Operations Research

- To contribute to the development of the water supply and sanitation subsector of the countries in light of the previously stated

priorities, the Program will give special attention to applied and operations research to find more appropriate solutions to the problems that limit the development of water supply and sanitation services. The priority attached to these aspects is reflected in the Program's goals and activities.

4.2.5 Mobilization of Local Resources

- The Program will give particular attention to the mobilization of both conventional and nonconventional local resources so as to enhance the investment capacity of the countries and their communities.

4.3 Program Elements

PAHO's water supply, sewage and excreta disposal program consists of a coordinated set of country programs and projects, intercountry projects as well as a regional office based program of support activities.

In Annex One (1) fifty two country projects are described. Their objectives and targets are followed by a short project description, a budget summary and where appropriate, a status report on the Decade Committee and Plan (See Table 1).

Annex Two (2) presents the only intercountry project. Its objectives and targets are followed by a short project description, a budget summary and, a short evaluation (See Table 1).

The four regional projects that provide support to the country and intercountry projects are described in Annex Three (3). This is followed by a description of the fifth regional project, the Pan American Center for Sanitary Engineering and Environmental Sciences (CEPIS) (See Table 1).

TABLE 1

LIST OF PAHO PROJECTS - 1985

A) <u>Country Projects</u>		
<u>Country</u>	<u>Title</u>	<u>Project Number</u>
Antigua	Community Water Supply, Sanitation and Housing	ANI-CWS-010
Argentina	Environmental Sanitation	ARG-CWS-010
Bahamas	Environmental Sanitation	BAH-CWS-010
Barbados	Environmental Sanitation	BAR-CWS-010
Belize	Environmental Health	BLZ-CWS-010
Bolivia	Environmental Sanitation	BOL-CWS-010
	Water and Sewer Administration (Cochabamba)	BOL-CWS-030
	Institutional Development of CORPAGUAS	BOL-CWS-050
	Water and Sewer Administration (Tarija)	BOL-CWS-060
Brazil	Environmental Sanitation	BRA-CWS-010
	Institutional Development of CAGECE	BRA-CWS-020
	National Program in Institutional Development (BNH)	BRA-CWS-030
	Managerial and Operational Strengthening of the National Housing Bank (BNH)	BRA-CWS-040
Chile	Environmental Sanitation	CHI-CWS-010
Colombia	Environmental Sanitation	COL-CWS-010
	Treatment and Disposal of Wastewater in Bogotá	COL-CWS-050
	Courses on Environmental Sanitation	COL-CWS-060
	Development of the Water Sector	COL-CWS-070
	Revision and Updating of Sanitary Legislation	COL-CWS-080
Costa Rica	Environmental Sanitation	COR-CWS-010
Cuba	Environmental Health	CUB-CWS-010
Dominica	Community Water Supply, Sanitation and Housing Services	DOM-CWS-010
Dominican Republic	Environmental Sanitation	DOR-CWS-010
	Institutional Development of INAPA	DOR-CWS-020
Ecuador	Environmental Sanitation	ECU-CWS-010
	Institutional Development of EMAG	ECU-CWS-020
El Salvador	Environmental Sanitation	ELS-CWS-010
	Rural Water Supply and Sanitation	ELS-CWS-020
	Administration, Operation and Maintenance of Rural Aqueducts	ELS-CWS-030
Grenada	Community Water Supply, Sanitation and Housing Services	GRA-CWS-010
Guatemala	Environmental Health	GUT-CWS-010
	Strengthening of Potable Water Sector and Sanitation	GUT-CWS-030
	Rural Sanitation Program - Escuintla	GUT-CWS-040
Guyana	Environmental Health	GUY-CWS-010
Haiti	Environmental Sanitation	HAI-CWS-010

Honduras	Engineering and Environmental Sciences	HON-CWS-010
	International Drinking Water Supply and Sanitation Decade	HON-CWS-020
Jamaica	Water Supplies and Environmental Sanitation	JAM-CWS-010
Mexico	Environmental Sanitation	MEX-CWS-010
Nicaragua	Environmental Health, Water Supplies and Sanitation	NIC-CWS-010
	Institutional Development in INAA	NIC-CWS-020
	Institutional Development (DAR/INAA)	NIC-CWS-030
Panama	Environmental Sanitation	PAN-CWS-010
Paraguay	Environmental Sanitation	PAR-CWS-010
	Rural Water Supply and Sanitation	PAR-CWS-020
Peru	Environmental Sanitation	PER-CWS-010
	Water Supplies	PER-CWS-020
Saint Lucia	Community Water Supply, Sanitation and Housing Services	SAL-CWS-010
St. Vincent	Community Water Supply, Sanitation and Housing Services	SAV-CWS-010
St. Christopher	Community Water Supply, Sanitation and Housing Services	SCN-CWS-010
Suriname	Environmental Sanitation	SUR-CWS-010
Trinidad & Tobago	Environmental Sanitation	TRT-CWS-010
	Strengthening of Training Unit of Water and Sewerage Authority (WASA)	TRT-CWS-020
	Assistance to the Water and Sewerage Authority (WASA)	TRT-CWS-040
Uruguay	Environmental Sanitation	URU-CWS-010
	Development of Administration of National Sanitary Public Works	URU-CWS-030
Venezuela	Environmental Sanitation	VEN-CWS-010

B) Intercountry Projects

Costa Rica	Cooperation with Water and Sanitation Institutes of Central America and Panama	ICP-CWS-070
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C) Regional Projects

PAHO Head quarters	Environmental Sanitation	ICP-CWS-010
PAHO Head- quarters	Water Supply & Sanitation	ICP-CWS-030
PAHO Head- quarters	Institutional Development	ICP-CWS-050
PAHO Head- quarters	Planning for IDWSSD (International Drinking Water Supply and Sanitation Decade)	ICP-CWS-080
Lima, Peru	Pan American Center for Sanitary Engineering and Environmental Sciences	CEP-CWS-010

5. MONITORING AND CONTROL

5.1 Budget and Financial Information

The program is financed by Regular PAHO/WHO budgetary allocations, and extrabudgetary funds for special projects that are provided by UNDP, IADB, World Bank, GTZ, and national governments. The amounts budgeted for the community water supply and sanitation element of the overall PAHO effort are shown below in Table 2. These budget amounts are made up of the funding for 52 country projects, one inter-country and five regional projects (See Annex One for details of the financing for country projects, Annex Two for details of financing the inter-country project, and Annex Three for the details of financing the five regional projects.)

Table 2

Amounts Budgeted for Community Water, Sanitation and Housing Services
(From Official Document 199)*

	<u>1984-1985</u>	<u>1986-1987</u>
PAHO/WHO Regular Budget	\$10,214,000 -----	\$12,668,700 -----
All Funds	\$17,254,999 -----	\$14,636,036 -----

5.2 Implementation of Activities (1984-1989)

Between 1984-1989 PAHO plans to carry out seventy five (75) activities in its four major target areas. The following tables taken from PAHO's Medium Term Program (MTP) show the Organization's proposed activities for this period:

*These amounts include the total funds budgeted for Environmental Health activities, of which water supply and sanitation account for 60/70 percent of the total.

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
<u>Extension of Coverage</u>			
1. Promotion of the IDWSSD in the countries of the Region.	1.1 Continue the preparation of guides for action at the country level to further IDWSSD activities.	1984-1989	EHE/WHO UN Agencies ECLA
	1.2 Prepare information material for dissemination of the concepts, strategies, purposes and achievements of the IDWSSD through national mass media.	1984-1989	EHE/WHO UN Agencies ECLA
	1.3 Continue the promotion of the establishment of country coordination mechanisms (IDWSSD Country Action Committees) for the establishment of policies, the planning and implementation of IDWSSD in countries lacking this procedure, and continue supporting established committees.	1984-1989	EHE/WHO UN Agencies ECLA
	1.4 Promote the actual involvement of women as an essential human resource in IDWSSD activities.	1984-1989	EHE/WHO UN Agencies ECLA INSTRAW
2. Formulation and implementation of national plans for drinking water supplies and excreta disposal in at least 20 countries by 1989.	2.1 Promote and support the preparation of national plans for the sector and their execution in Belize, Colombia, the Dominican Republic, Ecuador, Guyana, Jamaica, Perú, Suriname, Venezuela, and countries of the English-speaking Caribbean.	1984-1989	GTZ, IDB, IBRD, AID, CIDA, CDB
	2.2 Continue supporting the implementation of national IDWSSD plans in the countries of Central America and Panama, Haiti, Bolivia, Paraguay and others that complete their national plans, including the identification of investment projects and the formulation of support programs such as institutional development, human resource, and information programs, directed at the mobilization of finance and technical cooperation.		GTZ, IDB, IBRD, UNICEF, CIDA, others

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
	2.3 Promote consultative meetings with financing agencies at the country level to enlist the support of donor and financing agencies in the execution of plans in the countries of Central America and Panama, Bolivia, Peru, and others having national plans and programs.	1984-1989	GTZ, IDB, IBRD, UNICEF
	2.4 Collaborate in the monitoring, evaluation and periodic review of national plans.	1984-1989	GTZ
	2.5 Cooperate in the regional monitoring and evaluation of the IDWSSD on the basis of the progress made under national programs.	1984-1989	EHE/WHO
3. By 1989 most of the countries will have expanded their programs for extending the coverage of drinking water supply and sewage or excreta disposal services to urban-fringe and clustered and scattered rural populations, with special attention to increasing the coverage of excreta disposal and sewerage services so as to attain levels commensurate with those of water supply services.	3.1 Develop methodologies and guides for the preparation of drinking water and sewerage and excreta disposal programs in conformity with the primary health care strategies.	1984-1989	EHE/WHO HSC
	3.2 Cooperate with drinking water supply and sanitation institutions and the health services in the preparation and execution of programs and projects for extending coverage with primary attention given to community participation, self-help, and the training of responsible staff in the framework of the primary care strategy.	1984-1989	GTZ, IDB, IBRD, HSC UNICEF
	3.3 Produce and collaborate in the production of education and training materials on water, sanitation and health in support of health workers at community level.		HSM HDP
	3.4 Collaborate in the preparation and dissemination of design criteria for the installation of collection, treatment and disposal facilities for sewage and excreta.	1984-1989	
	3.5 Conduct a regional symposium on the provision of drinking water and sewage and excreta disposal services for urban-fringe areas.	1984	AIDIS, HSM, IAWQRC, HSC, ADH

Targets

<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
3.6 Identify institutions with capabilities for preparing staff in sewage and excreta disposal, and support education and training in methods appropriate for sewage collection, treatment and disposal.	1984-1989	
3.7 Collaborate in the mobilization of local resources and coordination with international, bilateral and other agencies, including sector studies, and the identification, preparation and financing of projects, in 15 countries.	1984-1989	GTZ, IDB, IBRD, CDB
3.8 Prepare and disseminate guides for the planning and implementation of health education projects in water supply, sewerage and excreta disposal programs, and cooperate in the organization of six country workshops to promote community participation and health education.	1984-1989	EHE/PARO, GTZ HSC HSS
3.9 Collect and disseminate experiences in the extension of coverage with community participation.	1984-1989	HSC
3.10 Provide technical cooperation for the preparation and execution of programs for the extension coverage.	1984-1989	
3.11 Promote the structuring of regional and country systems for certification of the quality of materials and equipment, and the local production of the latter.	1984-1989	
3.12 Promote with the subregional economic integration groups, (Andean Pact, and Central American and Caribbean Integration) studies of the potential and development of industries for the production of equipment and materials for the water supply and sewage disposal sector in the Region.	1984-1989	Subregional Groups
3.13 Cooperate with AIDIS in increasing the participation and cooperation of producers and suppliers of materials and equipment, and of consulting firms engaging in the design and fiscalization of works, in the development of the sector.	1984-1989	AIDIS

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
4. Identification, development, evaluation and use of appropriate technologies for water supplies and particularly for excreta and sewage disposal in the Member Countries by 1989 as an aid to the attainment of coverages similar to those of water supply services.	4.1 Perform a general study of the technology in use for water supplies and for the collection, treatment and disposal of sewage and excreta, and redefine the priorities of the areas of concentration.	1984-1985	IBRD/TAC DRC
	4.2 Promote the preparation of an inventory of research projects, on the development of water supply and sewage and excreta disposal technologies in progress in the countries with a view to determining and filling needs and gaps in that research.	1984-1989	IBRD/TAC DRC IDRC
	4.3 Cooperate in the development and application of appropriate technologies for water supply and sewage and excreta disposal installations in 15 countries.	1984-1989	IDRC, IRC IBRD/TAC DRC
	4.4 Promote and support pilot studies using appropriate technologies, and disseminate de results.	1984-1989	
	4.5 Promote four subregional seminars and four country workshops on the technology of sewage and excreta disposal in order to analyse the technological problems and suggest solutions.	1984-1989	IBRD/TAC
	4.6 Publish up-to-date information on water supply, sewage and excreta disposal technologies and assist in inter-country exchanges of information on programs and experiences in the collection, treatment and disposal of sewage and excreta (REPIDISCA).	1984-1989	IBRD/TAC
5. Incorporation of the management and protection of drinking water supply sources into the programs of most of the countries by 1989.	5.1 Promote and cooperate in efforts to ensure that the needs for both surface and ground water resources are appropriately provided for by the agencies responsible for the allocation of such resources.	1984-1989	UN Agencies
	5.2 Cooperate in the development and application of techniques for the sanitary protection of surface and ground water resources for drinking water supply purposes.	1984-1989	UN Agencies
	5.3 Cooperate with drinking-water supply agencies in the development of sources of supply.	1984-1989	

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
6. Development of projects for the sanitary reuse of sewage to increase agricultural production and for other purposes in at least three countries by 1989.	6.1 Participate in studies on the epidemiological and economic implications of reusing treated and raw sewage.	1984-1989	FAO, HCE HPN IDRC IBRD
<u>Institutional Development and Optimization of Installed Service Capacities</u>			
7. By 1989 most of the countries will have programs for strengthening the managerial and operational capacity of water supply and sewage and excreta disposal institutions.	7.1 Cooperate with country institutions in the identification, preparation, execution and evaluation of programs and projects of technical cooperation for institutional and human resources development.	1984-1989	
	7.2 Develop guides, methodologies and models in support of technical cooperation for institutional and human resources development.	1984-1989	
	7.3 Cooperate in the institutionalization of human resource development processes (planning, administration and training).	1984-1989	
	7.4 Promote the establishment and maintenance of national systems for the training of personnel of the water and sanitation sector, including the participation of the educational systems.	1984-1989	
	7.5 Promote and assist in the conduct of research into the constraints that limit the proper institutional development of water supply and sanitation services in Latin America.	1984-1989	
	7.6 Cooperate in the design and conduct of activities and in the preparation of education materials for the development of human resources in the areas of managerial and institutional development, organizational systems planning, (operational, commercial, financial and administrative, manpower development and administrative support as well as project planning.	1984-1989	CAPRE IBRD/EDI

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
	7.7 Hold a regional seminar on the marketing of water supply and sanitation services.	1984-1986	
	7.8 Cooperate in the development of management, monitoring and evaluation information systems for water supply and sanitation institutions.	1984-1989	
	7.9 Promote and update the managerial processes for the development of drinking water supply and sanitation services, and prepare four management development seminars for the transfer of management processes.	1984-1989	IBRD/EDI
8. Mobilization of local and international resources for the water supply and sanitation sector, and increase of the capacity of institutions to absorb and use those resources effectively.	8.1 Disseminate and transfer methodologies, models and technologies through training activities, international events, networks of cooperating institutions, and information and documentation systems.	1984-1989	
	8.2 Plan and coordinate with the IDB, IBRD, CDB, and other sponsoring institutions the holding of four seminars on the planning of drinking water supply and sanitation projects.	1984-1989	IBRD/EDI IDB/CDB
	8.3 Cooperate in the formulation, development and implementation of policies and financial and water rate mechanisms adapted to the local conditions in three countries.	1984-1989	
	8.4 Identify nontraditional financial and material resources so as to increase the flow of finance.	1984-1985	
	8.5 Identify and support the mobilization of local and international financial resources and mechanisms for investment in installations and equipment, technical assistance and training.	1984-1989	
9. By 1989 the Member Countries will have adopted programs for strengthening their operation and maintenance capabilities with attention to the rehabilitation of installations and	9.1 Define objectives, lines of action, approaches, priorities, management models and programs of action, including mechanisms for coordinating technical cooperation in operation and maintenance.	1984-1989	

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
to optimizing the use of the installed capacity of the systems, including the control of losses in distribution systems and the optimizing of the production in treatment plants, using appropriate technologies.	9.2 Hold four subregional seminars on the strengthening of managerial capacities for operation and maintenance.	1984-1989	
	9.3 Cooperate in the formulation of country programs and projects for the operation and maintenance of water supply and sewerage systems and of technical cooperation projects.	1984-1989	
	9.4 Promote and support a seminar for managers of leading water supply institutions in the countries of the Region for the purpose of examining the technical, economic, social and political aspects of water losses in water supply systems and the need for controlling them.	1985	
	9.5 Promote five country workshops in macrometering, leakage control, pitometry, operations control, micrometering, and cadastre of distribution networks as part of the strategy for establishing or improving those services.	1984-1989	
	9.6 Cooperate with ten countries in the study of losses in large and intermediate cities and in the establishment of control programs.	1984-1989	
	9.7 Disseminate information on control programs in progress and cooperate in the introduction of loss reduction programs as components of institutional development.	1984-1989	
	9.8 Promote the search of new design, construction and distribution criteria through the conduct of personnel training and research programs.	1984-1989	
	9.9 Cooperate with at least ten countries in the restoration and optimization of the installed capacity of water treatment plants, the preparation of evaluation, design, construction, operation and maintenance methodologies, and conduct of four subregional courses on these topics.	1984-1989	

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
	9.10 Publish and disseminate technical, operational and managerial information on the operation and maintenance of water supply and sewerage systems through REPIDISCA.	1984-1989	
10. By 1989 the countries of Latin America and the Caribbean will have improved their preparations for coping with disasters in the area of drinking water supplies and sewage and excreta disposal.	10.1 Cooperate with the countries in strengthening their national capacities for dealing with the more frequent disasters.	1984-1989	PED ¹
	10.2 Promote and collaborate with PED in the conduct of four regional and subregional workshops on disaster preparedness covering floods, earthquakes and hurricanes, with the participation of countries in which such disasters are frequent.	1984-1989	PED
<u>Drinking-Water Quality</u>			
11. By 1989 the Member Countries will have improved the control of drinking water quality.	11.1 Promote and support evaluations of the quality of the water supplied to rural and urban populations in the Member Countries and identify the chief impediments to its improvement.	1984-1989	
	11.2 Identify and promote appropriate technologies for use in programs for improving the quality of drinking water in six countries, with emphasis on its disinfection.	1984-1989	
	11.3 Develop and implement demonstration projects for improving the quality of drinking water in two countries of the Region.	1984-1989	
	11.4 Disseminate WHO's Guidelines for Drinking-Water Quality to the Member Countries.	1984-1989	EHE/WHO
	11.5 Conduct two workshops and four seminars to promote and update the drinking-water quality standards of countries; and for the development and strengthening of their drinking-water quality improvement programs, with emphasis on disinfection.	1984-1989	
	11.6 Select appropriate manuals and technical documents on drinking-water quality for dissemination through REPIDISCA.	1984-1989	

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
	11.7 Promote and cooperate in the design and organization of a system or network for analytical quality control of laboratories (PRELAB).	1984-1989	
	11.8 Promote and cooperate in the strengthening of programs for the surveillance of drinking-water quality in the ministries of health, including planning, methodologies, legislation, and coordination.	1984-1989	
	11.9 Provide technical cooperation for improving the operation and maintenance of water treatment systems to ameliorate water quality.	1984-1989	
12. By 1989 at least 20 countries will have adopted fluoridation for the population served through water supply systems providing optimum levels of fluoride in the drinking water for the improvement of dental health.	12.1 Provide technical cooperation to 20 countries for launching or expanding national programs for fluoridation or the removal of excess fluorides from drinking water, as needed.	1984-1989	HSC
	12.2 Conduct five technical courses on water fluoridation.	1984-1989	
	12.3 Review, update and disseminate technical and instructional publications on fluoridation through REPIDISCA.	1984-1989	
	12.4 Promote the identification of industrial production sources of fluoride and the location of natural calcium fluoride deposits in the countries.	1984-1989	
<u>Information Systems and Textbooks</u>			
13. By 1989 twenty countries will have national information centers linked to REPIDISCA and will maintain an ongoing flow of information, generation, integration, dissemination and use, primarily on water supply and sewerage and excreta disposal.	13.1 Cooperate in the planning, establishment and operation of national information centers, networks and services, and promote their integration into REPIDISCA.	1984-1989	INFOTERRA IDRC
	13.2 Support and participate in five training activities, including the preparation of teaching materials, on the design, establishment and operation of information centers.	1984-1989	
	13.3 Prepare, update and disseminate sets of documents on specific subjects in the sector as a means of support the transfer of information to country institutions.	1984-1989	

<u>Targets</u>	<u>Activities</u>	<u>Period</u>	<u>Linkages</u>
	13.4 Generate, maintain and use data bases for the production of guidelines and of directories and catalogs of programs, institutions, specialists, research projects in progress, etc.	1984-1989	
	13.5 Coordinate activities with other information systems so as to broaden the data base and, in general, to keep the system current.		
14. Strengthening of PARO's Textbook Program in the environmental health field.	14.1 Prepare and cooperate in the preparation and distribution, of four textbooks on water supply and sanitation.	1984-1989	HSM PALTEX ADP

6. PARTICIPATING PERSONS, GROUPS AND INSTITUTIONS

6.1 List of Sanitary Engineers and Related Professional Personnel at Headquarters and Field Offices.

<u>Name</u>	<u>Title</u>	<u>Project No.</u>
<u>Washington Headquarters Office - Environmental Health Program (HPE)</u>		
DAVILA, Mr. Guillermo	Program Coordinator	ICP-CWS-010
ACURIO, Mr. Guido	Sanitary Engineer	ICP-CWS-010
CORDERO, Olman	Sanitary Engineer	ICP-CWS-030
DONALDSON, David	Sanitary Engineer	ICP-CWS-030
DURAO, Dr. Alvaro	Medical Officer	ICP-OCH-010
GONIMA, Alberto	Sanitary Engineer	ICP-CWS-050
OTTERSTETTER, Horst	Sanitary Engineer	ICP-CWS-010
REID, Raymond	Sanitary Engineer	ICP-CWS-030
REIFF, Fred	Sanitary Engineer	ICP-CWS-030
RIVERA C., Antonio	Sanitary Engineer	ICP-CWS-010

Pan American Sanitary Engineering and Environmental Sciences (CEPIS)

FLOREZ, Alberto	Director of Center	CEP-CWS-010
BARTONE, Carl	Systems Analyst	CEP-CWS-010
HUEB, José	Sanitary Engineer	CEP-CWS-010
SAENZ F., Rodolfo	Sanitary Engineer	CEP-CWS-010
SALAS, Henry	Sanitary Engineer	CEP-CWS-010
SOSA PADILLA, Héctor	Information Scientist	CEP-CWS-010
Vacant	Water Supply Specialist	CEP-CWS-010
Vacant	Sanitary Engineer	CEP-CWS-010
Vacant	Sanitary Engineer	CEP-CWS-010

Countries

Bolivia

SANCHEZ, Luis Ignacio	Sanitary Engineer	BOL-CWS-010
BARBOZA, Rodrigo	Project Manager	BOL-CWS-030
RODRIGUEZ, Juan Bautista	Sanitary Engineer	BOL-CWS-060

Brazil

Vacant	Sanitary Engineer	BRA-CWS-010
SANCHEZ CLAROS, Humberto	Sanitary Engineer	BRA-CWS-010
ROJANO, Guillermo	Technical Officer	BRA-CWS-020
Vacant	Management Advisor	BRA-CWS-030
VERGARA, Carlos	Project Manger	BRA-CWS-040
LIMA, Francisco A.	Management Advisor	BRA-CWS-040

<u>Name</u>	<u>Title</u>	<u>Project No.</u>
<u>Colombia</u>		
GAMBOA, Roger	Sanitary Engineer	COL-CWS-010
<u>Costa Rica</u>		
GODOY, José	Sanitary Engineer	COR-CWS-010
<u>Dominican Republic</u>		
LOPEZ C., Vicente R.	Sanitary Engineer	DOR-CWS-010
OSPINA, Jorge	Program Coordinator	DOR-CWS-020
SOARES, Luiz Carlos Rangel	Admin. Methods Officer	DOR-CWS-020
<u>Ecuador</u>		
HEDERRA, Raimundo	Sanitary Engineer	ECU-CWS-010
MADUREIRA, José	Project Manager	ECU-CWS-020
<u>El Salvador</u>		
AMORIM, Valter Pedrosa de	Sanitary Engineer	ELS-CWS-010
<u>Guatemala</u>		
CASTRO, Alejandro	Sanitary Engineer	GUT-CWS-010
<u>Guyana</u>		
Claude Schleyer	Sanitary Engineer	GUY-CWS-010
<u>Haiti</u>		
NIYUNGEKO, Terence	Sanitary Engineer	HAI-CWS-010
CASTELLON, Guido O.	Sanitarian	HAI-CWS-010
<u>Honduras</u>		
PEREZ, José	Sanitary Engineer	HON-CWS-010
<u>Jamaica</u>		
WASHINGTON, Donald	Sanitary Engineer	JAM-CWS-010
<u>Mexico</u>		
JIMENEZ R., Julio Roberto	Sanitary Engineer	MEX-CWS-010

<u>Name</u>	<u>Title</u>	<u>Project No.</u>
<u>Paraguay</u>		
LEAL FERRO, Luis A.	Sanitary Engineer	PAR-CWS-010
DUTILH, Marcelo	Project Manager	PAR-CWS-021
<u>Peru</u>		
CUNEO, Carlos	Sanitary Engineer	PER-CWS-010
<u>Suriname</u>		
BISWAS, Niharendu	Santary Engineer	SUR-CWS-010
<u>Trinidad & Tobago</u>		
Vacant	Sanitary Engineer	TRT-CWS-010
Vacant	Technical Officer	TRT-CWS-040

6.2 Other Participants

AMRO has a roster of short-term consultants and temporary advisors from which selection is made. Consultants are employed in several fields according to their skills and the requirement of Country and Regional projects. The consultant roster is presently computerized. All relevant information is available through this system. A summary of the number of consultants for 1984-85 is presented as Annex 4.

6.3 Participating Agencies and Groups

1. International agencies, institutions and groups participating in this program include: Inter-american Development Bank, World Bank, GTZ, UNDP, IDRC, Caribbean Development Bank and AIDIS.
2. National agencies, institutions and groups participating or interested in participating in this Program:

In most countries, there is a semi-autonomous national water and sewerage authority. These institutions usually are active in the main cities, the secondary cities and the larger villages. Examples of these are: Instituto Costarricense de Acueductos y Alcantarillado (AyA) in Costa Rica, Servicio Autónomo Nacional de Acueductos y Alcantarillados (SANAA) in Honduras, Obras Sanitarias del Estado (OSE) in Uruguay, and Instituto Nacional de Obras Sanitarias (INOS) in Venezuela. In many countries, village water supplies and sanitation are handled by specialized institutions that are coordinated with, but separate from, the previously mentioned national institution. Example of "village" institutions are: Unidad Ejecutora del Programa de Acueductos Rurales (UNEPAR) in Guatemala, and Instituto de Salud (INS) in Colombia. The semi-concentrated and dispersed populations are usually attended to by the Division of Environmental Health of the Ministry of Health.

PAHO collaborates and coordinates closely with each of these agencies as it seeks to assist countries design and implement Decade activities.

3. National Professional Groups:

There exists professional groups and associations in nearly every country of the Region. These consist of local chapters of the Inter-American Association of Sanitary Engineers (AIDIS), national engineering associations and other professional associations. Examples of these groups are: ABES of Brazil, Asociación Colombiana de Ingeniería Sanitaria y Ambiental (ACODAL), Colegio de Ingenieros and American Waterworks Association (AWWA).

In developing its efforts, PAHO works closely with these groups in developing national congresses, seminars and workshops on Decade subjects. The Organization also encourages these groups to develop national policy relating to such Decade elements as: identifying local financial, human, technical and managerial resources; improving operation and maintenance; improving drinking water quality; etc.

7. ESSENTIAL REPORTS, DOCUMENTS AND PUBLICATIONS

The following WHO and PAHO documents present the basic philosophy and guidelines for this program area. They also provide details of the areas of work that have been carried forward by the different elements of the programs:

- Drinking Water Supply and Sanitation - The International Decade in the Americas: Environmental Series No. 3. PAHO, Washington, D.C. (1983)
- Water, Health and Development: Report to the IV World Congress of the International Water Resources Association.
- Annual Report of the Director of PASB, 1982 - Environmental Health.
- Report of the Director-General on the Work of WHO to the World Health Assembly: The Americas - Environmental Health, 1982.
- Environmental Health Program Budget, 1984-1985/1986-1987: PAHO Official Document No. 187, PAHO, Washington, (1983).
- Guidelines for Community Participation in Drinking Water Supply and Sanitation Program. PAHO, Washington, D.C.
- "Strategies for the International Drinking Water Supply and Sanitation Decade," published in the Water Drinking Bulletin.
- Environmental Health Program Input to the Report for the Executive Committee on Women in Health and Development, PAHO, Washington, (June 1983).
- Report of country-level activities to the Steering Committee of the IDWSSD.
- Strategies for Extending and Improving Potable Water Supply and Excreta Disposal During the Decade of the 1980's: Scientific Publication No. 390. PAHO, Washington, D.C. 1979.
- "Salud y Saneamiento Ambiental Frente a la Urbanización Intensiva y la Pobreza Urbana en la Región de las Américas: PAHO contribution to the FAO Meeting of Experts, Bogota, Colombia, (May 1983).
- Progress Reports on Activities Related to the Cooperative Project between WHO and the West German Technical Cooperation Agency (GTZ) on Planning for the IDWSSD in Haiti, Bolivia, Paraguay, Peru, Honduras, and the Central American Training Projects.
- Women, Health and Development to the Regional Plan of Action for Health for All by the Year 2000: Environmental Health, PAHO, Washington, D.C.

- Programming and Budgeting of PAHO Technical Cooperation - AMPES.
- Health for All by the Year 2000, Regional Strategies: PAHO Official Document No. 173. PAHO, Washington, D.C. (1982)..
- Spanish Translation of WHO Publication on National and Global Evaluation and Monitoring for the IDWSSD.
- Environmental Health: National and Regional Activities in the Americas: Environmental Series No.2. PAHO, Washington, D.C. (1982).
- Potable Water and Environmental Sanitation, 1981-1990: Scientific Publication No.431. PAHO, Washington, D.C. (1982).
- Environmental Health Activities in the Pan American Health Organization: Environmental Series No.1. PAHO, Washington, D.C. (1981).
- Health for All by the Year 2000, Plan of Action: Official Document No.179. PAHO, Washington, D. C. (1982).
- Progress of the International Water Supply and Sanitation Decade in the Americas: PAHO, (1984).
- Strategy for WHO's Participation in the International Drinking Water Supply and Sanitation Decade: EHE 82/29. WHO, Geneva (1982).
- Monitoring the Implementation of the Strategy for WHO's Participation in the International Drinking Water and Sanitation Decade: CWS/83.1. WHO, Geneva (1983).
- The International Drinking Water Supply and Sanitation Decade and its implications in the Light of the first three years of its implementation: CWS/84.1,. WHO, Geneva (1984).

8. RELATED PROGRAMS AND PROJECTS

In developing their Decade efforts, PAHO has dealt with over 45 institutions besides the Divisions of Sanitary Engineering of the Ministries of Health (MOH/DSA). Of these, 8 were international agencies and over 35 were national authorities and Decade Committees. (See Table 4).

TABLE 4

AGENCIES/INSTITUTIONS THAT PARTICIPATED WITH PAHO IN COUNTRY PROJECTS
DURING 1984-85

Country Name	National Agency	Bilateral Agency	Non-governmental Agency	I N T E R N A T I O N A L							Decade Commitment	Decade Plan
				IBRD	IADB	CDB	UNICEF	UNDP	IRC	IDRC		
Argentina	OSN, MOH	No	No	Yes	Yes	No	Yes	No	No	No	Yes	
Bahamas	MOH	No	No	Yes	No	Yes	No	No	No	No		
Barbados	BWA, MOH	No	No	No	Yes	Yes	No	No	No	No		
Belize	MOH, AID	No	No	No	Yes	Yes	No	No	No	No		
Bolivia	Cochabamba-CORPAGUAS Tarija-CODETAR, SEMAPA MOH(DSA), MUV	GTZ/AID	No	Yes	Yes	No	No	No	No	No	Yes	Yes
Brazil	BNH, State Agencies, MOH, FSESP, IPEA	No	No	Yes	No	No	No	No	No	No		
Chile	MOH, SENDOS	No	No	No	No	No	No	No	No	No	Yes	
Colombia	EAAB, INSFOPAL, ACODAL, Dept. of Ping.	No	No	Yes	No	No	No	No	No	No		
Costa Rica	AyA, MOH(DSA)	GTZ/OPEP	No	No	Yes	No	No	No	No	No		
Cuba	Acueducto Habana	No	No	No	No	No	No	Yes	No	No		
Dominican Republic	CAASD, INAPA, MOH	No	No	No	Yes	No	No	No	No	No		
Ecuador	EMAG, IEOS, MOH	AID	No	No	Yes	No	No	No	No	No		
El Salvador	CONIAPOS*, MOH(DSA), ANDA	GTZ/AID	No	No	Yes	No	Yes	No	No	Yes	Yes	
Guatemala	COPECAS*, MOH(DSA), EMPAGUA	GTZ	No	Yes	Yes	No	No	Yes	No	No	Yes	Yes
Guyana	GUYWA EEC	Yes (Women's Group)	No	No	Yes	Yes	No	No	No	No		
Haiti	CONADEPA*, SNEP	GTZ	No	Yes	Yes	No	Yes	No	No	No	Yes	Yes
Honduras	SANAA, MOH(DSA) Decade Committee*	GTZ/OPEP/Switz. Group)	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	
Jamaica	AID/CARE NWC Decade Committee*	Israel	No	No	No	Yes	Yes	Yes	Yes	No	Yes	
Mexico	SARH, SEDUE, Empresas de Tijuana		No	Yes	Yes	No					Yes	
Nicaragua	INAA	No	No	Yes	No	No	No	No	No	No		
Panama	IDAAN	No	No	No	No	No	No	No	No	No		
Paraguay	CORPOSANA, SENASA	GTZ	No	Yes	Yes	No	No	No	No	No	Yes	Yes
Peru	Decade Committee* SENAPA, SEDAPAL, MOH	GTZ	No	Yes	Yes	No	No	No	No	No	Yes	Yes

*Decade Committee

TABLE 4 (cont'd.)

Country Name	National Agency	Bilateral Agency	Non-governmental Agency	INTERNATIONAL							Decade Commitment	Decade Plan
				IBRD	IADB	CDB	UNICEF	UNDP	IRC	IDRC		
Suriname	SWCO	No	No	No	No	Yes	Yes	Yes	No	No		
Trinidad	WASA	No	No	No	Yes	Yes	No	Yes	No	No		
Uruguay	OSE	Spain	No	Yes	Yes	No	No	No	No	No	No	
Venezuela	IEOS	No	No	No	Yes	No	No	No	No	No		
<u>Inter-country Projects</u>												
<u>-Priority Plan for</u>												
Health	Yes*	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	-	-
<u>-Subregional O&M</u>												
Training (CAPRE)	Yes	GTZ	No	No	Yes	No	No	No	No	No	-	-
<u>-Central America</u>												
<u>Priority Health Actions</u>												
<u>-Caribbean Initiative</u>												
<u>-Caribbean Basin</u>												
Water Management Project	Yes	CIDA	No	No	No	Yes	No	No	No	No		
<u>-Cooperative Program PAHO/IADB</u>												
		No	No	No	Yes	No	No	No	No	No		

ACRONYMS

IBRD
IADB
CDB
IRC
IDRC
MOH
BNH
GTZ
WASA, OSN, IEOS, SENAPA,
CORPOSANA, SENASA, IDAAN,
INAA, SANAA, SNEP, EMAG,
SENDOS, etc.

DEFINITIONS

International Bank for Reconstruction and Development (World Bank)
Inter-American Development Bank
Caribbean Development Bank
International Reference Center (Holland)
International Development Research Center
Ministry of Health
Banco Nacional de Habitacao
German Agency for Technical Cooperation

National water and sanitation authorities for various countries

*Decade Committee

9. EVALUATION

9.1 Monitoring and Evaluation

Monitoring and evaluation of the water supply and sanitation program is an integral part of PAHO's global strategy for the Decade.

In the Americas, PAHO is cooperating with its Member Countries in monitoring and evaluating the progress of the program toward the goals of HFA/2000. To this end it is developing a Regional monitoring and evaluation system concordant with the Plan of Action for the Implementation of Regional Strategies for Attaining the Goal of Health for All by the Year 2000. The Regional system is being coordinated with WHO's Global System, and promotes and cooperates in the strengthening and implementation of national systems so that they will provide the minimum information needed for the monitoring and evaluation of plans for the Decade at the national, regional and global level. PAHO has specific responsibilities here at both the national and Regional level.

9.2 Indicators

The Plan of Action for HFA/2000 suggests as indicators: the number of projects carried out; the population served by different levels of service; and, the number of water samples analyzed and found of acceptable quality. The evaluation and monitoring promoted by WHO for the Decade emphasize the design of indicators by the countries to improve the planning and management of water supply and sanitation systems, in respect to the above PAHO is promoting and cooperating with the countries in the development of management information systems and monitoring and evaluation of their institutions and national programs.

Indicators in use by PAHO for monitoring the Decade are:

- Coverage: The numbers of people and percentages of the population served by house connections and easy access supplies in each country and in the urban and rural settings, and the numbers and percentages of urban and rural population with sewerage and excreta disposal services.
- Water Quality: Availability of quality standards and programs in progress.
- Number of countries having adopted the Decade approach.
- Number of countries reporting improvement in health.
- Investments of domestic and foreign resources made.

9.3 Project Summary Sheets

In mid 1984 PAHO asked the countries to review the 1983 Project Summary Sheets and where appropriate to update them. They were particularly asked to indicate special progress/difficulties and/or recommendations that have developed in the last two years. Annex 1 presents the results of this effort.

Annex One

Description of Country Projects (Country)

TABLE 1

Evaluation Summary of Progress/Problems/Recommendations for Country Projects
(1984-85)

Country	Promotion		Institutional		Human		Information and		Mobilizing local and		Recommendations for Future Action
	of Decade		Development		Resources		Technology		Financing resources		
	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems	
ARG**	PD, NG	1	SC on ID	3	SC on HRD		1	CP(REPDI)	1	-	-Need to reactivate NAC; to promote more Decade Activities in ID/HRD
BAH***	PD, NG	-	-	-	-	-	-	-	PP	3 (Carib)	-Organize NAC and develop IDWSS strategy
BAR***	PD	1, 3	-	-	CP (HRD)		-	-	PP	3 (Carib)	-Organize NAC and develop IDWSS strategy
BLZ***	PD, CPA	1	CPA (ID)	-	CPA (HRD)	-	-	-	PP	3 (CA)	-Worked to obtain financial support from AID, UNICEF, CARE for RWSS program
BOL*	NS, DP, UP NG	2, 3	EB(Coch.)- EB(Corp.) EB(Tarija)-		HRD, CP	-	-	-	PP (RWS)	1	-Develop consultative and project preparation meetings with focus on O&M in RWSS projects; continue lagoon efforts with GTZ
BRA*	DP, PP, NAC NG	1, 3	EB(3 Proj)	1, 3	HRD	2	TC, SC, FL	1, 2	PP (BNH)	2	-Support RWS project with IBRD
CHI**	PD, NG	1	-	-	SC, TS	1	-	-	-	-	-Organize NAC and develop IDWSS strategy
COL**	NS, PD, NG	1	PD, EB	-	PD	1	CP(REPID)	1	PD	1, 3	-Develop National Action Plan and funding sources for RWSS -Follow-up PHC effort with (MOH)
COR***	PD, NAC, CPA	1	EB (WB)	1, 2	HRD	1	-	-	CPA	2, 3 (CA)	-Continue developing prefeasibility projects for financing agencies for Priority Health Projects; work with MOH in area of PHC
CUB	PD	1	-	-	-	-	CP(REPID)	1	PP	-	-Cuba has identified four investment projects
DOM	PD	1	-	-	-	-	-	CP(Wat.Q.)	1	-	-Organize NAC and develop IDWSS strategy
DOR***	PD, OC, NG	1	EB(IADB)	1	HRD, PD	1	PD, FL, TS	1, 2 (Meter) FL	PP	1 2	-Need to form NAC and to develop prefeasibility projects for slums, O & M and sanitation

* Country has developed a national plan.

** Country has started work on a national plan.

*** Country has developed a national strategy.

TABLE 1 (cont'd.)

Evaluation Summary for Country Projects
(1984-85)

	Promotion		Institutional		Human		Information and		Mobilizing local and		Recommendations for Future Action		
	of Decade		Development		Resources		Technology		Financing resources				
	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems			
Eastern Caribbean***	PD, PP	1	-	-	-	-	TS,CP(INF)	1	-	-	-Organize NAC and develop IDWSS strategy		
ECU**	NAC,PD,NG	1	EB	1	PP	1	EB(REPID)	1	-	-	Start work in peri-urban slums and RWSS programs; continue work in information area with EMAG		
ELS*	NS,DP,NAC NG	2, 3	EB(7 PROJ)	1	TC, SC	1	CP(2)	1,2	CPA	2, 3 (CA)	-Continue supporting NAC program; continue latrine program and upgrade RWS project		
GRE GUT*	PD NS,DP,NAC CPA, NG	-	-	-	EB(UNDP)	1,2	SC, CPA	2	CP	2	IPP	2, 3 (CA)	-Support UNDP sponsored effort to develop a national ID project; strengthen efforts in sanitation area
GUY***	PD, NG	1	-	-	-	-	SC (INF)	1	PD	-	3 (Carib)	-Support national efforts for information system development	
HAI*	NS,DP,NGI	2	PP(RWS)	3	PP, HRD	-	-	-	PP, CPA	-	3 (Carib)	-Help identify funding sources for priority WSS projects, giving preference to RWSS and slum efforts	
HON*	DP,UD,NG	1, 2	-	-	HRD	-	-	-	PP, CPA	-	3 (C.A.)	Identify WSS projects for financing under CA initiative; develop women and water project	
JAM**	PD, OC	1	-	-	-	-	-	-	-	-	-	-Support national activities to develop national Decade plan	
MEX	PD, NG	1	PP (OM)	2, 3	-	-	TS,PP(INF)	1	-	-	-	-Support development of O&M and leak control project	

* Country has developed a national plan.

** Country has started work on a national plan.

*** Country has developed a national strategy.

Table 1 (cont'd.)

Evaluation Summary for Country Projects
(1984-85)

Country	Promotion		Institutional		Human		Information and		Mobilizing local and		Recommendations for Future Action
	of Decade		Development		Resources		Technology		Financing resources		
	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems	
NIC	PD, NAC, NG	1, 2	CP	1	SC	2	TS	1, 2	PP, CPA	3 (C.A.)	-Continue support for simple treatment plant courses and optimizing drinking water systems; identify WSS projects for financing under CA initiative
Northern Caribbean	PD	1	-	-	HRD	2	-	-	-	-	-
PAN***	PD, NG	1	SC	2	HRD	1	-	-	PP, CPA	2, 3 (C.A.)	-Identify WSS projects for financing under CA initiative
PAR*	PD, NG	1	CP (RWS)	2	HRD	2	-	-	PP	3	-Support national effort in slum and rural areas that could be financed by IADB and UNICEF
PER*	NS, NAC, CM	1	-	-	-	-	CP	2	PP	3	-Support activities of NAC; continue research into lagoons and slow sand filters
SUR*	-	-	-	-	-	-	-	-	-	-	-Organize NAC and develop IDWSS strategy
TRT***	PD, NG	1	-	-	-	-	-	-	-	-	-Organize NAC and develop IDWSS strategy
Uruguay	PD, NG	1	CP	2	-	-	-	2	IPP	2	-Organize NAC and develop IDWSS strategy
Venezuela	PD	-	-	-	-	-	-	-	-	-	-Organize NAC and develop IDWSS strategy

* Country has developed a national plan.

** Country has started work on a national plan.

*** Country has developed a national strategy.

Table 1 (cont'd.)

Evaluation Summary of Progress/Problems/Recommendations for Country Projects
(1984-85)

Country	Promotion		Institutional		Human		Information and		Mobilizing local and		Recommendations for Future Action
	of Decade		Development		Resources		Technology		Financing resources		
	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems	Progress	Problems	
Subregional Projects (CAPRE)	-	-	EB	1	-	-	-	-	-	-	Develop country-level training elements
	PROGRESS				PROBLEMS						
PD =	Country in Promotion phase of Decade				1. Only had general activity during this period						
OC =	Organizing Decade Committee				2. Carried on specific activities during period						
EB =	Have extrabudgetary project				3. Held discussions with financing agencies to obtain financing for IDWSS project						
NAC=	Have National Action Committee										
DP =	Have Decade plan										
CM =	Held consultative meeting										
TS =	Conducted training seminar										
SC =	Country has conducted short courses										
CP =	Continued on-going project										
PP =	Prepared projects for financing										
UD =	Updating Decade plan										
NS =	Held national Decade seminar										
CPA =	Country participated in Central American Priority Health Project effort										
NG =	Have national IDWSS goals for 1990										
HRD =	Continued on-going HRD effort										
FL =	Conducted fluoridation effort										

PROJECT SUMMARY SHEETS
(COUNTRY)

Country: Argentina

Title: Environmental Sanitation

Project No.: ARG-CWS-010

Objectives and Targets: Assist the government in meeting water decade objectives.

Assist the government in improving the operational and administrative capacity of the water and basic sanitation sector, especially in the urban fringe and rural areas.

Collaborate with the national authorities in the identification, design and development of studies and project preparation efforts for the sector. Additional efforts will be carried out to improve the availability of information within the sector.

Project Description: PAHO's technical cooperation is aimed at improvement in the human, technical, financial and managerial resources of the sector. The Organization cooperates with the Ministry of Health and other agencies to improve coverage, upgrade service and strengthen the national institutions.

BUDGET: 1984-85 (US\$331,601) 1986-87 (US\$344,800)

	Proposed	Being Organized	Functioning
National Action Committee	Exists,	but not	functioning
National Decade Plan	Has set IDWSS goals for 1990		

Country: Bahamas

Title: Environmental Services

Project No.: BAH-CWS-010

Objectives and Targets: Assist the Government in improving basic sanitation services.

Project Description: The project considers the strengthening of the department of environmental services, particularly with regard to its monitoring functions and the improvement of solid waste services. Technical assistance has been provided in several aspects including water quality control.

A review of the management of the Bahamas Water Corporation is being carried out in collaboration with the World Bank with the possibility of future investments in the water supply of Nassau, New Providence.

BUDGET: 1984-85 (US\$43,300) 1986-87 (US\$101,000)

	Proposed	Being Organized	Functioning
National Action Committee			
National Decade Plan		Has set IDWSSD goals for 1990	

Country: Barbados

Project No. BAR-CWS-010

Title: Environmental Sanitation

Objectives and Targets: Improve environmental health services.

Description of Project: Barbados attaches high priority to its environmental health program. With tourism being one of the main pillars of the economy, the importance of solid waste disposal, the sanitary disposal of human waste, and the maintenance of high standards of drinking water and food hygiene assume crucial importance. It has recently constructed a sewer system for the city of Bridgetown, and has established a Water Authority with responsibility for water and sewerage services. The project provide technical support to the Ministry of Health and the Barbados Water Authority, particularly in the area of training and institutional development including management information systems laboratory.

BUDGET: 1984-85 (US\$96,600) 1986-87 (US\$111,600)

	Proposed	Being Organized	Functioning
National Action Committee			
National Decade Plan		Needs to set IDWSS goals for 1990	

Country: Belize

Project No. BLZ-CWS-010

Title: Environmental Health

Objectives and Targets: Provide technical assistance to the Government to meet the water decade goals and to improve environmental services.

Description of Project: PAHO's technical cooperation is aimed at improvement of rural water supply and basic sanitation services, particularly in the rural areas, establishment of adequate water quality monitoring services and practices, and improvement of the food and meat hygiene program.

Program components will include the training of national personnel, both locally and through fellowships to ensure adequate environmental health manpower, review and updating of existing sanitation procedures and corresponding legislation, and education of the community.

Technical assistance were provided in project preparation for the decade. Plans are made for a sector review of the management of the Water Authority. The sector is receiving financial assistance from CIDA.

BUDGET: 1984-85 (US\$90,800)
1986-87 (US\$60,000)

	Proposed	Being Organized	Functioning
National Action Committee			
National Decade Plan		Needs to set IDWSS goals for 1990	

Country: Bolivia

Project No. BOL-CWS-010

Title: Environmental Sanitation

Objectives and Targets: Assessment of sector plans and development of sector strategy under present and short-term economic trends, concentrations on operation and maintenance human resources development and community participation, including preparation of priority projects. Preparaton of a three-to-five-year plan for water supply and sanitation in rural areas and prepare priority projects. Strengthen the managerial and operational capacity of the Environmental Sanitation Division of the Ministry of Health, which is responsible for rural water supply and sanitation. Training of the technical personnel in charge of rural water and sanitation activities in the country departments in preparation of projects, operation and maintenance.

Project Description: Provide technical assistance to the sector institutions responsible for rural water supply and sanitation in the following areas: preparation of a three-to-five-year rural water supply and sanitation plans, strengthen of the area of operation and maintenance national tariff study, and preparation of priority projects.

BUDGET: 1984-85 (US\$205,300) 1986-87 (US\$321,600)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	Is functioning
National Decade Plan	-	-	Plan has been completed and is being updated

Country: Bolivia

Project No. BOL-CWS-030

Title: Water and Sewer Administration (Cochabamba)

Objectives and Targets: To strengthen the management and operational capacity of the water and sewer administration of Cochabamba.

Project Description: Through this IADB sponsored technical cooperation, PAHO will collaborate with Cochabamba to improve management procedures, optimize operational efforts, and upgrade the agencies' human resource development capability. In addition, the project will assist Cochabamba to be better able to review and integrate simple low-cost technologies.

BUDGET: 1984-85 (US\$190,006) 1986-87 (US\$-----)

Country: Bolivia

Project No. BOL-CWS-050

Title: Institutional Development of CORPAGUAS

Objectives and Targets: To cooperate with the national drinking water and sanitation authority (CORPAGUAS) to: a) improve its operational capacity; b) develop plans that will allow it to meet the goals set for the IDWSS Decade.

Project Description: In this World Bank sponsored project, PAHO will cooperate with CORPAGUAS to: a) improve its procedures and methodology in order to improve its operational capacity especially in the areas of planning, design and construction, operation and maintenance, billing, supplies and warehousing, finances and information; b) identify and formulate specific Decade type projects; c) strengthen the coordination mechanisms between CORPAGUAS and the other institutions of the sector.

BUDGET: 1984-85 (US\$159,952) 1986-87 (US\$-----)
National Decade Plan

Country: Bolivia

Project No. BOL-CWS-060

Title: Water and Sewer Administration (Tarija)

Objectives and Targets: To provide in-service training to the staff of CODETAR for the supervision and control of the water and sewerage works of Tarija.

Project Description: This IADB sponsored project will train staff of CODETAR in operation and maintenance techniques, as well as promote the technology transfer in such areas as: 1) infiltration galleries; 2) water system networks; 3) metering; 4) principal and secondary collectors; 5) domestic connections; and 6) oxidation lagoons.

BUDGET: 1984-85 (US\$179,308) 1986-87 (US\$270,252)

Country: Brazil

Project No. BRA-CWS-010

Title: Environmental Sanitation

Objectives and Targets: Strengthen management and operations of COSAN/BNH. Development of institutional capability of national agencies in Brazil (BNH).

Project Description: Technical cooperation to COSAN in the field of information, contract procedure and supervision cooperating in the diagnostic studies of the operational situation and relationship with other sector institutions, develop a work program establishing objectives and strategies, cooperate with COSAN in the implementation of these activities, and disseminate this experience to other sector agencies.

The BNH program established technical cooperation in institutional development of the state sanitation companies PRODISAN. It involved the development of methodologies and conditions to guarantee the strengthening of PRODISAN. It included the following: formulation and establishment of policies, norms and procedures to orient the management of the state companies, definition of basic organization for planning, establishment of systematic analysis for evaluating financing applications and management of financial resources.

BUDGET: 1984-85 (US\$608,200) 1986-87 (583,200)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	x
National Decade Plan	-	-	x (PLANASA)

Country: Brazil

Project No. BRA-CWS-020

Title: Institutional Development of CAGECE

Objectives and Targets: To implement the Master Plan of institutional development for the water and sanitation company for CAGECE.

Project Description: This BNH sponsored project will provide assistance regarding: a) management advice for the institutional development of the company; b) identification, programming and evaluating human resources development efforts; c) implementation of systems in: billing and collecting, identification of consumers, recovery of debt, global planning, budget control, information, management of projects, operation and maintenance, accounting, administration of financial resources, and supplies; d) how to inform the other water/sanitation companies of Brazil as to the experiences of CAGECE.

BUDGET: 1984-85 (US\$218,194) 1986-87 (\$,)

Country: Brazil

Project No. BRA-CWS-030

Title: National Program in Institutional Development (BNH)

Objectives and Targets: Technical cooperation on how to manage BNH's institutional development subprogram for the state-owned water and sanitation companies (PRODISAN).

Project Description: This BNH sponsored project will establish the methodologies to be used by PRODISAN. It will define the basic elements of organization in the technical and management area in order to permit the planning, execution and control of this program. Specifically, it will: a) formulate and help establish policies, standards and procedures that will orient the commercial aspects of the companies; b) establish a systematic analysis and evaluation of the financial requests for the institutional development of the subproject as well as the handling of the financial resources; c) investigate the "market demand" for work in the institutional development area.

BUDGET: 1984-85 (US\$259,509) 1986-87 (\$-----)

Country: Brazil

Project No. BRA-CWS-040

Title: Managerial and Operational Strengthening of the National Housing Bank (BNH)

Objectives and Targets: Conduct a diagnosis of the actual operational situation of the efforts of COSAN identifying those aspects that need to be adjusted or supported.

Project Description: This BNH sponsored project will: a) cooperate in conducting a diagnosis of the existing operational situation of the COSAN projects; b) develop a program of activities that will establish the objectives, strategies and projects to be carried out as a result of the diagnosis; c) cooperate with COSAN in the implementation of the proposed projects.

BUDGET: 1984-85 (US\$1,290,321) 1986-87 (\$592,516)

Country: Chile
Title: Environmental Sanitation
Project No.: CHI-CWS-010

Project Description: The Organization collaborates with the Ministry of Health to achieve the aims and goals of the water and sanitation decade.

There is no specific water/sanitation project as the Organization is giving assistance on the national level. The Organization will provide, mainly, fellowships, courses and consultants as its assistance.

BUDGET: 1984-85 (US\$121,700) 1986-87 (US\$146,100)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	Yes
National Decade Plan	Has set IDWSS goals for 1990		

Country: Colombia

Project No. COL-CWS-010/050/060/070/080

Title: Environmental Sanitation/Treatment and Disposal of Wastewater in Bogota/Courses in Environmental Sanitation for Decade/Development of the Water Sector/Development of Water Sector/Revision and Updating of Sanitary Legislation

Objectives and Targets: To assist the government in meeting water decade objectives.

Project Description: The Organization cooperates with the Ministry of Health and other water agencies in the expansion of water and sanitation services in institutional development in human resources development and appropriate technology.

Several technical programs have been developed including a human resources plan and training programs. Considering that certification is mandatory for water treatment plant operators, a program of training in evaluation, design, operation and maintenance and management of water treatment plants have been developed from modules prepared by CEPIS.

Another program aims at the integration of all the water sewerage agencies involved in planification and programming execution in the four regions. In addition, cooperation is being extended to programming for control of water losses (PRONCOPE) in which water leak will be reduce by 30 percent. The program is supported by a local loan of \$17 million. Programs is being considered for cities of Cali, Magangue. The project is also promoting improvement in water and sanitation in peripheral zones and rural areas. More emphasis is put on low-cost sanitation options including on the eye of oxidation ponds.

In addition, the Organization is assisting the government to define the problems and then identify ways and means of improving drinking water supplies and basic sanitation measures in rural and the peri-urban areas of major cities. This effort will carry on a similar effort at a later date.

This project has also assisted the country to carry on activities in the Decade support areas of: institution development, human resource development exchange of information, development of technology, and mobilization of local financial resources.

Budget: 1984-85 (US\$381,500) 1986-87 (US\$432,400)

	Proposed	Being Organized	Functioning
National Action Committee	No	x	-
National Decade Plan	Has set IDWSS goals for 1990		

Country: Costa Rica

Project No. COR-CWS-010

Title: Environmental Sanitation

Objectives and Targets: Collaborate with the national authorities in dynamizing actions in the sector to reach the national objectives of the decade particularly to extend the coverage of the water and sanitation services and improve environmental sanitation in rural and peripheric areas.

Cooperate in the system of developing information and in human resources development at all levels.

Promote and organized community participation in all the stage of the program.

Project Description: The project is collaborating with AyA, the National Water Agency and the Ministry of Health, which are the agencies responsible for the Decade. Notwithstanding the present economic situation in the country, efforts are dedicated to extend the coverage through the construction of new systems and the improvement of existing one.

AyA has project in various stage of preparation amounting to \$59 millions, \$40 millions of which are practically already financed. The Ministry of Health prepared a program to provide water and sanitation services to 100,000 inhabitants in rual dispersed areas amounting to \$2 millions.

AyA with the financial collaborations of the World Bank is implementing an institutional development program to improve progressively its capability oprational.

The project collaborate actively in the training of personnel through short-term courses, fellowships and the development of cooperating centers in information, documentation in AYA and other agencies.

BUDGET: 1984-85 (US\$229,500) 1986-87 (US\$269,500)

	Proposed	Being Organized	Functioning
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National Action Committee

National Decade Plan Has set IDWSS goals for 1990

Country: Cuba

Project No.: CUB-CWS-010

Title: Environmental Sanitation

Objectives and Targets: To assist the government in meeting water decade objectives.

Project Description: The project provides short-term consultants in the areas of water supply and basic sanitation, assistance to the government in developing projects and participation of Cuba in REPIDISCA.

BUDGET: 1984-85 (US\$,) 1986-87 (US\$42,500)

	Proposed	Being Organized	Functioning
National Action Committee	x	-	-
National Decade Plan	Needs to set IDWSS goals for 1990		

Country: Dominican Republic

Project No. DOR-CWS-010

Title: Environmental Sanitation/Institutional Development of INAPA

Objectives and Targets: Collaborate with the national agencies in the planification, studies, project preparation execution, operation and maintenance of water and sanitation facilities and in the training of personnel. Specific objectives relate to the planning for the decade, extension of services, improvement in information systems of the institution and institutional development.

Project Description: Regarding the planning for the decade a national action committee has been established formed of the institution of the sectors (INAPA) and the technical secretariat of the Presidency and the Insitute of Hydraulic Resources.

A plan for the improvement of excreta disposal in rural and marginal areas in developing with the Ministry of Health. The structures for community participation is being improved.

Consideration is also given to the improvement in quality and extension of services for water services an sewerage. Terms of reference have been prepared for feasibility study for the principal cities supplies by INAPA. The project is also collaborating in the fluoridation of water for Santo Domingo, Bani, Santiago, and San Francisco de Marcoris.

Several courses has been organized in the evaluation of water plants and planification in institutional development the project collaborated in the strengthening of environmental sanitation developing a plan of action resulting in two projects being financed in latrinization and water quality control.

The Organization is assisting INAPA to reinforce its system of operation; and, to implement measures that will financially strengthen the operation of the agency. The goal of this effort is to assist INAPA to be able to cover its operating costs by 1987.

BUDGET: 1984-85 (US\$218,900) 1986-87 (US\$218,900)
Extra-
budgetary: 1984-85 (US\$348,060) 1986-87 (US\$585,790)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	Committee has been organized
National Decade Plan	Has set IDWSS goals for 1990		

Country: Dominican Republic

Project No. DOR-CWS-020

Title: Institutional Development of INAPA

Objectives and Targets: To reinforce or modify as needed, the operation and maintenance in the aqueducts operated by INAPA.

Project Description: This IADB sponsored project will seek to assist INAPA to place in operation those measures that will assist the latter obtain a long-term balance between its financial and operational efforts.

These efforts will seek to help INAPA attain the Decade goals set by this institution.

Country: Ecuador
Project No. ECU-CWS-010
Title: Environmental Sanitation

Objectives and Targets: a) To promote Decade objectives, the development of the water sector, the improvement of the existing human resources and help establish an information system.

Project Description: This project will provide advisory services, technical cooperation advisors, sponsor short courses, and obtain supplies and equipment as needed.

BUDGET: 1984-85 (US\$ 198,718) 1986-87 (US\$ 256,100)

Country: Ecuador

Project No. ECU-CWS-020

Title: Institutional Development of EMAG

Objectives and Targets: a) to assist in the Institutional Development of the Municipal Agency of Water and Sanitation of Guyaquil (EMAG); and b) to strengthen the National Information System for Sanitary Engineering and Environmental Sciences.

Project Description: The project will involve the following functional areas: (a) Institutional Development for the implementation of planning, operations, commercial, financial and accounting systems; (b) Human resources development through training activities and fellowships; (c) Information exchange and technology development. An Information Centre within EMAG as part of the REPIDISCA Network is planned; (d) Project also provided equipment supplies (valued at \$65,000) through the agreement with IDB. Other project activities are in the area of information exchange, development of technology, training of personnel, formation of CENIRISCA Information System within IEOS. A request to IDRC will allow the consolidation of this program and strengthen the national network.

Country: El Salvador

Project No. ELS-CWS-010/020/030

Title: Environmental Sanitation/Rural Water Supply and Sanitation/Administration, Operation and Maintenance of Rural Aqueducts.

Objectives and Targets: This program is executed through several projects with specific objectives and sources of financing. They are as follows:

1. Promotion of the Decade (UNDP).
2. Financial Resources (CONAPIOS) financed by IDB, UNDP, AID, UNICEF.
3. Human Resources (ANDA, PLANABAR Alcaldia de San Salvador).
4. Institutional Development (UNDP).
5. Hydrology and Well Drilling (UNDP).
6. Rural Sanitation - Latrine (UNICEF)
7. Rural Water Supplies financed by IDB, CIDA, UNICEF, UNDP, GOES and community.

Project Description: Decade promotion will focus particularly on: the organization of two workshops; identification of possible sources of financing for the sector water and sanitation; project identification and preparation of project profile; organization of a program of short courses on simplified design of water systems; and, operation and maintenance; diagnostic of the needs for training in the water and sanitation sector in the context of the Central America Training Program (CAPRE).

Institutional Development of agencies in the sector to meet the Decade goals will include information systems; operation and maintenance; and, reformulation of the Decade Plan.

Geological studies and well drilling in rural and urban areas including the training of personnel in the above, reorganization of the Department of Hydrology, 102 hydrological study were executed covering rural communities with 51,000 population.

Construction and distribution of latrines in rural community (13,003 produced). Project preparation involving water supply for the third phase of IDB loan benefitting 250,000 population with water and 1,080,000 with latrines.

BUDGET: 1984-85 (US\$316,700) 1986-87 (US\$299,800)
Extra-
budgetary: 1984-85 (US\$158,965) 1986-87 (US\$,)

	Proposed	Being Organized	Functioning
National Action Committee			Yes (CONIAPOS)
National Decade Plan			Yes

Country: Guatemala

Project No. GUT-CWS-010

Title: Environmental Health

Objectives and Targets: To assist Guatemala attain their IDWSS Decade goals and to provide technical cooperation in environmental health matters.

Project Description:

BUDGET: 1984-85 (US\$ 326,200) 1986-87 (US\$ 394,200)

Country: Guatemala

Project No. GUT-CWS-030

Title: Strengthening of Potable Water Sector/Rural Sanitation Program

Objectives and Targets:

- Promotion to meet Decade objectives
- Institutional Development of the sector agencies
- Human resources development
- Information systems and resources mobilization

Project Description: The project promoted the National Decade Plan in 1983 and is assisting in the implementation of the recommendation, particularly regarding the strengthening of the water sector and institutional development of the various agencies in the sector. Emphasis is also being given to human resources development, including local courses and seminar and oversea fellowships, particular importance was given to the development of information system for the sector and the incorporation of the water sector in the Central America and Panama Plan for health priorities.

The project is executed through the permanent committee for coordination of water and sanitation (COPECAS) and the main agencies in the sector. Other agencies on the sector involved are INFOM-EMPAGUA-UNEPAR.

A new UNDP project has been approved which considers the strengthening of the institution of the water sector for the implementation of the water plan and training of personnel, it involves the development of management information systems, improvement of various systems including commercial, operation and maintenance, human resources, water quality surveillance and control.

BUDGET: 1984-85 (US\$ 185,000) 1986-87 (US\$ 148,800)

Proposed	Being Organized	Functioning
National Action Committee	-	-
		Yes (COPECAS)
National Decade Plan	-	-
		Yes (GTZ)

Country: Guyana

Project No. GUT-CWS-010

Title: Environmental Sanitation

Objectives and Targets: To assist the government in improving water and sanitation services.

Project Description: The project provides technical assistance to the Ministry of Health and the Guyana Water Authority (GUYWA) in project identification and financing, institutional development and training of personnel.

Several proposals for the construction and renovation of water and sanitation system the most significant being those for Georgetown, and rural communities are being considered for financing. These are estimated at 9.4 million and 9.6 million for a water and sewer project for Georgetown. These proposals were presented to the Inter-american Development Bank, which is programming an institutional development project to begin in 1985.

Technical assistance is also given to several agencies including the City Councils.

BUDGET: 1984-85 (US\$135,600) 1986-87 (US\$190,400)

	Proposed	Being Organized	Functioning
National Action Committee			
National Decade Plan			Has set IDWSS goals for 1990

Country: Haiti

Project No. HAI-CWS-010

Title: Environmental Sanitation

Objectives and Targets: To increase coverage of drinking water and excreta disposal to meet decade objective and continue institutional reform of agencies.

Project Description: The project provides technical assistance to the various water and sanitation agencies, SNEP, CAMEP and Department of Hygiene in project identification and financing. It also provides coordination between agencies in the sectors, including UNICEF, GTZ and private voluntary Organization. It has been instrumental in promoting the water decade approach through the establishment of National Action Committee (CONADEPA).

Basically, the project is responsible for developing and implementing through the national agencies, several activities including a project with GTZ for \$2,400,000 covering institutional support to SNEP, construction of 5,000 latrines and study for the establishment of a training center for water technicians. The project is also assisting in the improvement of laboratory service, evaluation of water systems and introduction of appropriate technology.

The project has developed a national plan for the water decade which identified several project including the development of a master plan for Port-au-Prince.

BUDGET: 1984-85 (US\$384,000) 1986-87 (US\$441,400)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	Yes (CONADEPA)
National Decade Plan	-	-	Yes

Country: Honduras

Project No. HON-CWS-010/020

Title: Engineering and Environmental Sciences/International Drinking Water Supply and Sanitation Decade

Objectives and Targets: To increase coverage of water and sanitation services particularly in rural and marginal areas and strengthen operational and managerial areas and strengthen operational and managerial capability of agencies, to develop human resources and to protect the sources of water and improve water quality.

Project Description: Development of the national water supply and sanitation plan for the decade with targets to cover 90 percent water and 79 percent with sanitation, including preparation of studies and project for service extension, wells with hand pumps, project with women participation, reduction of water losses and promotion of appropriate technology.

The project also includes activities aimed at improving community participation in the construction and operation of water and sanitation. In the field of human resources development, several short courses are to be implemented. Support is also given to sanitary engineering activities at the national university of Honduras where specialized courses are implemented. Training is also provided in leak detection to SANAA personnel where a training unit has been established.

The project is also participating in the formulation of the regional program in water and sanitation for Central America.

BUDGET: 1984-85 (US\$322,100) 1986-87 (US\$349,500)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	x (CONAPS)
National Decade Plan	-	-	x

Country: Jamaica

Project No. JAM-CWS-010

Title: Water Supplies and Environmental Sanitation

Objectives and Targets: To assist the country in meeting decade objectives and improve environmental control.

Project Description: This project assists the government in improving its capability for environmental control through the public health department and the sanitary engineering divisions. It contributes to the upgrading of water quality control through the establishment of an island-wide network for sampling. It raises the level of the public health inspectors by training and technical assistance and fellowships. It promotes a coordinated approach and strategies for the implementation of the water decade through the National Action Plan. A National Water Plan is being developed.

The project provide assistance in basic sanitation coordinating activity with primary health care team and assist the National Water Commission in their effort to supply potable water to major communities.

BUDGET: 1984-85 (US\$257,600) 1986-87 (US\$298,200)

	Proposed	Being Organized	Functioning
National Action Committee	-	Yes	-
National Decade Plan	Needs to set IDWSS goals for 1990		

Country: Mexico

Project No MEX-CWS-010

Title: Environmental Sanitation

Objectives and Targets: To assist in improvement of environmental sanitation.

Project Description: The progressive concentration of the population in the cities are creating urban marginal areas and the increase in agricultural and industril activities are causing environmental problems and compromising the quality of life and human health. In order to protect the environment, this project assist in a wide range of activities.

The project cooperates with various government agencies. It promote strategies for the Decade approach, development of information system, development of institutional capabilities of the various state agencies (DGSAPA/SEDUE). It establishes programs for the control of water losses including training in metering and flow measurement, it assist in investigation of technical problems, including corrosion of pipes. It also assist in programs for the improvement of drinking water quality which also involves defluoridation and control of arsenic. It provides short term training courses and fellowship for nationals.

The project is working with the Government to establish a single national system of information in the water/sanitation sector that will allow Mexico to monitor the advances of the Decade.

BUDGET: 1984-85 (US\$270,700) 1986-87 (US\$344,400)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	Yes
National Decade Plan	Has set IDWSS goals for 1990-		

Country: Nicaragua

Project No. NIC-CWS-010/020/030

Title: Environmental Health, Water Supplies and Sanitation/Institutional Development in INAA/Institutional Development (DAR/INAA)

Objectives and Targets: To develop the technical and operational capacity of INAA through a series of consultants and courses in the areas of maintenance, design, evaluation, operation of treatment plants, ground water, optimal design techniques and pumps.

To develop a national study of water rates for water and sewerage services so that INAA can adjust its tariffs.

To strengthen the Division of Rural aqueducts in INAA through technical cooperation measures.

Strengthen the technical design, operational and administrative aspects of the rural aqueducts being completed by INAA.

To cooperate with the Government to achieve the Decade goals.

Project Description: The project cooperates with INAA and the Ministry of Health to achieve the above mentioned objectives. To do this the Organization provides the services of an Engineer, fellowships, courses, and supplies.

BUDGET: 1984-85 (US\$162,300) 1986-87 (US\$129,400)
Extra-
budgetary 1984-85 (US\$42,873) 1986-87 (US\$,)

	Proposed	Being Organized	Functioning
National Action Committee	-	x	-
National Decade Plan	Has set IDWSS goals for 1990		

Country: Panama

Project No.: PAN-CWS-010

Title: Environmental Sanitation

Objectives and Targets: To develop technical and operational capability of the water/sanitation sector so that it can achieve Decade goals.

Project Description: The project cooperates with the various governmental agencies to promote and carry out Decade activities. The Organization provides consultants, fellowships and seminars to assist the countries achieve their goal.

BUDGET: 1984-85 (US\$68,300)
1986-1987 (US\$63,800)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	-
National Decade Plan	Has set IDWSS goals for 1990		

Country: Paraguay

Project No.: PAR-CWS-010/021

Title: Environmental Sanitation/Rural Water Supply and Sanitation
(Phase II)

Objectives and Targets: To give technical cooperation to SENASA for the developing and strengthening of its technical, operational and managerial capabilities.

To cooperate with SENASA in the execution of IBRD funded rural water and sanitation project that is building 49 projects that will serve 90,000 people.

To cooperate with government to achieve the Decade goals.

To develop document covering the dispersed area that will be presented to GTZ, UNICEF and World Bank for investigation and financing of plastic handpumps.

Project Description: This World Bank sponsored project cooperates with SENASA in the areas of planning engineering design, programming, construction and evaluation of local investment programs. It also assists the rural WSS program in the areas of formulation, execution and evaluation of its institutional development plan. The Project also assists SENASA to provide support to the Juntas de Saneamiento in the various management and technical areas. The project supports SENASA to develop effective financing policies and measures.

BUDGET: 1984-85 (US\$193,300) 1986-87 (US\$212,400)
Extra-
budgetary: 1984-85 (\$407,028) 1986-87 (US\$,)

	Proposed	Being Organized	Functioning
National Action Committee	-	-	Yes
National Decade Plan	Has set IDWSS goals for 1990		

Country: Peru

Project No.: PER-CWS-010/020

Title: Environmental Sanitation/Water Supplies

Objectives and Targets: To give technical cooperation to the Government of Peru so that they can achieve the goals of the Decade.

To assist the Government to improve the operational, managerial and technical capacities of the various institutions and authorities in the water and sanitation sector.

To prepare Decade Plan using GTZ/WHO technical cooperation.

Project Description: PAHO technical cooperation is aimed at improving the human, financial, technical and managerial resources of the sector. The Organization will provide a sanitary engineer who will manage the consultants, fellowships and course that will be used to strengthen the agencies of this sector.

BUDGET: 1984-85 (US\$334,500) 1986-87 (US\$359,300)
Extra-
budgetary 1984-85 (US\$71,900) 1986-87 (US\$,)

In developing the Decade Plan the country will conduct a physical inventory of existing water supply and sanitation system. A series of workshops have been held and a preliminary plan of action has been approved by the newly established National Action Committee.

	Proposed	Being Organized	Functioning
National Action Committee	-	-	Yes
National Decade Plan	Have set IDWSS goals for 1990		

Country: Suriname

Project No. SUR-CWS-010

Title: Community Water Supply, Sanitation and Housing Services

Objectives and Targets: To develop technical and operational capability of the water/sanitation sector so that it can achieve Decade goals and receive technical cooperation in environmental health.

Project Description: The project cooperates with the various governmental agencies to promote and carry out Decade activities. The Organization provides consultants, fellowships and seminars to achieve their goals.

BUDGET: 1984-85 (US\$122,100) 1986-87 (US\$234,400)

	Proposed	Being Organized	Functioning
National Action Committee	x	-	-
National Decade Plan	Has set IDWSS goals for 1990		

Country: Trinidad and Tobago

Project No.: TRT-CWS-010/020/040

Title: Environmental Sanitation/Strengthening of Training Unit of WASA/Assistance to the Water and Sewerage Authority (WASA)

Objectives and Targets: To assist the country to improve their environmental health conditions and to implement activities that will allow them to achieve the Decade goals they have set for themselves.

Project Description: The project seeks to strengthen the national water and sanitation agency (WASA) as well as the other agencies in the water/sanitation sector. In support of this effort, the Organization provides consultants, fellowships and supports short courses.

BUDGET: 1984-85 (US\$199,700) 1986-87 (US\$243,900)
Extra-
budgetary 1984-85 (US\$365,443) 1986-87 (US\$,)

	Proposed	Being Organized	Functioning
National Action Committee	x	-	-
National Decade Plan	Has set IDWSS goals for 1990		

Country: Uruguay

Project No. URU-CWS-010/030

Title: Environmental Sanitation/Development of Administration of National Sanitary Public Works

Objectives and Targets: To assist the government in identifying and implementing activities that will assist the country to attain the goals of the Decade.

Project Description: PAHO's technical cooperation will provide short-term consultants, supplies, equipment and short courses in support of the government efforts in the field of Environmental Sanitation.

BUDGET: 1984-85 (US\$50,700) 1986-87 (US\$104,100)
Extra-
budgetary 1984-85 (US\$2,865) 1986-87 (US\$,)

	Proposed	Being Organized	Functioning
National Action Committee	x	-	-
National Decade Plan	Has set IDWSS goals for 1990		

Country: Venezuela

Project No.: VEN-CWS-010

Title: Environmental Sanitation

Objectives and Targets: Assist the government in meeting water decade objectives.

Assist the government in improving the operational and administrative capacity of the water and basic sanitation sector, especially in the urban fringe and rural areas.

Collaborate with the national authorities in the identification, design and development of studies and project preparation efforts for the sector. Additional efforts will be carried out to improve the availability of information within the sector.

Project Description: PAHO's technical cooperation is aimed at improvement in the human, technical, financial and managerial resources of the sector. The Organization cooperates with the Ministry of Health and other agencies to improve coverage, upgrade service and strengthen the national institutions.

BUDGET: 1984-85 (US\$45,400) 1986-87 (US\$60,300)

	Proposed	Being Organized	Functioning
National Action Committee	x	-	-
National Decade Plan	Has set IDWSS goals for 1990		

Annex Two
Description of Intercountry Projects

Country: Inter-regional

Project No.: ICF-CWS-030

Title: Project Preparation for the Health Water and Sanitation Sectors

Objectives and Targets: To develop a regional program of technical cooperation using short term consultants to prepare investment projects in the health and water/sanitation sectors.

Project Description: This IADB sponsored project will: a) carry out special studies for the diagnosis and identification of investment projects, and b) provide technical cooperation to national authorities in the preparation of requests to the lending agencies.

Country: Subregional

Project No.: ICP-CWS-070

Title: Central America Training Program In Operation and Maintenance of Potable Water and Sewerage Systems

Objectives and Targets: To develop technical, nonprofessional personnel in the tasks of operation and maintenance of water and sewerage systems.

Project Description: PAHO's technical assistance provides a project manager who coordinates this GTZ, country funded project. The project will prepare a diagnosis of present situation of O&M training. It will then develop and/or adapt basic training manuals for the Central America situation. Through a series of workshops and seminars, national training coordinators will be trained and local O&M working group organized. Trainings needs will be identified by the national agencies and the project will assist them to develop training mechanisms and materials that reflect national resources and capabilities.

BUDGET: 1984-85 (US\$401,722) 1986-87 (US\$ 51,078)
Extra-
budgetary 1984-85 (US\$401,722) 1986-87 (US\$51,078)

Annex Three
Description of Regional Projects

PROJECT SUMMARY SHEETS
(Regional)

1. Identification

Title: Water Supply - Wastewater and Excreta Disposal
Number - ICP-CWS-010 Environmental Sanitation
ICP-CWS-030 Water Supply and Sanitation
ICP-CWS-050 Institutional Development
CEP-CWS-010 Pan American Center for Sanitary Engineering
and Environmental Sciences

2. Objectives For All Projects

To cooperate with the Member Countries in the strengthening and extension of drinking water supply and wastewater and excreta disposal services to attain and maintain levels of coverage and quality of the services in accord with the proposals of the IDWSSD and HFA/2000.

2.1 Specific Objectives In Functional Areas Of Cooperation For All Projects

2.1.1 Promotion of the Decade

- To continue promoting the IDWSSD in all countries of the Region.
- To cooperate with countries in the formulation, implementation, monitoring, and evaluation of national plans for drinking water supply and wastewater and excreta disposal.
- To collaborate with the countries in their program for increasing coverage in water supplies, sewerage and safe excreta disposal in marginal urban areas, rural concentrated and scattered population.
- To promote and collaborate in the increase in coverage of excreta disposal and sewerage services to reach comparable levels with water supplies through the development of design criteria, technologies and methodologies.

2.1.2 Institutional Development

- To cooperate with the Member Countries in strengthening of the managerial and operational capacity of the water supply and wastewater and excreta disposal institutions, in the optimization of the installed capacity of the services, in the promotion and strengthening of the management capacity for operation and maintenance of the water supply and sanitation systems, including meeting the standards for service in regard to quality, quantity, costs, etc., and giving attention to the reduction of water losses and leaks and to the improvement of water treatment plants; and in the mobilization of national and international resources.

2.1.3 Human Resources Development

To cooperate in the formulation and execution of training activities, including the preparation of educational materials on information systems, planning, operation, financing, administration, human resources development, project planning, and others, to be applied by the institutions.

2.1.4. Information, Technology

- To promote and collaborate with the Member Countries in the identification, development, evaluation and utilization of appropriate technology for water supply, and wastewater, and excreta disposal.

- To reinforce information systems at Country and Regional level through REPIDISCA.

3. Financial Resources

See Tables I, II, III and IV for financial information covering each of the five Regional projects.

TABLE I
BUDGET FOR ENVIRONMENTAL SANITATION (ICP-CWS-010)

		Fund	1984-85	1986-87			Fund	1984-85	1986-87
Total			168m/m	168m/m	Total		US\$781,000	US\$884,800	
P-5	Program Coordinator .5611	PR	24	24	Subtotal	PR	412,900	460,200	
P-5	Sanitary Engineer .3035	PR							
P-4	Sanitary Engineer 4.5391	WR	24	24	Personnel - Posts		398,500	445,200	
					Staff Duty Travel		14,400	15,000	
G-6	Secretary 4.0054 4.4396	WR	48	48	Subtotal	PH	-	-	
G-5	Secretary 4.2059	WR	24	24	Special Publications		-	-	
					Subtotal	WR	368,100	424,600	
Total			160	160					
	Consultant Days	WR	160	160	Personnel - Posts		286,700	321,000	
					Personnel - Consultants		37,900	49,600	
					Staff Duty Travel		33,500	40,000	
					Contractual Services		5,000	5,000	
					Supplies and Material		5,000	9,000	

TABLE II

BUDGET FOR ENVIRONMENTAL SANITATION (ICP-CWS-030)

		Fund	1984-85	1986-87			
					Fund	1984-85	1986-87
P-5	Sanitary Engineer .0048 .3120 .3343 .4382	PR	96m/m	96m/m	Subtotal	PR US\$1,117,200	US\$1,253,800
P-4	Sanitary Engineer .3509	PR	24	24			
G-5	Secretary .0051 .0053 .0876	PR	72	72	Personnel - Posts	978,700	1,091,400
					Personnel - Consultants	65,200	74,400
					Staff Duty Travel	66,800	75,000
G-5	Secretary 4.0051	WR	-	-	Contractual Services	2,000	2,000
					Supplies and Material	4,500	6,000
G-4	Secretary .1099 .3780	PR	48	48	Subtotal	PG	-
					Courses and Seminars		-
Total			275	240			
	Consultant Days	PR	275	240	Subtotal	PH	-
					Special Publications		-
					Grants		-
					Subtotal	WR	-
					Personnel - Posts		-

TABLE III

BUDGET FOR ENVIRONMENTAL SANITATION (ICP-CWS-050)

		Fund	1984-85	1986-87	Total	Fund	1984-85	1986-87
Total			120m/m	120m/m	Total		US\$478,100	US\$542,400
P-5	Project Manager .5527	PG	-	-	Subtotal	PR	-	-
G-7	Accounts Technician .4538	PY	-	-				
G-6	Office Assistant .0930	PR	-	-	Subtotal	PG	-	-
G-6	Office Assistant .3889	PY	24	24	Personnel - Posts		-	-
					Personnel - Consultants		-	-
					Staff Duty Travel		-	-
G-6	Office Assistant 4.0930	WR	24	24	Contractual Services		-	-
					Program Support Costs		-	-
G-5	Personnel Assistant .4917	PY	-	-	Subtotal	PY	225,000	240,000
G-3	Office Clerk .5298	PY	24	24	Personnel - Posts		225,000	240,000
					Personnel - Consultants		-	-
					Staff Duty Travel		-	-
Total			110	155	Contractual Services		-	-
	Consultant Days	PR	-	-	Supplies and Material		-	-
	Consultant Days	PG	-	-	Furniture and Equipment		-	-
	Consultant Days	PY	-	-	Courses and Seminars		-	-
	Consultant Days	WR	110	155	Subtotal	WR	253,100	302,400
					Personnel - Posts		211,200	235,500
					Personnel - Consultants		26,100	48,100
					Staff Duty Travel		10,800	15,000
					Supplies and Material		5,000	3,800

TABLE IV

PROMOTION OF ENVIRONMENTAL HEALTH
 PAN AMERICAN CENTER FOR SANITARY ENGINEERING AND ENVIRONMENTAL SCIENCES (CEP-CWS-010)

		Fund	1984-85	1986-87			Fund	1984-85	1986-87
Total			1050m/m	912m/m	Total		US\$2,522,860	US\$2,557,750	
P-5	Director of Center	PR	24	24					
	.3372				Subtotal	PR	1,215,200	1,120,100	
P-5	Sanitary Engineer	PR	24	24					
	.3169				Personnel - Posts		1,214,200	1,119,100	
P-5	Sanitary Engineer	WR	24	24	Hospitality		1,000	1,000	
	4.3434								
P-5	Systems Analyst	PR	24	24	Subtotal	PG	1,260,440	348,150	
	.3432								
P-5	Water Supply Specialist	PR	24	-	Personnel - Post		323,252	258,150	
	.3397				Temporary Assistance		36,355	-	
P-4	Information Science Off.	PR	24	7	Personnel - Consultants		6,724	-	
	.3337				Staff Duty Travel		13,988	-	
P-4	Management Advisor	PG	13	-	Contractual Services		181,352	30,000	
	.4136				General Operating Expenses		246,623	-	
P-4	Sanitary Engineer	PR	-	24	Supplies and Equipment		281,928	60,000	
	.0850				Program Support Costs		61,899	-	
P-4	Sanitary Engineer	WR	48	48	Subtotal	PX	55,620		
	4.3433, 4.4705								
P-2	Administrative Officer	WR	24	24	Supplies and Equipment		55,620		
	4.3435								
P-1	Technical Officer	PR	-	24	Subtotal	WR	991,600	1,089,500	
	4.5729								
G-8	Programming Technician	PG	24	-	Personnel - Posts		860,000	885,400	
	.5404				Staff Duty Travel		35,000	40,000	
G-8	Technical Assistant	PG	5	-	Contractual Services		-	60,000	
	.3949				General Operating Expenses		61,200	68,200	
G-7	Accounts Technician	WR	24	24	Supplies and Equipment		19,000	14,100	
	.3775				Courses and Seminars		16,400	21,800	
G-6	Printing Assistant	PG	15	24					
	.3436								
G-6	Printing Assistant	WR	24	-					
	4.3436								
G-6	Secretary	WR	48	48					
	4.0933, 4.3437								
G-6	Technical Assistant	PR	24	24					
	.5170								
G-6	Technical Assistant	PG	24	-					

Table IV (cont'd.)

PROMOTION OF ENVIRONMENTAL HEALTH
PAN AMERICAN CENTER FOR SANITARY ENGINEERING AND ENVIRONMENTAL SCIENCES (CEP-CWS-010)

		Fund	1984-85	1986-87	Fund	1984-85	1986-87
G-5	General Services Asst. .3950	PG	24	24			
G-5	Secretary .0622, .4975	PR	48	48			
G-5	Secretary 4.4372	WR	24	24			
G-5	Technical Assistant .4973	PR	24	24			
G-4	Library Clerk 4.4974	WR	24	24			
G-4	Secretary .0875, .3776	WR	48	48			
G-4	Secretary .3777	PG	24	24			
G-4	Secretary 4.4371	WR	24	24			
G-3	Clerk .5666	PG	24	-			
G-3	Driver .4377	PR	-	24			
G-3	Driver .4377	PG	10	-			
G-3	Library Clerk .3952	PR	24	24			
G-3	Printing Clerk .3778, .4373	PG	48	48			
G-3	Receptionist .3953	PG	24	24			
G-2	Driver .3353	PG	24	24			
G-2	Driver/Messenger .3955	PR	24	-			
G-2	Driver/Messenger .3955	PG	14	24			
G-1	Gardener .5347	PG	24	24			
G-1	Janitor .3352, .3956, .4374	PR	72	-			
G-1	Janitor .3352, .3956, .4374, .4829	PG	81	96			
Total			30	-			
Consultant Days			30	-			

4. Project Description For PAHO Headquarters Projects (ICP-CWS-010/030/040/050)

4.1 Program of Activities Proposed for the Biennium 1986-1987

4.1.1 Extension of coverage

Cooperation is being extended to Member Countries in promotional activities for political support in the preparation and dissemination of informative material and guides for action; the establishment of National Action Committees; and the participation of women is being promoted; and cooperation and direct support to countries for the planning, implementation, monitoring, and evaluation of the national plans for the Decade, including the identification of resources by means of consultative meetings with the national plans for the Decade, including the identification of resources by means of consultative meetings with the national and international financing institutions; continuous monitoring and regional evaluation of the IDWSSD is also considered.

In order to facilitate the extension of the coverage to the marginal urban and rural areas, cooperation will be provided to 25 countries in the development of methodologies and guides for the preparation of programs for drinking water and sanitation, in accordance with the strategy of primary health care; the strengthening of the structures of the sector and of the health services, including promotion of community participation, health education, and personnel training; seminars are to be held on these topics; in addition collaboration with countries in the mobilization of national and international resources for carrying out sectoral studies and the identification, preparation, and financing of projects.

In regard to the extension of the services of wastewater disposal, based on the analysis of the technology in use in the countries, criteria for design will be formulated and disseminated; guides for the installations and development of programs will continue to be prepared; workshops will be organized to identify the main restrictions and to suggest solutions; pilot studies will be conducted on the application of selected technology, and institutions will be identified and supported so that training may be carried out in this field. In addition updated information will be gathered and disseminated on practical experiences, through REPIDISCA.

A series of workshops on wastewater reuse is being implemented; technical guides and practical research projects will be developed with appropriate training of personnel. Technical cooperation will be provided to countries to carry out epidemiological, social and economic studies on the reuse of wastewater.

In order to maximize resources, the formation of networks of collaborating national institutions for water supply and wastewater and

excreta disposal is being considered, as well as to strengthen the network of institutions for water losses already established; the preparation of an inventory of research in progress in the countries will be developed, and projects will be supported for the identification, valuation, and investigation of appropriate technology; direct support will be given for the conduct of two workshops on appropriate technology. Countries will receive support for the evaluation and protection of surface and groundwater resources. Activities will be carried out to reinforce information systems in the countries (REPIDISCA) and stimulate TCDC.

4.1.2 Development of infrastructure for institutions and for operations and maintenance

Eight countries will receive support in order to strengthen the managerial and operational capacity of the water supply and sanitary disposal of wastewater and excreta institutions, including the identification, preparation, execution, and evaluation of national programs and projects of technical cooperation for institutional and human resources development; cooperation will be provided for the investigation of factors that limit institutional development, guides, methodologies, models, and instructional and training materials for human resources development will be prepared. Cooperation will also be provided for the formulation and execution of training activities, including the preparation of educational materials on information systems, planning, operation, financing, administration, human resources development, project planning, and others, to be applied by the institutions. In order to accelerate the mobilization of national and international resources and increase the absorption capacity of the institutions, technology, methodology, and models will be transferred by means of training activities; managerial processes will be developed; and two seminars will be held on managerial development; seminars will be given on project planning in collaboration with IBRD and PAHO.

With reference to institutional improvement, definitions will be made regarding objectives, lines of action, priorities, management models, programs, and mechanisms of coordination; activities will be carried out for training in operation and maintenance, support will be provided for the preparation of programs, and information will be disseminated through REPIDISCA.

Three courses will be given in the control of leaks in the water transportation and distribution systems; and in 1986 a meeting will be convened to analyze the technical aspects and the economic and social implications of water losses in the systems, as well as the need to control them; cooperation will be given to 10 countries to study the losses in large and medium-sized cities.

Ten countries will receive support for the physical optimization of the installed capacity of their water treatment plants for the preparation of methodologies for evaluation, design, and construction, and for the presentation of four courses on these topics.

Collaboration will be extended to an international workshop on disaster preparedness.

4.1.3 Quality of water for human consumption

Support will be given to countries for the evaluation of water quality and for the application of appropriate technology with emphasis on disinfection; they will receive technical cooperation to implement projects for the improvement of water quality; and will continue the widespread distribution of the WHO Guidelines for Drinking Water Quality (1984) and other manuals and technical documents on water quality, through REPIDISCA; in addition seminars and workshops will be held and oriented to the establishment and revision of national standards and to the development of programs for improving quality; programs for surveillance of the quality of water for human consumption will be developed.

Technical cooperation will be given to six countries in the development of water fluoridation programs in order to improve dental health by conducting two courses, disseminating technical information on fluoridation through REPIDISCA, and by promoting the identification of industrial or natural sources of fluorides in the countries.

5. Project Description For The Pan American Center For Sanitary Engineering And Environmental Sciences

5.1 Specific Objectives in Functional Areas of Cooperation

5.1.1 WATER LOSSES CONTROL IN DISTRIBUTION SYSTEMS

5.1.1.1 Definition:

Water losses control is an integrated set of activities carried out in a water supply enterprise, devoted to reach and maintain a service level at which water losses components (leaks, spills, illegal uses of water, wastes, operational and special consumptions, measurement and estimation error) be the minimum possible in conditions of technical economic-financial and institutional viability.

5.1.1.2 Specific objectives:

- a) To reduce to a minimum admissible value to the relation between produced water/utilized water
- b) To attend repressed demands through the use of recuperated water
- c) To extend the distribution system reach as to serve marginal urban areas

- d) To assure the appropriate functioning of the water supply system during the useful life of the project
- e) To increase the useful life of the project
- f) To promote greater equity in the distribution and billing of the water
- g) To reduce costs of water production and distribution

The long-term objective of a water losses control program is to promote and make feasible the overall institutional development of water supply enterprises.

5.1.1.3 Present activities:

Presently several actions are being developed in order to implement national water losses control programs in Peru, Mexico, Colombia, Guatemala, Venezuela and Cuba. During the next future similar actions are contemplated for Argentina, Bolivia and Honduras.

5.1.2 WATER QUALITY SURVEILLANCE PROJECT

5.1.2.1 Specific objectives:

Water quality surveillance is one of the fundamental activities in order to achieve the goals of the U.N. Water and Sanitation Decade in order to assure provision of safe water to vast majorities by 1990. It has been neglected in the majority of developing countries up to now for the following reasons:

- i) there has been no infrastructure to organize routine surveillance programs;
- ii) there were few qualified technicians competent to perform the testing;
- iii) water quality is generally poor and obviously contaminated;
- iv) the methodology of monitoring was too sophisticated and expensive.

5.1.2.2 Present activities

Today, national governments around the world are developing infrastructure, training programs and water supply and treatment schemes. It is therefore, time to exploit existing technology and provide appropriate, low cost systems to monitor the improvements which are being made and must be maintained.

Water supply scientists and public health workers from Del Agua and the University of Surrey, together with the Peruvian Ministry of Health, have developed a Regional Water Quality Surveillance Project which will be linked to a program of improvement of water supply systems. The project is part of the Technical Cooperation Program funded by the British Government Overseas Development Administration (ODA), and is going to be carried out in direct collaboration with CEPIS.

The main objectives of the project are:

to equip regional health area laboratories with essential water testing equipment and supplies;
to train sanitary and laboratory technicians in appropriate methods of water analysis and sanitary inspection;
to initiate routine water quality surveillance and inspection to cover the majority of water supplies;
to establish a protocol for the use of sanitary and surveillance data in order to promote corrective maintenance and rehabilitation of water treatment and supply systems.

The project will expand to three Health Regions in Peru and the proposed period of execution is for three years.

Preliminary data for the program has been gathered since July 1984 but the project itself will begin in October 1985 in the Health Region XIII, Junin/Huancavelica (Peru).

UNEP/WHO will participate and co-fund the scheme in this Region as part of its project to test Volume III of the WHO Drinking Water Quality Guidelines.

5.1.3 WASTEWATER TREATMENT AND REUSE

5.1.3.1 Specific objectives

Throughout Latin America sewage reuse, both control and uncontrolled, is on the increase due to growing social and economic pressures. Research is needed to improve our knowledge of the public health factors associated with reuse and for the evaluation of control measures, including treatment, for the prevention or mitigation of potential risks.

5.1.3.2 Present activities

During the past seven years, CEPIS has carried out an intensive program of research on sewage treatment in waste stabilization ponds and effluent reuse at the San Juan de Miraflores pond site. The efficiency of ponds for removing BOD and pathogens have been evaluated, and studies made of health risks of reuse for irrigation and aquaculture. New studies are aimed at evaluating the potential for groundwater contamination due to infiltration at the reuse site, and the virological and toxicological examination of effluent and food products quality. Socioeconomic, health and nutritional factors are also to be evaluated.

Based on the experiences at San Juan de Miraflores, CEPIS is currently participating global efforts to develop realistic public health criteria for reuse. Also, the Center is active in

promoting the creation of a regional research network on waste stabilization ponds and reuse. A regional research seminar on this topic is scheduled for 1986.

Applications of research findings to date are being developed with CEPIS cooperation in new wastewater disposal schemes in cities such as Trujillo, Ica, Villa El Salvador, Cochabamba, Mexicali, and others.

5.1.4 LOW-COST SANITATION OPTIONS FOR PERIPHERAL URBAN AREAS

5.1.4.1 Specific objectives

The PAHO/IAWPRC Regional Symposium on Water Supply and Excreta Disposal in Marginal Urban Areas, held in Santiago in November 1984, resulted in a recommendation for a new socio-technical strategy for resolving this severe problem. The approach focuses on, among other factors, the development of low-cost technological alternatives, and PAHO was requested to assume a leadership role in the development and dissemination of such appropriate technology.

5.1.4.2 Present activities

In response, a regional research seminar was organized in CEPIS during July 1985, aimed at presenting Latin American experiences in research, development and demonstration of low-cost methodologies for urban sanitation, evaluating these experiences and deciding upon a regional cooperative strategy for technology transfer.

The major thrust of future activities will be to promote and help develop and evaluate large-scale pilot and demonstration projects in major urban areas throughout the Region. Particular attention will be placed on the problems of scaling-up low-cost technology for its application on an urban-wide basis. Horizontal cooperation between countries is a key element in this strategy.

Currently, CEPIS is directly cooperating with the municipal authorities of Lima in seeking low-cost technology solutions with community participation in the "pueblo joven" of Huaycan. This project includes finding affordable solutions for water supply, excreta disposal and refuse collection, recycling and disposal for a new squatter community of 6000 families which is expected to double in size during the next year. Other project in "pueblos juvenes" in Lima, Trujillo, Ica and Pisco are also being assisted.

5.1.5 PREVENTION AND CONTROL OF ENVIRONMENTAL POLLUTION

5.1.5.1 Objectives

To cooperate with the Member Countries in the formulation and execution of programs for the prevention and control of environmental pollution through the development and dissemination of appropriate technology adaptable to the socioeconomic regional context.

5.1.5.2 Specific areas of cooperation

5.1.5.2.1 Submarine outfalls

Raw sewage discharge in the Region often occurs on or near bathing beaches. The problem is aesthetic, potentially a health and ecological hazard, and often economic by curtailing tourism. Submarine outfalls with pretreatment have been demonstrated to be a secure and relatively economic means to obviate the problems already mentioned.

A manual is presently being developed for the conceptual design of submarine outfalls directed toward addressing the interests of the national water and sewage institutions within the Region. This manual's primary objectives are to provide a basic knowledge of submarine outfall design requirements and to develop national water and sewage institution capabilities to establish good terms of reference for contracting such projects and for adequately reviewing the quality of work during the proposal and execution stages.

5.1.5.2.2 Eutrophication of warm-water tropical lakes

Reservoirs and lakes in the Region are demonstrating clear signs of eutrophication along with its associated problems which include aesthetic problems for their recreational use, potential health risks in water supply as a result of chlorinating water with high organic content as well as filter clogging, taste and odor problems, pH variations and toxic substances produced by certain algae and potential corrosive problems by hydroelectric equipment and water distribution systems due to low hypolimnion dissolved oxygen conditions.

These programs' purposes are to provide a methodology not yet available for warm-water tropical lakes for the planification of future reservoirs as well as the estimation of the extent of corrective measures required to alleviate present problems through the control of macro-nutrient discharges. The project counts with a network of nine participating countries providing data for 26 lakes/reservoirs.

5.1.5.2.3 Toxic substances in superficial waters

The uncontrolled discharge of toxic substances resulting from the increased industrial activity and the increased use of pesticides in the Region is caused for every increasing concern over their fate in the receiving waters and entry into potable water.

The Regional Program for the Evaluation and Control of the Discharges of Toxic Substances to Superficial Waters has organized an Ad-Hoc Committee composed of members from the more developed countries in the Region which, with the guidance and orientation of international experts, propose to identify the more severe regional problems, define the infrastructure necessary to cope with these problems and develop a technical manual which will encompass the application of the developed methodologies through representative case studies in the Region.

5.1.5.2.4 Groundwater contamination

Although the groundwater resources of the Region have been extensively exploited, minimal effort has been devoted to the protection of this invaluable source of water.

5.1.5.2.5 GEMS/WATER and PRELAB Programs

A performance evaluation conducted in 1983 in which participated 44 national laboratories of the GEMS/WATER and PRELAB programs, demonstrated that severe problems exist in measurement as evidenced by the fact that of the 363 usable measurements made of trace metals, 222 or 61% were outside the acceptable limits of confiability. A program is being proposed to remedy this situation of the confiability of data which is fundamental to any environmental pollution control program.

Annex Four

List of Consultants Used in 1984-85 and the Area of their Mission

SEQNO NAME AREA EXP/ FOLLOW UP STARTING DATE OBSERVATIONS	NAT ALLOTMEN PROPOSED/CAND/ ACCEPTANCE EXTENDED DATE	PROJECT CR/CONCUR. APL/CONF. EXP. DATE	COUNTRY DURATION SALARY TRAVEL AUTHOR. REPORT	REF/P562 AVAILABILITY LETTER OF OFFER HPE COMMENTS
00003 ATHIE, Mauricio E-01-107 ESTUDIOS IMPACTO AMBI 25/01/84 03/03/84	MEX COL-CWS-010/W5 05/09/83 27/01/84	COL-CWS-010 05/09/83 07/02/84	COL 14/02/84-03/03/84 US\$2,000.00 14/02/84	HPE/EPM-61/1/1529 03/02/84 29/02/84
00004 ALFARO, Jorge E-714 ASPECTOS ADM, COM y FINA 18/01/84 15/04/84	COR NIC-CWS-030/PG 27/11/83	NIC-CWS-030 27/11/83	COR 15/02/84-15/04/84 US\$1,800.00 18/01/84	HPE/EPM-61/1/018 15/02/84
00005 ALVAREZ, Olay E-719 y 724 Area Operacion y M 16/02/84 dispon.a partir 18/5/84 esp.conf.NIC	COL NIC-CWS-030/PG 27/11/83 02/05/84	No disponibl APL c/cable NIC-CWS-030 27/11/83	NIC 18/06/84 US\$1,800.00 18/06/84	HPE/EPM-61/1/017 18/01/84
00006 AMARAL, Renato E-612 y 625 Quimica sanitaria 12/01/84 11/03/84	BRA COL-CEH-020/PG 08/06/83 16/02/84	COL-CEH-020 08/06/83 22/02/84	COL 11-24/03/84 US\$2,000.00 22/02/84	HPE/EPM-61/1/1348 16/12/83 16/01/84
00007 BARRERA, Clara E-04-401 Actividades salud ocu 01/02/84 10/03/84	COL ICP-OCH-010/W3 31/01/84 10/02/84 24/03/84	ICP-OCH-010 17/02/84 22/02/84 31/03/84	BRA 10/03/84-01/04/84 \$65,42 y 98 22/02/84 Viaja a BRA, NPR y WDC	HPE/EPM-61/1/111 10/02/84 28/02/84
00008 BECKER, Sarah E-010 Mujeres en desarrollo 31/01/84 31/01/84	USA ICP-CWS-030/P3 23/01/84 02/02/84	ICP-CWS-030 23/01/84 24/02/84	USA 30-31/01/84/065 NPR-\$1,800 02/02/84	HPE/EPM-61/1/065 30/01/84 30/01/84
00009 COELHO, Adalberto Cavalca E-706 Sistema comercial 19/01/84 16/06/84	BRA BOL-CWS-010/P3 09/11/83 13/02/84	BOL-CWS-010 26/01/84 13/02/84	BOL 04/06/84-16/06/84 US\$2,000.00 23/01/84	HPE/EPM-61/1 10/01/84 15/12/83 04/06/84
00010 CABRERA, Jesus E-04 Actividades salud ocupaci 16/03/84 24/02/84	CUB ICP-OCH-010/W3 31/01/84 21/02/84	ICP-OCH-010 21/02/84	BRA 10/03/84-16/03/84 \$65.00 diar 10/03/84	HPE/EPM-61/1/112 31/01/84
00011 COSTA, Jose Luiz Riani E-04 Actividades salud ocupaci 17/02/84 15/03/84	BRA ICP-OCH-010/W3 02/02/84 17/02/84	ICP-OCH-010 17/02/84	BRA 12/03/84-15/03/84 \$21.50 diar 23/02/84	HPE/EPM-61/1/113 24/02/84 12/03/84
00012 GONZAGA, Bento E-06-614 y 617 Operacion y man 19/01/84 30/05/84	BRA ELS-CWS-020/DP 28/08/83 01/02/84	ELS-CWS-020 18/01/84 27/02/84	ELS 01/04/84-30/05/84 US\$2,000.00 17/02/84	HPE/EPM-61/1 24/10/83 01/02/84 01/04/84
00013 BRENES, Ing. Carlos E-01 Ingenieria Sanitaria 09/03/84 30/03/84	COR AM/PAN-CWS-010 17/01/84 06/03/84	PAN-CWS-010 17/01/84 06/03/84	PAN 25/03/84-30/03/84 \$1,800.00 09/03/84	HPE/EPM-61/1/187 09/03/84 25/03/84
00014 CARBALLO, Jorge E-717 Sistemas de Informacion 19/03/84 28/03/84	COR AM/HON/CWS/010 27/02/84 19/03/84	HON/CWS/010 19/03/84 19/03/84	HON 25/03/84-18/04/84 \$2,000.00 26/03/84	HPE/EPM-61/1/321 01/03/84 25/03/84
			Reeplaza a Jorge Londoño	
00015 DIANDERAS, Augusta E-700-714 Financial Management 12/03/84 05/05/84	PER AM/DOR/CWS/010 07/03/84 23/03/84	DOR/CWS/010 12/03/84 23/03/84	DOR 29/02/84-31/03/84 \$2,000.00 15/03/84	HPE/EPM/61/1/167 08/03/84 08/04/84

SEQNO NAME AREA EXP/ FOLLOW UP STARTING DATE OBSERVATIONS	NAT ALLOTMEN PROPOSED/CAND/ ACCEPTANCE EXTENDED DATE	PROJECT CR/CONCUR. APL/CONF. EXP. DATE	COUNTRY DURATION SALARY TRAVEL AUTHOR. REPORT	REF/PS62 AVAILABILITY LETTER OF OFFER HPE COMMENTS
00016 DIANDERAS, Augusta E-725 Desarrollo Organizacional 04/04/84 21/12/84	PER AM/BRA-CWS-020 25/11/84 23/04/84 31/10/84	BRA-CWS-020 25/11/84 23/04/84	BRA 29/05/84-21/12/84 US\$2,000/m. 19/04/84 Ext.solicitada c/telex	HPE/EPM-61/1/381 29/05/84 01/11/84 APE/2737 25/10/84
00017 ESTRIBI, Ivan Sanitary Engineering - P.3035 16/03/84 02/07/84	PAN AM/ICP-CWS-010 12/01/84 09/04/84	ICP-CWS-010 07/03/84 09/04/84	WDC 20/06/84-02/07/84 \$125, *\$95 16/04/84 *part mission Ginebra 24/06-02/07/84	HPE/EPM-61/1/387/23/03/84 20/06/84
00018 ESCOBAR - M., Jorge E - 714 Financial Management 27/03/84 10/05/84	COL AM/DOR/CWS-010 07/03/84 12/03/84	DOR-CWS-010 09/03/84 27/03/84	DOR 10/04/84-10/05/84 \$2,500.00 16/03/84 Available as of 10/04/84	HPE-EPM/61/1/400/28/03/84 07/03/84 10/04/84
00019 ESTEVES, Jose Alfonso E - 610 Hydrology 10/06/84	ELS AM/ICP-CWS-010 13/03/84	ICP-CWS-010 01/05/84	BOL 11/05/84-10/06/84 \$1,800.00 11/05/84 Replacing Eng. Ricardo Nuñez (BOL)	HPE/61/1/1556/29/12/83
00020 FARRER, Herbert Especialista en Macromedicion 06/04/84 28/04/84	COR AM/ICP-CWS-010 20/03/84 21/04/84	HON-CWS-010 21/03/84 13/04/84	HON 22/04/84-28/04/84 \$2,000.00 04/04/84	HPE/EPM/61/1/383/21/03/84 21/03/84 22/04/84
00021 FERNANDEZ - O., Jorge E - 04 Occupational Health 27/03/84 24/04/84	MEX AM/CUB-HST-010 20/03/84 30/03/84	CUB-HST-010 30/03/84	CUB 08/04/84-25/04/84 \$1,600.00 04/04/84	23/03/84 08/04/84
00022 GLUSKER, Susannah E - 733 - 711 Public Relations 30/03/84 11/04/84	USA AM/ICP-CWS-030 30/03/84	ICP-CWS-030 30/03/84 04/04/84	WDC 02/04/84-11/04/84 \$62.50 p/d 02/04/84	HPE/EPM/61/1/420/30/03/84 30/03/84
00023 HILBURG, Carlos E-06, Abastecimiento Agua Pot. 15/03/85	PER GUT-CWS-010/P3 01/02/85 31/01/85 05/08/84	GUT-CWS-010 01/02/85 02/03/84	GUT 08/04/84-15/08/84 \$2,300.00 08/03/84	HPE/EPM/61/1/ 08/03/84 08/03/84
00024 HAQUE, Rizwanul E - 112 Physical/Chemical Haza 16/03/84 15/04/84	USA AM/COL-CLR-010 28/02/84 26/03/84 20/04/84	COL-CLR-010 26/03/84 10/04/84	COL 15/04/84-20/04/84 \$110 p/d 10/04/84	HPE/EPM/61/1/ 28/02/84 10/04/84
00025 JIMENEZ, Federico E - 030 Chemical Engineering 12/01/84 23/03/84	SPA AM/COL-CEH-020 16/02/84 22/02/84	COL-CEH-020 16/02/84 16/01/84	COL 12/03/84-23/03/84 \$10.00 p/d 12/03/84	HPE/EPM/61/1/
00026 LONDOÑO, Alvaro E- 06 Sistemas Inf. Agua Pot. 02/03/84	COL AM/GUT-HMD-010 09/03/84	GUT-HMD-010 18/03/84	GUT 18/03/84-14/04/84 \$2,000.00 14/04/84	HPE/EPM/61/1/
00027 LEVINE, Robert S. E - 116 Toxicokinetics, Metabo	USA AM/COL-CLE-010 28/03/84	COL-CLE-010 16/04/84	COL 16/04/84-20/04/84 \$2,000.00 16/03/84 20/04/84	HPE/EPM/61/1/
00028 LIVERPOOL, Nicholas E - 100 Health Legislation 03/04/84 17/04/84	DOM AM/BAH-CWS-010 15/03/84 03/04/84	BAH-CWS-010 15/03/84 04/04/84	BAH 09/04/84-17/04/84 \$2,000.00 09/04/84 Phase II	HPE/EPM/61/1/

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00029 MURRAY, Derrick C. 23/04/84	CAN AM/GUY-CWS-010 US\$75.--dia 17/05/84	GUY-CWS-010 03/06/84	GUY 03/06/84-23/06/84 27/06/84	HPE/EPM/61/1/
00030 NINO, Jairo E - 009 Sanitary Engineering 02/04/84 15/08/84	COL AM/ICP-CWS-050 28/03/84	ICP-CWS-050 * 02/04/84 18/04/84	08/07/84-14/08/84 \$2,500.00 08/04/84	HPE/EPM/61/1/02/04/84 28/03/84
00031 WITT, Vicente E - 009 Sanitary Engineering	ECU AM/ICP-CWS-010 23/12/84	ICP-CWS-010 \$2,300.00 03/01/84	WDC 03/01/84-13/01/84 03/01/84 13/01/84	HPE/EPM, 23/12/84
00032 SANDOVAL, Hernan E - 04 Occupational Health 16/03/84	CHI AM/ICP-OCH-010 31/01/84 21/02/84	ICP-OCH-010 14/02/84	BRA 10/03/84-16/03/84 \$65 p/d 28/02/84	HPE/EPM/61/1/ 31/01/84 10/03/84
00033 JAUREGUI, Luis U. E - 06 Water Supply/Sanitation 27/03/84 20/06/84	ARG GL/GLO/CWS/902 12/01/84 07/03/84	GLO/CWS/902 07/03/84 09/03/84	WDC 20/06/84-03/07/84 \$125 - \$95 09/04/84	HPE/EPM/61/1/ 20/06/84
00034 ESCOBAR, Jorge	COL AM/DOR-CWS-010	DOR-CWS-010	DOR He will visit WDC and Geneva.	HPE/EPM/61/1/
00035 VARGAS, Lidia M. C. de E - 06 Plantas Tratamiento Agu 23/02/84 23/03/84	PER AM/PAN-CWS-010 23/02/84 23/02/84	PAN-CWS-010 \$1,800.00 05/03/84	PAN 09/03/84-23/03/84 09/03/84	HPE/EPM/61/1/ 27/02/84
00036 VIEGAS, Alfredo E-06-629 Fluoruracion Agua 09/03/84 08/04/84	BRA AM/BRA-CWS-010 14/03/84 09/03/84	BRA-CWS-010 \$55 p/d 19/03/84	BRA 01/04/84-08/04/84 01/04/84	HPE/EPM/61/1/ 14/03/84
00037 VARGAS, Carlos E-06-009 Sanitary Engineering 30/03/84 05/05/84	CHI AM/ICP-CWS-050 30/03/84	ICP-CWS-050 \$2,000.00 08/04/84	WDC 08/04/84-05/05/84 28/03/84 08/04/84	HPE/EPM/61/1/
00038 CHOUIL, Hernando E - 06 Finance 25/04/84 01/05/84	COL AM/MEX-CWS-010 15/05/84 10/05/84	MEX-CWS-010 US\$2,000/mo 27/04/84	MEX 20/05/84-01/06/84 13/04/84 20/05/84	HPE/EPM/61/1-23/03/84 16/04/84
00039 LAURENT, Eugene E-01-107 Env. Impact Assessmen 13/04/84 27/04/84	TRT AM/ICP-CWS-010 10/04/84 18/04/84	ICP-CWS-010 13/04/84 18/04/84	BAR 25/04/84-27/04/84 \$125 p/d 25/04/84	HPE/EPM/61/1/ 10/04/84 25/04/84
00040 IRONS, Ellie E-01-107 Env. Impact Assessmen 18/04/84 27/04/84	JAM AM/ICP-CWS-010 18/04/84	ICP-CWS-010 \$125 p/d 25/04/84	BAR 25/04/84-27/04/84 25/04/84	HPE/EPM/61/1/
00041 HART, Robert E-100-070 Project Evaluation 04/04/84 05/05/84	PER AM/PAR-CWS-021 13/03/84 13/04/84	PAR-CWS-021 04/04/84 13/04/84	PAR 22/04/84-05/05/84 \$2,000.00 18/04/84	HPE/EPM/61/1/ 27/02/84 22/04/84
00042 BISWAS, Niharendu E - 009 Sanitary Engineering	CAN AM/SUR-CWS-010 27/05/84	SUR-CWS-010 \$2,000.00	GUY 27/05/84-01/06/84 01/06/84	HPE/EPM/61/1/551/18/04/84

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00043 COELHO, Adalberto C. E - 700 Institutional Developm 16/04/84 19/05/84	BRA AM/MEX-CWS-010 20/12/83 17/04/84	MEX-CWS-010 23/03/84 23/04/84	MEX \$2,000.00 25/04/84	06/05/84-19/05/84	HPE/EPM/61/1/ 13/04/84 06/05/84
00044 CANEPA de Vargas, Lidia E - 009 Sanitary Engineering 16/04/84	PER AM/HON-CWS-010 20/04/84	HON-CWS-010 \$2,000.00 20/05/84	HON 02/06/84	20/05/84-02/06/84	HPE/EPM/61/1/488/14/03/84
00045 LA MOTTA, Enrique E - 009 Sanitary Engineering por La Motta 00046 OROZCO, Juan Guillermo E - 009 Sanitary Engineering	ECU AM/HON-CWS-010 15/03/84 17/06/84	HON-CWS-010 \$2,000.00 12/04/84	HON 12/04/84	17/06/84/29/06/84	HPE/EPM/61/1/524/14/03/84 Mision no fue cumplida
		Melio Saenz iba llevar a cabo mision			
	COL AM/NIC-CWS-010 06/04/84 1204/84	NIC-CWS-010 \$1,800.00 20/04/84	NIC 16/04/84 30/04/84	20/04/84-20/08/84	HPE/EPM/61/1/1346,04/9/84 20/08/84
		Visita Panama 13-26 May,AM/NIC/CWS/010/			
00047 OYANGUREN, Hernan E - 04 Occupational Health 11/04/84 20/05/84	CHI AM/ICP-OCH-010 19/04/84	ICP-OCH-010 \$125 p/d 19/04/84	WDC 10/04/84 23/04/84	12/05/84-20/05/84	HPE/EPM/61/1/ /10/04/84 12/05/84
00048 RICHTER, Carlos E - 06 Water Supply/Sewage Dis 17/04/84 26/05/84	BRA AM/MEX-CWS-010 23/03/84 01/5/84	MEX-CWS-010 27/04/84 01/5/84	MEX \$2,000.00 12/05/84	12/05/84-26/05/84	HPE/EPM/61/1/478/10/04/84 10/04/84
		Mision a realizarse en Guadalajara, Jalisco			
		Auto.Min.Salud sol.posterg. asesor p.85			
00049 SIMONS, Joe E-010,E-619 Hidrology 21/03/84 05/05/84	CAN AM/MEX-CWS-010 19/03/84	MEX-CWS-010 26/03/84 17/04/84	MEX 22/04/84	22/04/84-05/05/84	HPE/EPM/61/1/ /10/04/84 13/04/84
00050 VOLLENWEIDER, Richard A. E - 601 Limnology 05/12/84 15/10/84	CAN AM/BRA-CWS-010 29/02/84 17/04/84	BRA-CWS-010 pending US\$95.-dia 01/02/85	BRA US\$95.-dia 14/02/85	01/02/85-14/02/85	HPE/EPM/61/1/ 03/08/84 14/02/85 /85
		R.Vollenweider disponible ira.semana Feb			
00051 GONZALEZ, Carlos	COL AM/ECU-CWS-010 \$65 p/d	ECU-CWS-010	ECU	23/04/84-28/04/84	HPE/EPM/61/1/
00052 HART, Roberto E - 06 Water Supply/Sewage Dis 19/04/84	PER AM/MEX-CWS-010 18/04/84 27/04/84	MEX-CWS-010 \$2,000.00 02/05/84	MEX 13/04/84 06/05/84	08/05/84-19/05/84	HPE/EPM/61/1/
00053 TRIVINO, Jorge E - 06 Environmental Health 20/04/84 06/05/84	COL AM/MEX-CWS-010 23/03/84 24/04/84 19/05/84	MEX-CWS-010 23/03/84 23/04/84 30/04/84	MEX \$2,000.00 25/04/84	06/05/84-19/05/84	HPE/EPM/61/1 13/04/84 13/04/84 25/04/84
00054 ROVIRALTA, Guillermo E - 009 Sanitary Engineering	COR AM/ICP-CWS-030 \$2,300.00	ICP-CWS-030	HPE		HPE/EPM/61/1/ /20/04/84
00055 FARRER, Herbert E - 009 Sanitary Engineering	COR AM/ICP-DPR-180 28/06/84	ICP-DPR-180	BRA	28/06/84/08/07/84	HPE/EPM/61/1/ /16/04/84
				08/07/84	

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00111 BETANCUR, Rodrigo Consultor en diseño sistemas posible Cancelad	COL NIC-CWS-010-W3 22/06/84 11/07/84	NIC-CWS-010 22/06/84	NIC Mision Cancelada \$US 2,200 05/07/84	HPE/EPM-61/1/939,27/06/84 lo antes 09/07/84
00112 BRENES, Carlos E- Mant.abast.agua potab 12/07/84 15/08/84	COR BRA-CWS-010/W5 27/06/84 11/07/84	BRA-CWS-010 27/06/84 17/07/84	BRA 04/08/84-15/08/84 US\$1,800p/m 12/07/84	HPE/EPM-61/1/981 09/07/84 12/07/84 04/08/84
00113 GONZAGA, Bento E-06-722 Macromedicion 18/08/84	BRA COL-CWS-010/W3 17/07/84 24/08/84	COL-CWS-010 17/07/84 24/08/84	COL 05/08/84-18/08/84 US\$2,000p/m 06/08/84	HPE/EPM-61/1/1025 18/7/84 17/07/84 05/08/84
		Staff CETESB	sueldo se acredita proyecto BRA-CEH-020	
00114 HADDAD, Jose Felicio E Limpieza urbana 21/08/84	BRA BRA-CWS-010/W3 29/06/84 05/07/84	BRA-CWS-010 29/06/84 05/07/84	BRA 10/07/84-21/08/84 US\$2,000p/m 09/07/84	10/07/84
00115 HESS, Max Lothar E-625 Tratamiento de aguas 11/07/84 01/09/84	BRA ARG-CWS-010/PC 06/07/84 12/07/84	ARG-CWS-010 06/07/84 30/07/84	ARG 18/08/84-01/09/84 US\$2,000p/m 06/08/84	HPE/EPM-61/1/1064 25/7/84 12/07/84 18/08/84
00116 LLOYD, Barry E-06-620 Control calidad agua 25/07/84 29/07/84	U.K COL-CWS-010/W3 19/07/84 23/07/84	COL-CWS-010 19/07/84 25/07/84	COL 29/07/84-04/08/84 US\$112.=p/d 25/07/84	HPE/EPM-61/1/1049 23/7/84 23/07/84 26/07/84
00117 OROZCO, Guillermo E operacion y mantenim. 18/08/84	COL BRA-CWS-010/W3 15/06/84 10/07/84	BRA-CWS-010 15/06/84	BRA 12/08/84-18/08/84 US\$2,000p/m 13/07/84	HPE/EPM-61/1 02/07/84 31/07/84 12/08/84
00118 COELHO, Calvacan Adalberto Especialista Micromedicion 19/07/84 17/08/84	BRA DOR/CWS/010 02/07/84 06/08/84	DOR/CWS/010 11/07/84 12/07/84	DOR 17/08/84-30/08/84 US\$2,000.-- 23/07/84	HPE/EPM/61/1032,2906/84 06/08/84 31/07/84
00119 ARMIJO, Ronaldo Epidemiologo 31/08/84	CHI ECO/EID/010/P1 02/07/84	ECO/EID/010	MEX 01/08/84-31/08/84 US\$2,000.-- 01/08/84	HPE/EPM/61/1/993,02/07/84 01/08/84
00120 HILBUG, Carlos Jose E-01, Saneamiento Ambiental 05/04/85 16/04/85	PER GUT-CWS-010/P3 02/08/84 05/04/85	GUT/CWS/010 27/07/84 05/04/85	GUT 16/09/84-30/09/85 US\$2,300 mo 10/04/85	EPM/61/1/1807, 19/10/84 12/04/85 16/09/84
00121 MARTINEZ, Dr. Luis E-304 Epidemiologo 06/09/84	CHI ECO/EID/010/P1 11/07/84 25/07/84	AM/ECO/EID 31/07/84	MEX 05 08/84-06/09/84 US\$1,900.-- 06/08/84	HPE/EPM/61/1/1010,11/7/84 05/08/84
00122 OLMEDO, CORONADO Juan E-305 Ing. Sanit. Hidraulico 29/09/84	ELS GUT/RMD/010/P2 20/06/84 03/08/84	RP-Guatema. 03/08/84	GUT 02/09/84-29/09/84 US.2,000.-- 10/08/84	HPE/EPM/61/1/1116-12/7/84 02/09/84 02/09/84
00123 COREY, Orellana, German EPIDEMIOLOGO 30/09/84	CHI ECO/EID/010/P1 02/07/84 19/07/84	ECO/EID/010 19/07/84	CHI 10/09/84-30/09/84 US\$1,900.-- 10/09/84	HPE/EPM/61/1/1009,02/7/84 10/09/84

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00098 CASTRO, Rodolfo E-730 Diseno e implem. sist.	COR AM/ELS-CWS-030 11/06/84	ELS-CWS-030	ELS 5 semanas US\$1,800p/m 01/07/84	HPE/EPM-61/1 02/05/84 /06/84
01/08/84 en su totalidad la mision	Propusole al RP	ELS nueva fecha, decidie		ndo cancelar
00099 DOBBINS, Charles Control of density of flies Unavail.	USA AM/GUT-CWS-010 22/05/84	GUT-CWS-010	GUT 10/06/84-19/06/84 US\$118.=p/d	HPE/EPM-61/1 23/05/84
Replaced by Dr. Maxcy Nolan, who will		travel 10/06 /84, HPV advisor		
00100 GONZALEZ, Carlos Sin especialidad de que va a	ECU AM/ECU-CWS-010 18/04/84	ECU-CWS-010	ECU 23/04/84-28/04/84 US\$75.=p/d. 20/04/84	HPE/EPM-61/1 17/04/84 23/04/84
28/04/84	Asesor de	HSC		
00101 LOPEZ O., Orlando E-731 Ingenieria civil o admin	COL AM/NIC-CWS-030 27/11/83	NIC-CWS-030	NIC 15/02/84-15/04/84 US\$1,800p/m	HPE/EPM-61/1 03/01/84 14/02/84
14/02/84	14/02/84	14/02/84	17/02/84	15/02/84
15/04/84	Consultor propuso	15/06, pero no fue		aceptado el
cambio, por lo que su mision se cancelo				
00102 RICHTER, Carlos Potabilizacion de agua	BRA AM/MEX-CWS-010 06/06/84	MEX-CWS-010	MEX 22/06/84-30/06/84 US\$125.=p/d 21/06/84 22/06/84	HPE/EPM-61/1/891 15/06/84
30/06/84				
00103 SLATER, Herschel H. E-01 101 Modelos contaminan.ai	USA AM/COL-CWS-010 04/05/84	COL-CWS-010	COL MISION CANCELADA US\$2,000p/m 11/07/84 01/08/84	HPE/EPM-61/1/868 11/06/84 01/08/84
05/09/84	Consult.imposibilitado-muy tarde recibio			document.
00104 SZYFRES, Luis E-03-304 Epidemiologo 22/12/83 14/01/84 Extendido	ARG AM/ECO-EID-010 01/12/83 04/01/84 14/07/84 29/03/84	ECO-EID-010	MEX 14/01/84-14/07/84 US\$2,000p/m 06/01/84 06/01/84 14/04/84 06/06/84 (14/01/84-04/06/84)	HPE/EPM-61/1/ 22/12/83 10/01/84
00105 NIÑO, Jairo Consul.Analisis Financiero	COL AM/ICP-CWS/030 15/06/84	ICP-CWS-030 *	03/07/84-17/08/84 US\$2,000.-- 03/07/84 03/07/84 18/08/84	HPE, 27/06/84
HON,NIC,GUT,ELS,COR,PAN,COR,WASH,D.C.*				
00106 SANHUEZA, Hernan Sistemas de Informacion	CHI AM/GUT/CWS/010 12/06/84	GUT-CWS-010	GUT 12/06/84-14/09/84 US\$2,000.-- 12/06/84 12/06/84 14/09/84	GUT-22/05/84
00107 WALTERS, Edna	JAM NCA-DHS-010/P2	DHS(HSC)	CYI	
00108 LA MOTTA, Enrique Trat. Biol. de Aguas Negras	ECU ECU/CWS/010/P3 08/07/84	RP-OPS Ecu	WDC 08/07/84-14/07/84 US\$ 08 p.d. 08/07/84 08/07/84 14/07/84	HPE/EPM-61/1/970,14/06/84 Consultoria cancelada
00109 HADDAD, Jose Felicio Limpieza urbana	BRA BRA/CWS/010/W3 29/06/84	BRA/CWS/010	BRA 10/07/84-21/08/84 \$US2,000.-- 10/07/84 10/07/84 21/08/84	HPE/EPM/61/1/957,03/07/84 Recibido 11 Feb. 85
00110 WATERS, Edna Water and sewerage systems	JAM NCA-DHS-010/P2 29/06/84	DHS-(HSC)	* 03/07/84-06/07/84 \$US 140.da. 03/07/84 27/06/84 03/07/84	HPE/EPM-61/1/956,29/06/84
06/07/84				

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00085 ARELLANO, Jose Est. Fact. Desechos Solidos 19/06/84 29/07/84	CHI AM/NIC-CWS-010 11/05/84 12/06/84	AM/NIC-CWS US\$1,800.--	NIC	01/07/84-29/07/84	HPE/EPM-61/1/844-05/06/84 01/07/84
00086 HESS, Max Lothar Lagunas de Estabilizacion 16/06/84	BRA AM/HON/CWS/010 18/05/84 25/05/84	HON/CWS/010 US\$2,000.--	NIC	03/06/84-16/06/84	03/06/84
00087 COELNO, Adalberto C. Sist.Comer, Agua Pot y Alcanta mision	BRA AM/BOL/CWS/010 21/02/84 23/01/84	BOL/CWS/010 US\$2,000p/m	BOL	04/03/84-17/03/84	HPE/EPM-61/1 10/01/84 16/06/84 Imposibilitado cumplir
00088 LONDOÑO, Alvaro E-06 Sistemas Inf.Agua Potable 03/08/84	COL ELS/CWS/020/DP 22/05/84	ELS/CWS/020 US\$2,000.--	ELS	02/06/84-03/08/84	RP-ELS/HPE/EPM/61/1/541 02/06/84
00089 WALTERS, Edna Water Sewerage System Cai.Isla	JAM NCA-DHS-010/P2 11/06/84	DHS (HSC) US\$140 dail	CIS	10/06/84-14/06/84	HPE/EPM/61/1/861,08/06/84 13/06/84
00090 VARGAS, Lidia M. C. de E-06 Piantas Tratamnto Agua 31/05/84	PER AM/MEX/CWS/010 07/05/84	MEX/CWS/010 US\$2,000.-- 10/05/84	MEX	15/05/84-31/05/84	EPM/61/1/639, 04/05/84 15/05/84 15/05/84
00091 YANEZ, Fabian A. Contaminacion Marina PNUD/Habana, 13-15Feb PNUD	ECU AM/ICP/CWS/050 05/01/84	AMRO-2173 US\$2,500.-- 17/01/84	CUB	17/01/84-27/02/84	HPE, 20/12/83 17/01/84 27/02/84 18-29 Enero P
00092 MESQUITA, Jose Maria Planificador Desechos Solidos 13/12/84 04/04/85	BRA 83/W5/ELS/2004 23/05/84 18/12/84	W5/ELS/2000 US\$2,000p/m 13/12/84	ELS	07/04/85-06/05/85	HPE/EPM-61/1 28/01/85 03/05/85 14/09/84
00093 RUTSTEIN, David D. Temp. Adv. Occupation Health	USA AM/ICP/OCH/010 14/05/84	ICP/OCH/010 US\$125.-dia 16/05/84	WDC	16/05/84-- 11/05/84	HPE-HPW, 11/05/84 16/05/84
00094 NUÑEZ, Ricardo HIDROGEOLOGO	BOL 84/WT/EL/2101 30/11/83	ELS-2101 US\$2,000.-- 15/01/84	ELS	15/01/84-14/09/84	RP-ELS, 26/10/84 15/01/84 14/09/84
00095 DIBERNARDO, Luiz Potabilizacion de agua 30/06/84	BRA AM/MEX-CWS-010 06/06/84 16/06/84	MEX-CWS-010 US\$125.=p/d 16/06/84	MEX	22/06/84-30/06/84	HPE/EPM-61/1/890 15/06/84 21/06/84 22/06/84
00096 ARBOLEDA, Jorge Potabilizacion de agua 30/06/84	COL AM/MEX-CWS-010 06/06/84 20/06/84	MEX-CWS-010 US\$125.=p/d 20/06/84	MEX	23/06/84-30/06/84	HPE/EPM-61/1/889 15/06/84 20/06/84 23/06/84
00097 BETANCUR, Rodrigo E-737 Adiestramiento computado	COL AM/NIC-CWS-010 22/06/84	NIC-CWS-010 US\$2,200p/m	NIC	30 dias en julio	HPE/EPM-61/1/940 27/06/84 27/06/84

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00069 SOLSONA, Felipe 030-Chemistry 07/06/84 17-23Jun,SAL 24-30Jun	ARG AM/ICP-CWS-030 23/05/84 14/06/84	ICP-CWS-030 * US\$2,000/ 09/06/84		09/06/84-30/06/84 09/06/84 30/06/84	HPE/EPM/61/1-21/05/84 *MEX.9-16Jun.,HPE
00070 OLIVEIRA, Walter Engracia E05-009 Solid Wastes 23/10/84 13/09/84	BRA BOL-CWS-010 27/04/84 18/05/84	BOL-CWS-010 12/05/83 23/10/84	BOL US\$2,000.--	18/08/84-13/09/84 18/06/84	HPE/EPM-61/1/608 27/04/84 18/05/84 18/08/84
00071 DEMAYO, Adrian E-730 Diseno de sistemas y eva	CAN AM/ELS-CWS-030 13/09/83	ELS-CWS-030 13/09/83	ELS 5 semanas US\$100.=p/d		HPE/EPM-61/1 02/05/84
Se cancelo m 00072 LERNER, Telvangio 706-Siste.Comer. Abas.Agua/Alc 28/06/84	Reemplazado por R. Castro BRA AM/ECU-CWS-020 14/05/84	ECU-CWS-020 US\$2,000p/m 08/05/84	ECU 24/05/84-01/07/84 24/05/84 01/07/84		HPE/EPM/61/1 - 25/04/84
00073 ROVIRALTA, Guillermo	COR AM/ICP/-CWS-03	ICP-CWS-030			
00074 FARRER, Herbert Saneamiento en caso Inundacion 03/07/84 13/07/84	COR AM-ICP-DPR-280 03/07/84	ICP-DPR-280 US\$2,000.-- 13/06/84	BRA 09/07/84 07/07/84	07/07/84-13/07/84	HPE/EPM-61/1 10/04/84 12/07/84
00075 FARRER, Herbert Ingenieria Sanitaria(Inundaci 13/07/84	COR AM/ICP/DPR/180 02/05/84 23/04/84	ICP/DPR/180 US\$2,000.-- 19/04/84	ECU 26/05/84-02/06/84 26/05/84 09/07/84		
00076 MORA, Jaime	COL				
00077 RODRIGUEZ, Enrique E-01 Ingeniero Sanitario 15/08/84 Mision fue cancelada	MEX HON/CWS/010/P3 10/09/84	HON/CWS/010 US\$1,800.-- 16/09/84	HON 16/09/84-13/10/84 16/09/84 13/10/84		RP-HON-24/04/84 02/07/84
00078 WITT, Vicente E-009 Sanitary Engineering 04/04/84 31/08/84	ECU AM/ICP-CWS-010 21/03/84	ICP-CWS-010 23/03/84 06/04/84	USA 14/04/84-31/08/84 US\$2,300p/m 14/04/84	14/04/84-31/08/84	HPE/EPM-61/1/802-25/05/84 27/05/84 25/06/84
00079 ROVIRALTA, Guillermo E-01, Ingenieria Sanitaria	COR AM/ICP-CWS-030	ICP-CWS-030	USA 20/04/84-22/06/84	14abr.26may; 27may.30jun;ljul.31agos. 20/04/84-22/06/84	HPE/EPM-61/1/801-25/05/84
00080 CASTAGNINO, Walter Saneamiento Ambiental 23/05/84 05/05/84	URU AM/PER/CWS/010 15/05/84 25/05/84	PER/CWS-010 15/05/84 15/05/84	PER 30/04/84-05/05/84 US\$2,300p/m 15/05/84	30/04/84-05/05/84	HPE/EPM/61/1/852 06/06/84 30/04/84 30/04/84
00081 CASTAGNINO, Walter Saneamiento Ambiental	URU AM/PER/CWS/010 09/07/84	PER-CWS-010 US\$ 2,300.- 10/09/84	PER 10/09/84-22/09/84 10/09/84 22/09/84		HPE/EPM/61/1/853 (RP-Peru Recibido 31/10/84
00082 GALVIS, Gerardo Opera.Mantto Pla.Potabilizado. 12/09/84	COL AM/MEX/CWS/010 25/05/84 15/08/84	MEX/CWS/010 08/06/84 18/08/84	MEX 18/08/84-12/09/84 US\$2,000.-- 18/08/84		HPE/EPM/61/1/904 18/08/84
00083 HARRINGTON, William M. STC in Solid Waste Management ar.17-18Jun84	USA AM/DOM/DHS/010 23/05/84	DOM-DHS-010 * US\$2,000.-- 10/06/84	DOM 10/06/84-18/06/84 10/06/84 18/06/84		HPE-EPM/18/05/84 Roseau,Dom/10-16Jun;Bridg.B

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00056 BISWAS, Niharendu E - 009 Sanitary Engineering 17/04/84 23/06/84	CAN AM/SUR-CWS-010 09/04/84 09/04/84	SUR-CWS-010 10/04/84	SUR 09/06/84-21/06/84 \$2,000.00	HPE/EPM/61/1/551/25/04/84 09/06/84
00057 GARCIA - S., Jose J. E-03-316 Pesticides/Epidemiolo	MEX AM/ECO-EID-010 24/05/84	ECO-EID-010 \$110 p/d 27/05/84	MEX 27/05/84-02/06/84 27/05/84 02/06/84	HPE/EPM/61/1/593/25/04/84
00058 REID, George E - 06 Reuse of Waste Water	USA AM/ICP-CWS-030 16/04/84	ICP-CWS-030 \$125 p/d 25/04/84	WDC 25/04/84-28/04/84 28/04/84	HPE/EPM/61/1/ /06/04/84
00059 RODRIGUEZ, Juan Bautista E - 06 Sanitary Engineering 06/04/84 26/07/84	COR AM/BOL-CWS-010 13/08/84 29/03/84 25/07/84	BOL-CWS-010 13/08/84	BOL 23/05/84-24/10/84 US\$1,800p/m	HPE/EPM-61/1/607 27/04/84 21/03/84 23/05/84
00060 OLIVEIRA, Walter Engracia E-05-009 Solid Wastes 07/09/84	BRA AM/BOL-CWS-010 02/12/83 06/07/84 Remitido 20/11/84 memo BOL/1868/84	BOL-CWS-010 \$2,000.00 19/08/84	BOL 19/08/84-08/09/84 14/08/84	HPE/EPM-61/1 30/04/84
00061 SOLSONA, Felipe E - 030 Chemistry 09/04/84 16/06/84	ARG AM/MEX/CWS-010 02/04/84	MEX-CWS-010 13/04/84 18/04/84	MEX 09/06/84-16/09/84 US\$2,000.-- 09/06/84	HPE/EPM/61/1/609/13/04/84 09/06/84
00062 COREY, German E-03-304 Epidemiologia 12/01/84 01/04/84	CHI AM/ECO/EID/010 01/12/83 17/01/84 30/06/84	ECO/EID/010 01/12/83 12/01/84	MEX 01/04/84-30/06/84 US\$2,000/m. 24/01/84	HPE/EPM/61/1 22/12/83 17/01/84 19/01/84
00063 DEMAYO, Adrian E-06-002 Diseño e Impl. Sist.	CAN AM/ELS-CWS-040 22/03/84	ELS-CWS-030 22/03/84	ELS 5 semanas US\$95.00/d.	HPE/EPM/61/1 02/05/84 18/04/84
00064 CASAS, Antonio Mision no fue cumplida (Cancelada)	COR AN/BLZ-DHS-010 26/04/84	BLZ-DHS-010 US\$75/daily 27/05/84	GUY 25/05/84-02/06/84 27/05/84 02/06/84	HPE/EPM/61/1-15/05/84
00065 VAN DIEST, Philip 608-Geochemist 29/06/84	DUT AM/ICP-CWS-030 02/05/84	ICP-CWS-030 23/05/84 07/06/84	SAL 24/06/84/30/06/84 US\$2,000 26/06/84	HPE/EPM-61/1-21/5/84 25/6/84
00066 HICKMAN, J.R. 102-Chemical Hazards 18/95/84	CAN AM/ICP-CWS-030 23/05/84 17/05/84	ICP-CWS-030 US\$125/da 26/06/84	SAL 24/06/84-30/06/84 24/06/84 29/06/84	HPE/EPM-21/05/84
00067 MCJUNKIN, F. Eugene 632-Water Supply and Sanitat. Temporary Adv.	USA AM/ICP-CWS-030 28/06/84 16/05/84	ICP-CWS-030 US\$125/da. 25/06/84	SAL 25/06/84-30/06/84 25/06/84 29/06/84	HPE/EPM-21/05/84 Consultor contratado como
00068 ROSSIN, Antonio Carlos E-01 Ingeniero Sanitario 17/07/84	BRA AM/ELS/CWS-010 04/04/84	ELS/CWS-010 04/05/84	ELS 02/06/84-17/07/84 US\$1,800 02/06/84	RP-ELS-11/05/84 02/06/84

SEQNO NAME AREA EXP/ FOLLOW UP STARTING DATE OBSERVATIONS	NAT ALLOTMEN PROPOSED/CAND/ ACCEPTANCE EXTENDED DATE	PROJECT CR/CONCUR. APL/CONF. EXP. DATE	COUNTRY DURATION SALARY TRAVEL AUTHOR. REPORT	REF/P562 AVAILABILITY LETTER OF OFFER HPE COMMENTS
00124 ROY, Max E-304 Environmental Health	CAN BAR-CWS-010/P3 06/08/84	BAR-CWS-010 US\$2,000.-- 12/08/84	BAR 12/08/84-31/08/84 12/08/84 31/08/84	HPE/EPM/61/1/1107,30/7/84 Received in March 1985
00125 ARELLANO, Jose E-514 STC Relleno Sanitario 18/07/84 18/11/84	CHI PAN/CWS/010/W3 03/07/84 17/07/84 16/12/84	RP-Panama 17/07/84 26/10/84	PAN 18/11/84-16/12/84 US\$2,000.-- 08/08/84	HPE/EPM/61/1/1027,27/6/84 18/11/84 30/10/84
00126 GALVIS, Gerardo Ingeniero Sanitario 12/09/84.	COL MEX/CWS/010/P3 11/06/84	MEX-CWS-010 US\$2,000.-- 18/08/84	MEX 18/08/84-12/09/84 US\$2,000.-- 18/08/84	HPE/EPM/61/1/904,08/06/84 18/08/84
00127 SANCHEZ DE CARMONA, Luis E-317, 311 Human Comfort,Clima 24/07/84 15/08/84	MEX GL/GLO/CWS/902 12/07/84 02/07/84	CWS/010/W3 12/07/84 10/08/84	MEX 06/08/84-15/08/84 US\$1,800p/m 10/08/84	HPE/EPM/61/1/1063,25/7/84 06/08/84 06/08/84
00128 CASSIO DE MORAES, Jose Epidemiologo 27/07/84 31/07/84	BRA ECO/EID/010/P1 11/07/84 23/07/84	ECO/EID/010 US\$1,900.-- 31/07/84	MEX 01/08/84-31/08/84 US\$1,900.-- 31/07/84	HPE/EPM/61/1/1032,11/7/84 32/07/84 01/08/84
00129 FARRER, Ing. Herbert Macromedicacion y Pitometria 20/07/84 08/09/84	COR DOR/CWS/010/P3 16/07/84 20/07/84	DOR/CWS/010 US\$2,000.-- 31/07/84	DOR 25/08/84-08/09/84 25/08/84 24/08/84	HPE/EPM/61/1/1016 2/07/84 27/08/84
00130 MOONSAMMY, Eng. Albert Dev. Cur.Pub. Health Insp.Tng. 03/08/84 28/08/84	GUY BLZ/CWS/010/W3 25/07/84 26/07/84 07/09/84	BLZ/CWS/010 US\$2,000.-- 29/08/84	BLZ 06/08/84-07/09/84 US\$2,000.-- 06/08/84	HPE/EPM/61/1/1078,26/7/84 05/08/84 06/08/84
00131 NINO, Jairo Ext.Coher.Serv.Agua Pot.&Sanea 05/07/84 14/08/84	COL ICP/CWS/030/P3 27/06/84	ICP/CWS/030 26/06/84 02/07/84	CA* 08/07/84-14/08/84 US\$2,000.-- 06/07/84	HPE, 27/06/84 08/07/84 08/07/84
00132 TEJADA, Jorge Evaluacion Socioeconomica 19/06/84 03/07/84	PER ICF/CWS/030/PG 04/06/84	ICF-CWS-030 US\$4,200.* 22/06/84	MEX 24/06/84-27/07/84 US\$4,200.* 22/06/84	HPE/EPM-61/1/863,08/06/84 24/06/84 24/06/84
00133 SABORIO, Oscar Ingeniero Sanitario 02/08/84 10/09/84	COR MEX/CWS/010/P3 26/06/84 07/08/84 18/09/84	MEX-CWS-010 US\$2,000.-- 16/08/84	MEX 10/09/84-18/09/84 US\$2,000.-- 27/08/84	HPE/EPM/61/1/1179,25/6/84 10/09/84 20/08/84
00134 ARELLANO V., Jose E-514, E-01 Rell.san.y cont.am 21/08/84 26/08/84	CHI COL-CWS-010/W3 23/07/84 24/08/84 01/09/84	COL-CWS-010 US\$2,000p/m 10/08/84	COL 26/08/84-01/09/84 US\$2,000p/m 21/08/84	HPE/EPM-61/1/1178 8/08/84 24/08/84 27/08/84
00135 KETTERER, Brian E-01-212 Toxicidad de carcinog 08/08/84 30/11/84	U.K USA-DHS-010/W2 10/07/84 10/08/84	USA-DHS-010 US\$2,000p/m 27/08/84	USA 07/11/84-30/11/84 US\$2,000p/m 27/08/84	HPE/EPM-61/1/1168 7/08/84 10/08/84 07/11/84
00136 MENDES, Rene E-04 417 Salud ocupacional 16/08/84 10/11/84	BRA CHI-CWS-010/W3 13/07/84 08/08/84	CHI-CWS-010 US\$79.00p/d 08/08/84	CHI 04/11/84-10/11/84 US\$79.00p/d 13/08/84	HPE/EPM-61/1/1164 6/08/84 09/10/84 04/11/84
				Trabajo en LUGAR NORMAL DE RESIDENCIA

SEQNO NAME	NAT ALLOTMEN	PROJECT	COUNTRY	DURATION	REF/P562
AREA EXP/ FOLLOW UP	PROPOSED/CAND/ ACCEPTANCE	CR/CONCUR. APL/CONF.	SALARY TRAVEL	AUTHOR.	AVAILABILITY LETTER OF OFFER
STARTING DATE	EXTENDED DATE	EXP. DATE	REPORT		HPE COMMENTS
OBSERVATIONS					
00137 LONDOÑO, Alvaro E-732, 734, 735 Planificacion 20/08/84 02/09/84	COL PER-CWS-020/PG 05/06/84 28/08/84 10/10/84	PER-CWS-020 05/06/84 28/09/84 10/10/84	PER	02/09/84-10/10/84 US\$2,000p/m 23/08/84	HPE/EPM-61/1/1182 8/08/84 21/08/84 20/08/84
00138 NIÑO, Jairo E-713 Analisis financiero 10/08/84 02/09/84	COL PER-CWS-020/PG 05/06/84 25/07/84 10/10/84	PER-CWS-020 05/06/84 28/09/84 10/10/84	PER	02/09/84-10/10/84 US\$2,000p/m 29/08/84	HPE/EPM-61/1/1180 8/08/84 13/07/84 20/08/84
00139 SILVA MARINI, Feliberto E- Suministros 20/08/84 18/10/84	PAR PAR-CWS-021/PG 16/07/84	PAR-CWS-021 16/07/84	PAR	18/08/84-13/10/84 US\$2,000p/m 08/08/84	HPE/EPM-61/1/11 6/08/84 23/08/84
00140 SAENZ, Melio E-06 Control cont.agua 23/05/84 29/06/84	ECU HON-CWS-010/P3 14/03/84 23/05/84	HON-CWS-010 09/05/84	HON	17/06/84-29/06/84 US\$2,000p/m 23/05/84	HPE/EPM-61/1/524 09/05/84 15/05/84 17/06/84
00141 WALDRON, Arturo E- Suministros Cand.en COR,procediose c/F. Silva M.	CHI PAR-CWS-021/PG 25/06/84	PAR-CWS-021 25/06/84	PAR	01/08/84-30/09/84 US\$2,000p/m 01/08/84	30/09/84
00142 DA RIN Piropo, Benito Ing Consultor de Aguas Residuales 07/08/84 29/09/84	BRA MEX/CWS-010-P3 27/07/84 13/08/84	MEX-CWS-010 01/08/84	MEX	08/09/84-29/09/84 US\$2,000.-- 27/08/84	HPE/EPM-61/1/1209,14/8/84 08/09/84 08/09/84
00143 DIAB, Roger STC, Diseño Hospitalario por HSS	CAN ICF-CWS-030-PG US\$4,000 mo 22/07/84	ICF-CWS-030 22/07/84	GUY	22/07/84-21/10/84 22/07/84 21/10/84	HSS, 5 Jul 84 Este Paho fue procesado
00144 GRANDA Ibarra, Antonio,Dr Salud Ocup.Ries.Lab y Enf.Ocup 01/12/84	CUB VEN/OCH/010/P3 26/07/84 13/08/84 04/01/85	VEN-OCH-010 21/08/84	VEN	16/11/84/01/12/84 US\$1,800.-- 28/08/84	HPE/EPM/61/1/1176,01/8/84 16/11/84 16/11/84
00145 FREDERICK, Felipe E-06-735 Planificacion 22/08/84 CANCELAD	PAN PAR-CWS-021/PG 02/08/84	PAR-CWS-021 02/08/84	PAR	CANCELADA US\$2,000p/m 27/08/84	HPE/EPM-61/1 20/08/84 28/09/84 CANCELAD
00146 TEJADA, Jorge E-734 Economia 09/08/84 20/08/84	PER ICF-CWS-030/PG 09/08/84 14/08/84 27/08/84	ICF-CWS-030 10/08/84 -	USA	13/08/84-27/08/84 US\$4,200 mo 14/08/84	HPE/EPM-61/1/1192,10/8/84 09/08/84 13/08/84
00147 BRENES, Carlos Ing.Mecanico 13/08/84 16/09/84	COR MEX/CWS/010/P3 26/06/84 21/08/84 22-09/4	MEX-CWS-010 21/08/84	MEX	16/09/84-22/09/84 US\$2,000.mo 29/08/84	HPE/EPM/61/1/1258,25/6/84 16/09/84 31/08/84
00148 GLOYNA, Earnest F. E-01 Ingenieria Sanit.Ambienta	USA MEX/CWS/010/P3 14/10/84	MEX-CWS-010 14/10/84	MEX	14/10/84-20/10/84 20/10/84	HPE/EPM/61/1/848,21/05/84 02/08/84 No cumplimiento mision
00149 LAURELL, Ana Cristina E-405Docente Salud Ocupacional 05/11/84 17/11/84	MEX VEN/OCH/010/P3 26/07/84 13/08/84	VEN/OCH/010 02/08/84	VEN	11/11/84-17/11/84 US\$1,900 mo 11/11/84	HPE/EPM/61/1/1177,01/8/84 05/11/84 Conima

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00150 ROSSIN, Antonio Carlos Dr E-01, Ingenieria Sanitaria 24/07/84 15/09/84	BRA ELS/CWS/020/DP 19/07/84	CWS-010 24/07/84	ELS US\$1,800 mo 01/09/84	01/09/84-15/09/84	HPE/EPM/61/1/1256,23/7/84 01/09/84
00151 LA MOTTA, Enrique, Dr E-01, Ingenieria Sanitaria 09/07/84 26/08/84	ECU MEX-CWS-010/P3 17/07/84	MEX-CWS-010 17/07/84	MEX US\$2,000 mo 12/08/84	12/08/84-26/08/84	HPE/EPM/61/1/1022,30/5/84 12/08/84 Mexico cancelo consultoria La Motta
00152 RODRIGUEZ Araya, Victor E-630 Especi.Tratamiento Agua 17/08/84 18/11/84	COR DOR/CWS/010/P3 17/08/84 14/08/84 18/11/84	DOR/CWS/010 17/08/84 11/10/84	DOR US\$1,800 mo 27/08/84	04/11/84-18/11/84	HPE/EPM/61/1/1175 31/7/84 02/11/84 04/11/84
00153 SUAREZ, Silvio Augusto E-06-633 Perforacion de pozos 28/08/84 12/10/84	COL PAR-CWS-021/PG 25/07/84 21/08/84	PAR-CWS-021 25/07/84 29/08/84	PAR US\$2,000p/m 24/08/84	22/09/84-12/10/84	HPE/EPM-61/1/1227 17/8/84 28/08/84 22/09/84
00154 De SOTO, Hernando E-06-713, E-03-331 Economico	PER ICP-CWS-010/W3 24/08/84	ICP-CWS-010 24/08/84	CHI 04/11/84-10/11/84	04/11/84-10/11/84	HPE/EPM-61/1/1293 24/8/84
00155 FAINZILBER, Abrahao E-06-700 Aspectos institucionales 01/11/84 11/11/84	BRA ICP-CWS-010/W3 24/08/84	ICP-CWS-010 24/08/84	CHI US\$79.00p/d 11/09/84	04/11/84-11/11/84	HPE/EPM-61/1/1262 24/8/84 01/11/84
00156 MENDES, Rene E-04-417 Prevencion riesgos tr 29/09/84	BRA ICP-DHS-010/W2 23/08/84	ICP-DHS-010 23/08/84	USA US\$98.00p/d 16/09/84	16/09/84-29/09/84	HPE/EPM-61/1 23/08/84 Una semana c/cgo HPE AM/ICP-OCH-010/W3
00157 NUNEZ, Ricardo Ing. E-010 Hidrologo 31/12/84	BOL ELS/CWS/020/DP 24/07/84 30/08/84 20/09/84	CWS-010 16/08/84	ELS US\$2,000.mo 15/09/84	15/09/84-31/12/84	HPE/EPM/61/1/1303,16/8/84 15/09/84
00158 PARAGUASSU DeSa Fernando E-01, Ingeniero Sanitario 24/09/84 20/10/84	BRA MEX/CWS/010/P3 24/09/84	MEX-CWS-010 US\$2,000 mo 06/09/84	MEX 30/09/84 01/10/84	01/10/84-20/10/84	HPE/EPM/61/1/1300,20/8/84 17/09/84
00159 MONTEIRO Penido, Jose H. E-01 Ingeniero Sanitario 20/10/84	BRA MEX/CWS/010/P3 31/08/84	MEX-CWS-010 US\$2,000 mo 05/09/84	MEX 30/09/84 30/09/84	30/09/84-20/10/84	HPE/EPM/61/1/1301,20/8/84 09/09/84
00160 ROSSIN, Antonio Carlos Dr E-01 Ingeniero Sanitario 24/09/84	BRA ELS-CWS-020-DF 19/07/84	CWS-010 24/07/84 11/09/84	ELS US\$1,800 mo 10/09/84	10/09/84-24/09/84	HPE/EPM/61/1/1256,23/7/84 10/09/84
00161 GARCIA Salcedo, Jose Javier E-316 Curso Plaguicidas GUT 15/09/84	MEX ECO/EID/010/P1 22/08/84 31/08/84	ECO/EID/010 22/08/84	MEX US\$78 (TA) 05/09/84	05/09/84-15/09/84	HPE/EPM/61/1/1302,22/8/84 05/09/84
00162 TEJADA, Jorge E-734 Economia 16/10/84 03/11/84	PER ICF-CWS-051-PG 21/08/84	ICF-CWS-051 * 25/09/84	US\$4,200 mo 28/08/84	28/08/84-03/11/84	EPM/61/1/1272, 24/10/84 28/08/84
00163 GARISTO, Mario E-316 Taller Plaguicidas GUT	PAN ECO/EID/010/P1 28/08/84 05/09/84	ECO/EID/010 28/08/84 10/09/84	GUT US\$78 (TA) 09/09/84	09/09/84-15/09/84	HPE/EPM/61/1/1320,29/8/84 09/09/84

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00164 SWEENEY, Hugh D. E-106 Solid Waste Management 24/08/84 08/04/85	USA BAH-CWS-010-P3 22/03/85 15/01/85 07/06/85	BAH-CWS-010 22/03/85 12/09/84	BAH US\$2,000 mo 10/09/84	25/09/84-07/06/85	HPE/EPM/61/1/1307,28/8/84 24/09/84 24/09/84
00165 FACTOR, Diane R. E-04-403 Consolidation of proj 10/09/84 28/09/84	USA COL-CLR-010/W3 14/08/84 29/08/84 Report sent in by CR Colombia	COL-CLR-010 14/08/84	COL US\$109.=p/d	17/09/84-28/09/84	HPE/EPM-61/1/1325 29/8/84 10/09/84 17/09/84 12/10/84
00166 MACHER, Cesar E-01 Contaminacion ambiental 16/11/84	PER BOL-DHS-010/W2 23/08/84 03/09/84	BOL-DHS-010 29/08/84	BOL US\$2,000p/m 06/09/84	16/09/84-16/11/84	HPE/EPM-61/1/1319 23/8/84 23/08/84 16/09/84
00167 GARCIA Salcedo, Jose Javier Asist.present.Curso Plaguicida 22/08/84 05/09/84	MEX ECO/EID/010/P1 22/08/84 22/08/84 15/09/84	ECO/EID/010 22/08/84 31/08/84	GUT US\$78.00 da 31/08/84	05/09/84-15/09/84	HPE/EPM/61/1/1302,22/8/84 05/09/84 06/09/84 TA,Curso Plaguicidas Prevencion Riesgos
00168 FORCADA, Juan Gerardo E-01 Ingeniero Sanitario 04/09/84 19/11/84	ARG MEX-CWS-010-P3 30/08/84 06/09/84 15/12/84	MEX-CWS-010 04/08/84 04/10/84	MEX US\$1,800.mo 04/10/84	19/11/84-15/12/84	HPE/EPM/61/1/1384,3/09/84 21/10/84
00169 OROZCO, Juan Guillermo E-01 Ingeniero Sanitario 20/12/84	COL NIC-CWS-010-W3 28/08/84 10/09/84	NIC-CWS-010 28/08/84	NIC US 1,800 mo 21/08/84	21/08/84-20/12/84	HPE/EPM/61/1/1346,04/9/84 21/08/84 28/08/84
00170 SORBER, Charles E-01 Ingeniero Sanitario 05/09/84 20/10/84	USA MEX/CWS/010/P3 05/09/84	MEX-CWS-010 05/09/84	MEX US\$52. TA 20/09/84	14/10/84-20/10/84	EPM/61/1/1415, 03/09/84 14/10/84 14/10/84 Asesor Temporero mision tamb. en Morelia
00171 GRANT, Robert E-312 Building Regulations STC 27/09/84 12/10/84	JAM BAR-CWS-010/P3 27/08/84 19/09/84 Received 25/03/85	BAR-CWS-010 27/08/84 28/09/84	BAR US\$2,000 mo 24/09/84	30/09/84-19/10/84	HPE/EPM/61/1/1422,23/9/84 23/09/84 23/08/84
00172 DOON, Rohit TA Congres Occupational Health 15/09/84	TRT TRT/DHS/010/W2 07/09/84 07/09/84 07/09/84	HPE-HPW 07/09/84 10/09/84	IRL US\$64.00 08/09/84	08/09/84-15/09/84	HPW, 07/09/84 08/09/84 This PAHO was prepared by HPW Congress in Dublin,Ireland
00173 BREDARIOL, Celso E-01, E-06 Abast.APYDisp.Ex.AM 30/10/84 10/11/84	BRA ICP-CWS-010/PY 11/09/84	ICP-CWS-010 11/09/84 04/10/84	CHI US\$79.00p/d 04/11/84	04/11/84-10/11/84	HPE/EPM-61/1/1406 11/9/84 30/10/84 Part.Simp.Reg.Abast.APYDisp.Exc.Ar.Marg.
00174 AUERSWALD, Dr. Antonio E-01, E-06, Abast.agua y san. 17/10/84 08/02/85	BRA CEP-CWS-180/PG 03/09/84 13/12/84	CEP-CWS-180 03/09/84 13/12/84	PER US\$1,800p/m 12/10/84	07/01/85-08/02/85	HPE/EPM-61/1/1427 14/9/84 19/12/84 07/01/85 Autoridades no aprob.permiso p/ser corto el tiempo

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00175 ARAUZ, David E-01, E-06 Abast.ag.disp.exc. 25/10/84 10/11/84	PAN ICP-CWS-010/PY 12/09/84	ICP-CWS-010 12/09/84 04/10/84	CHI US\$79.00p/d 04/11/84	04/11/84-10/11/84	HPE/EPM-61/1/1405 12/9/84 25/10/84
00176 CAMPBELL, Dr. Tim E. J. E-01, E-06 Abast.APyDisp.Ex.AM 12/10/84 11/11/84	USA ICP-CWS-010/PY 11/09/84 12/10/84 11/11/84	ICP-CWS-010 11/09/84 12/10/84	CHI US\$79.00p/d 04/10/84	04/11/84-10/11/84	HPE/EPM-61/1/1404 11/9/84 12/10/84 04/11/84
00177 LARI, Dr. Fortunato E-01, E-06 Abast.APyDisp.Ex.AM 01/11/84 11/11/84	PER ICP-CWS-010/PY 11/09/84 07/11/84 11/11/84	ICP-CWS-010 11/09/84	CHI US\$79.00p/d 04/10/84	06/11/84-10/11/84	HPE/EPM-61/1/1403 11/9/84 US\$79.00p/d 06/11/84
00178 WITT, Dr. Vicente M. E-01 11/09/84 28/09/84 02/11/84	ECU ICP-CWS-010/W3 11/09/84 18/09/84	ICP-CWS-010 US\$2,300p/m 18/09/84	USA 20/09/84 20/09/84	03/10/84-02/11/84	HPE/EPM-61/1/1397 11/9/84 03/10/84
00179 ALLEN, Dr. Herbert E. E-01-109 Quimica aquatica 14/02/85 22/03/85	USA ARG-CWS-010/P3 20/08/84 05/10/84 22/03/85	ARG-CWS-010 20/08/84 05/10/84	ARG US\$2,100p/m 12/10/84	11/03/85-22/03/85	HPE/EPM-61/1/1432 17/9/84 21/08/84 11/03/85
00180 DEMAYO, Dr. Adrian E-06-631 Stat.,stor.re.ap.wat. 04/03/85 15/04/85	CAN ARG-CWS-010/P3 20/08/84	ARG-CWS-010 20/08/84	ARG US\$75.00p/d 20/02/85	01/04/85-15/04/85	HPE/EPM-61/1/1433 17/9/84 21/08/84 01/04/85
00181 LUKEY, L.J. E-805 Tug Food Plant Inspectio 07/12/84	CAN SUR-CWS-010/W3 29/08/84	SUR-CWS-010 30/08/84	CAN US\$95.--da 01/11/84	01/11/84-05/12/84	HPE/EPM/61/1/1449,29/8/84 01/11/84
00182 CAMPIONI, Jean Joseph E-806 Conduct Food Inspect Crs 27/10/84 07/02/85	CAN SUR-HMD-010/P2 29/08/84 05/12/84	SUR-HMD-010 29/08/84	SUR US\$95.00 da	06/01/85-12/02/85	HPE/EPM/61/1/1446,29/8/84 01/11/84 05/01/85
00183 FARRER, Herbert E-631/613,Opera.yMantto Agua P	COR ELS-CWS-020-DP 30/05/84	Sec.CONIAPO 07/06/84	ELS US\$1,800.mo	24/10/84-23/12/84	HPE/EPM/61/1/1375,01/9/84 15/10/84
03/09/84 23/12/84	19/09/84 16/01/85			24/09/84	24/10/84
00184 VERA, Jose E-714 Financial Evaluation 31/10/84	CHI ICF/CWS/030/PG 17/09/84 26/09/84	HSI/CPC \$US 2,500mo 27/09/84	* 01/10/84	01/10/84-31/10/84	HPE/EPM/61/1/1480,18/9/84
*1-15 Oct 84 Brig.Bar,16-31 Oct	Wash DC				
00185 ROSES, Isabel E-313 Review Plans,drawings 31/10/84	CHI ICF/CWS/030/PG 17/09/84 26/09/84	HSI/CPC 28/09/84 01/10/84	* US\$2,500.mo 01/10/84	01/10/84-31/10/84	HPE/EPM/61/1/1481,17/9/84 01/10/84
1-15 Oct Re-ig BAR 16-31 Oct Wash. D.C.	Review designs of Queen Elizabeth Hospit				

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00186 PERALES, Augusto Victor STC Medical Equipment 19/09/84 01/10/84 *1-15 Oct, Brig. BAR, 16-30	PER ICP/CWS/030/PG 18/09/84 15/09/84 31/10/84 Oct. Wash. D.C.	HSI/CPC 19/09/84 26/09/84 Joint Mission, PAHO/IDB (HSS in charge)	* US\$2,500.mo 26/09/84	01/10/84-31/10/84	HPE/EPM/61/1/1482, 18/9/84 01/10/84 03/10/84
00187 LONDONO, Alvaro E-706 Area comercial 20/10/84	COL BOL-CWS-010/P3 11/09/84	BOL-CWS-010 11/09/84	BOL US\$2,000p/m 07/10/84	07/10/84-20/10/84	HPE/EPM-61/1/1454 18/9/84 14/09/84
00188 MOLINA, Martinez Gustavo E-405, Salud Ocupacional Epide	SWE CUB-OCH-010/P3 04/09/84 04/20/84	CUB-OCH-010 US\$ 87 dail 02/12/84	CUB 01/12/84 08/12/84	02/12/84-08/12/84	HPE/EPM/61/1/1500, 4/09/84 29/03/85
00189 LEITE, Luiz Edmundo Costa E-01 Ingenieria Sanitaria 27/10/84	BRA ARG-CWS-010/P3 18/09/84	ARG-CWS-010 13/09/84 10/10/84	ARG 03/10/84 mo 21/10/84	21/10/84-27/10/84	HPE/EPM/61/1/1541, Oct. 84 21/10/84
00190 TEIKEIRA, Jose Pinto, Ing E-01, Ingeniero Sanitario 03/10/84 13/10/84	BRA ARG-CWS-010-P3 18/09/84	ARG/CWS-010 13/09/84 03/19/84	ARG US\$ 2,000mo 03/10/84	04/10/84-13/10/84	HPE/EPM/61/1/1 , 13/9/84 02/10/84 04/10/84
00191 ESCOBAR, Carlos Ing. E-01, Ingeniero Sanitario Esperando TOR con mayores detalles	COL DOR-MCH-010-P3 30/08/84	Saneami. Amb US\$2,100 mo 30/09/84	DOR 30/09/84 15/10/84	30/09/84-15/10/84	HPE/EPM/61/1/1540, 6/09/84
00192 SIMONS, T. J. Limnologic Studies 21/10/84 30/11/84	CAN MEX/CWS/010/P3 02/10/84 19/10/84	MEX-CWS-010 28/09/84	MEX US\$44.00 da 04/10/84	26/11/84-30/11/84	HPE/EPM/61/1, APL/CS-5543 22/10/84 26/11/84
00193 ALEGRE Martha, Ing. E-01 Ingeniero Sanitario 24/09/84 01/04/85	ARG HON/010/PS/84- 30/08/84 03/10/84	HON/CWS/010 12/12/84 03/10/84	HON US\$1,800 mo 26/02/85	HON 02/03/85-03/04/85	HPE/EPM/61/1/1504 24/9/84 21/11/84 02/03/85
00194 LONDONO, Alvaro E-706, Area comercial 27/09/84 03/11/84	COL BOL-CWS-010/P3 01/10/84 12/10/84	BOL-CWS-010 01/10/84	BOL US\$2,000p/m 10/10/84	BOL 21/10/84-03/11/84	HPE/EPM-61/1/1454 18/9/84 14/09/84 21/10/84
00195 AMARAL, RENATO E-06-620 Cont.calidad agua	BRA MEX-CWS-010/P3 25/11/84	MEX-CWS-010 US\$2,000p/m	MEX 08/12/84	MEX 24/11/84-09/11/84	HPE/EPM-61/1/1904 2/11/84
00196 GARCIA O. Julio Guillermo Consultor en Saneamiento Rural 14/09/84 30/09/84	GUT COR/CWS/010/P3 17/07/84 07/09/84 31/10/84	COR/CWS/010 13/08/84 05/10/84 Recibido 09/04/85	COR US\$1,800mo 05/10/84	COR 30/09/84-31/10/84	HPE/EPM/61/1/1438, 13/8/84 30/19/84 02/10/84
00197 SOLSONA, Felipe, Ing Ingeniero Quimico 11/10/84 02/12/84	ARG MEX/CWS-010/P3 25/09/84	MEX-CWS-010 25/09/84	MEX US\$2,000 mo 19/11/84	MEX 19/11/84-02/12/84	HPE/EPM/61/1/1810, 25/9/84 19/11/84
00198 OVALLES, Omar E-01-113 Tecna.Ger.y Neg.Cas.Co 17/10/84 10/11/84	VEN BRA-CWS-010/W3 20/09/84 12/10/84 10/11/84	BRA-CWS-010 20/09/84	BRA US\$1,800p/m 16/10/84	BRA 04/11/84-10/11/84	HPE/EPM-61/1/1578 2/10/84 09/10/84 04/11/84
para casos de conflicto ambiental	Asesorara CETESB en seminario	tec.ger.y	negociacion		

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00199 CARBALLO, Jorge E-717, Sistema de Informacion 28/09/84 30/09/84	COR HON/CWS/010/P3 28/09/84	HON/CWS/010 28/09/84	HON US\$2,000.mo 01/09/84	01/11/84-30/11/84	HPE/EPM/61/1/1677, 28/9/84 01/09/84
00200 ESCOBAR, Carlos Ing. Analisis de Sistemas ASAP	COL DOR-MCH-010-P3 11/09/84	Saneam.Ambi 11/09/84	DOR ASAP US\$2,100 mo 2 semanas		HPE/EPM/61/1/1540, 6/09/84 ASAP
00201 BERENHAUSER, Carlos J. B. Dictar curso control fugas 03/10/84 12/03/85	BRA COL-CWS-010/W3 27/09/84 05/11/84	COL-CWS-010 17/10/84 26/12/84	COL US\$2,000p/m 21/11/84	01/03/85-12/03/85	HPE/EPM-61/1/1689 19/X/84 03/10/84 01/03/85 Pendiente confirmar nuevas fechas x CEPI
00202 CANTER, Dr. Larry W. E-06-609 Groundwater contamin. 16/11/84 22/11/84	USA CEP-CWS-010/P3 02/10/84	CEP-CWS-010 02/10/84	PER US\$2,000p/m 09/11/84	14/11/84-22/11/84	HPE/EPM-61/1/1793 26/X/84 14/11/84
00203 COREY, Dr. German E-04-405 Epidemiology 08/11/84 08/12/84 al puesto .5699	CHI ECO-EID-010/P1 11/10/84 21/11/84	ECO-EID-010 11/10/84	MEX US\$1,900p/m 21/11/84	22/11/84-08/12/84	HPE/EPM-61/1/1781 25/X/84 22/11/84 B. Rodriguez
00204 RODRIGUEZ, Juan Bautista Obras sanitarias Ocupa cargo permanente .5699	COR BOL-CWS-060/PG 01/11/84	BOL-CWS-060 01/11/84	BOL US\$1,800p/m	CANCELADA	HPE/EPM-61/1/1866 6/11/84
00205 OCHOA, Romulo E-04-410 Quimica industrial 19/10/84 19/11/84	PER BOL-OCH-010/P3 26/09/84 20/10/84	BOL-OCH-010 26/09/84	BOL US\$2,000p/m 24/10/84	04/11/84-19/11/84	HPE/EPM-61/1/1673 18/X/84 20/10/84 04/11/84
00206 SOLANO, Carlos Ing. Opera. y Mantto Sist. de Agua 25/10/84 08/12/84	COR ICP-CWS-070/PG 03/10/84 25/10/84 Received 14/03/85	CWS-070 24/10/84 25/10/84	* US\$1,800 mo 26/10/84	28/10/84-08/12/84	EPM/61/1/1737, 24/10/84 28/10/84 28/10/84
00207 SOLSONA, Felipe Ingeniero Quimico 29/10/84 02/12/84	ARG MEX/CWS-010/P3 26/09/84	MEX-CWS-010 26/09/84	MEX US\$2,000 mo 19/09/84	19/11/84-02/12/84	EPM/61/1/1810, 25/09/84 19/12/84
00208 LONDONO, Alvaro, Ing. Experto en Desarrollo Institu 24/10/84 19/12/84	COL MEX-CWS-010/P3 15/10/84	MEX-CWS-010 22/10/84 02/11/84	MEX US\$2,000 mo 11/11/84	11/11/84-19/12/84	EPM/61/1/1745, 24/10/84 04/11/84
00209 FORCADA, Juan Gerardo Ing Ingeniero Sanitario 09/10/84 15/12/84	ARG MEX/CWS-010/P3 04/09/84 17/10/84 Recibido 07/01/85	MEX-CWS-010 04/09/84 17/10/84	ARG US\$1,800 mo 17/10/84	19/11/84-14/12/84	EPM/61/1/1384, 03/11/84 18/11/84 18/11/84
00210 CARBALLO, Jorge, Ing Consultor en Sistema de Inform 28/09/84 30/11/84	COR HON/CWS/010/P3 03/10/84 23/10/84	HON/CWS/010 28/09/84 23/10/84	HON US\$2,000 mo post.may	HON postergado a Mayo post.may	EPM/61/1/1677, 01/11/84 post.may
					Mision postergada para mayo 1985

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00211 MOLINA, Gustavo, Dr STC Occupational Health 17/01/85 14/04/85	SWE BAR-CWS-010-P2 00/12/84 16/01/85	CPC-HPE 00/12/84	BAR 07/04/85-14/04/85 US\$2,100 mo 21/02/85	EPM/61/1/1756 15/10/84 16/01/85 07/04/85
00212 GALVAO-CASSANHA, Luis A. STC Epidemiologo 15/10/84 15/12/84	BRA ECO/EID/010/P1 10/10/84 19/10/84	ECO/EID/010 10/10/84 24/10/84	MEX 31/10/84-15/12/84 US\$1,800 mo 24/10/84	EPM/61/1/1690, 05/10/84 31/10/84 30/10/84
00213 ORRIS, Greg STC in Training Food Plant 26/10/84 07/02/85	CAN SUR/CWS/010/W3 29/08/84	SUR/CWS/010 29/08/84 23/10/84	SUR 07/01/85-07/02/85 US\$95.TA 22/10/84	EPM/61/1/1449, 29/08/84 05/01/85 07/01/85
00214 DE CERTAINES, Bruno E-06-713 Socioeconomia	FRA ICF-CWS-030/PG IDB IDB 20/11/84	ICF-CWS-030 US\$2,500p/m 2 m/asap	USA Dos meses 2 m/asap	HPE/EPM-61/1/1894 7/11/84 Ac.Coop.Asist.Tecn.OPS/BID
00215 COELHO, Victor E-02-209 Cont. contam. agua 15/12/84	BRA CUB/CWS-010-P3 05/11/84	CUB-CWS-010 05/11/84	CUB 02/12/84-15/12/84 US\$89.00/d. 02/12/84	HPE/EPM/61/1/1910 Asesorar Instituto Invs. Transporte
00216 LEVY, Steven E-05-506 Inc. hazar. sol. wast 15/12/84	USA MEX/CWS/010/P3 08/09/84	MEX/CWS/010 08/09/84	MEX 03/12/84-14/12/84 US\$61.00/d. 02/12/84	HPE/EPM/61/1/1916
00217 DIANDERAS, Augusta E-06-700 Desarrollo instituc. 19/07/85	PER BRA-CWS-020/PG 06/11/84 28/12/84	BRA-CWS-020 06/11/84 10/01/85	BRA 01/20/85-19/07/85 US\$2,000p/m 07/01/85	HPE/EPM-61/1/2020 5/12/84 10/01/85 01/20/85
00218 OZKAYNAK, A. Haluk E-01-101 Contaminacion atmosf. 30/03/85	USA CHI-CWS-010/W3 26/10/84	CHI-CWS-010 26/10/84 18/12/84	CHI 15/03/85-30/03/85 US\$1,900p/m 15/03/85	HPE/EPM-61/1/2019 6/12/84
00219 GARCIA A., Edmundo E-06-606 Disp.liq.residuales 03/12/84 14/12/84	BRA BRA-CWS-010/W3 26/11/84	BRA-CWS-010 26/11/84	BRA 08/12/84-14/12/84 US\$57.00p/d 05/12/84	HPE/EPM-61/1/1967 26/11/8 06/12/84 08/12/84
00220 THOMANN, Robert V. E-02-202 Toxic substances 12/01/85	USA OEP-CWS-010/P3 12/11/84 18/12/84	CEP-CWS-010 12/11/84	PER 06/01/85-12/01/85 US\$120.=p/d 06/12/84	HPE/EPM-61/1/1989 28/11/8 06/01/85
00221 ASTOLFI, Emilio E-100-070 Status Eval. Report 18/01/85	ARG ECO/EID/010/P1 25/11/84	ECO/EID/010 25/11/84 13/12/84	MEX 13/01/85-18/01/85 US\$61.00/pd 13/01/85	HPE/EPM/61/1/2023
00222 NEFUSSI, Nelson E-100-070 Status Eval. Report 18/01/85	BRA ECO/EID/010/P1 25/11/84	ECO/EID/010 25/11/84	ECO 13/01/85-18/01/85 US\$61.00/pd 13/01/85	HPE/EPM/61/1/2022
00223 BLAKE, C.H. E-100-050-Field Superv. 11/01/85	JAM BLZ-CWS-010-W2 27/11/84	BLZ-CWS-010 27/11/84 13/12/84	BEL 07/01/85-11/01/85 US\$124.-/pd 07/01/85	HPE/EPM/61/1/2004
00224 DIAB, Roger E-100-001	CAN ICF/CWS/030/PG 02/11/84	ICF/CWS/030 02/11/84	GUY 26/11/84-17/12/84 US\$1,700/pe	HPE/EPM/61/1/1853

App. on reimbursable basis for sal. only

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00225 FINKLEA, John E-100-070 Status Eval. Report 18/01/85	USA ICP/CWS/030/W3 25/11/84	ICP/CWS/030 25/11/84 11/12/84	MEX 13/01/85-18/01/85 US\$61.-/p/d 13/01/85	HPE/EPM/61/1/2021
00226 Luis Antonio Alcoforado	BRA DOR CWS-020/PG	DOR-CWS-020	DOR 01/02/85-31/04/85	HPE/EPM/61/1/003
00227 DA SILVA, Manuel A. S. E- Ing.San.y Quimico 05/03/85 24/03/85	BRA BOL-CWS-030/PG 15/11/84 06/03/85	BOL-CWS-030 06/03/85 09/01/85	BOL 15/03/85-24/03/85 US\$2,000p/m 15/03/85	HPE/EPM-61/1/1998 4/12/84 06/03/85 15/03/85
00228 LONDONO, Alvaro E-726 Planificacion 14/07/85	COL BOL-CWS-050/PG 22/05/84	BOL-CWS-050 22/05/84 14/02/85 15/03/85	BOL 17/03/85-14/07/85 US\$2,000p/m 15/03/85	HPE/EPM-61/1/094 16/01/85 11/03/85
00229 OROZCO, Juan Guillermo E-01 Ingeniero sanitario Segun indicaciones D,puesto no sera lle-	COL NIC-CWS-010/W3 09/11/84 09/01/85	NIC-CWS-010 09/11/84 20/12/84	NIC 02/02/85-02/01/86 US\$1,800p/m 02/02/85	HPE/EPM-61/1/2032 7/12/84 02/01/86 nado este bienio;continuara como STC por 11 meses
00230 OROZCO, Guillermo E- Agua rural	COL ARG-CWS-010/P3 30/11/84	ARG-CWS-010 30/11/84	ARG 04/03/85-25/03/85 US\$2,000p/m	HPE/EPM-61/1/2057 13/12/8
00231 ALCOFORADO, Antonio E-100-070 30/11/84 15/06/85	BRA AM/DOR-CWS-020 23/10/84	DOR-CWS-020 US\$2,000/m.	DOR 04/02/85-15/06/85 23/10/84 04/02/85	HPE/EPM/61/1/0003 07/02/85 13/05/85
00232 AYALA, Jairo E- Experto en Pitrometria 31/01/85 23/02/85	COL MEX/CWS/010/P3 07/12/84	MEX-CWS-010 31/01/85 29/01/85	MEX 10/02/85-23/02/85 US\$2,000/m. 10/02/85	HPE/EPM/61/1/0047-10/1/85
00233 BARRERA, Clara E-04 Salud ocupacional 28/01/85 01/03/85	COL ICP-OCH-010/W3 23/01/85 31/01/85 09/03/85	ICP-OCH-010 23/01/85 15/02/85	WDC 01/03/85-09/03/85 US\$128.-p/d 15/02/85	HPE/EPM-61/1/0217 5/02/85 31/01/85 19/02/85
00234 FARRER, Herbert E-719, 724 05/03/85	COR ICP-CWS-080/VW 17/01/85	ICP-CWS-080 17/01/85	BOL 05/03/85-05/05/85 US\$2,000p/m 05/03/85	HPE/EPM-61/1/0102 17/1/85 Mora (COL)
00235 FARRER, Herbert E-719, 724 08/01/85 04/02/85 18/06/85	COR BOL-CWS-060/PG 26/11/84 09/01/85 02/03/85	BOL-CWS-060 26/11/84 18/01/85	BOL 04/02/85-02/03/85 US\$2,000p/m 24/12/84 CANCELLED;Replaced by J.C.Olmedo	HPE/EPM-61/1 14/12/84 09/01/85 07/01/85 19/04-
00236 HENAO, Samuel por HSC	COL PER-DHS-020/W2 24/01/85	PER-DHS-020	PER 24/01/85-22/02/85 22/02/85	16/01/85 Esta siendo contratado

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00237 LEVY, Natalio E-05 29/11/84 22/02/85 17/05/85	ARG BRA-CWS-010/W3 29/11/84	BRA-CWS-010 US\$2,100p/m 21/03/85	BRA	06/05/85-17/05/85	HPE/EPM-61/1/0110 21/1/85 06/02/85
00238 LIBEL, Marlo E-03-304 Epidemiologia 25/01/85 23/02/85	BRA ICF-CWS-030/PG 18/01/85 14/02/85	ICF-CWS-030 14/02/85	MEX	29/01/85-23/02/85	HPE/EPM-61/1 13/02/85
00239 MENDES, Rene E-04 14/01/85 28/01/85 20/03/85	BRA ICP-OCH-010/W3 31/01/85	ICP-OCH-010 US\$128.=p/d 31/01/85	WDC	31/01/85-20/03/85	HPE/EPM-61/1/0164 31/1/85
00240 MENDES, Rene E-04 11/01/85 28/01/85 25/02/85	BRA PER-HST-010/P2 10/01/85	PER-HST-010 US\$76.00p/d 28/01/85	PER	16/02/85-25/02/85	HPE/EPM-61/1/0129 23/1/85
00241 SANDERS, Frank E-01-116 Toxic substances 07/02/85	USA BRA-DHS-010/P2 03/01/85	BRA-DHS-010 03/01/85	BRA	26/01/85-07/02/85	HPE/EPM-61/1/0090 16/1/85
				32.=B,43.=R 26/01/85	Imposibilitada;mision cancelada
00242 RODRIGUEZ E., Enrique E-01 Ing. Sanitario 10/08/85	MEX COR-CWS-010/P3 09/05/85	COR-CWS-010 09/05/85	COR	01/07/85-10/08/85	HPE/EPM/61/1/075 04/06/85
00243 BERENHAUSER, Carlos E-06-614 21/01/85 11/03/85	BRA ICF/CWS/050/W3 21/01/85 13/02/85	ICF-CWS-050 25/01/85 13/02/85	WDC	24/02/85-11/03/85	HPE/EPM/61/1/0232-6/02/85 21/01/85 24/02/85
00244 NEFUSSI, Nelson E-100-070 Status Eval. Report 31/12/84 18/01/85	BRA ECO/EID/010/P1 28/12/85	ECO/EID/010 31/12/85	ECO	13/01/85-18/01/85	HPE/EPM/61/1/2022 31/12/84
00245 CARBALLO, Jorge E-717 03/10/84	COR HON/CWS/010/P3 15/01/85 05/11/85	HON/CWS/010 US\$2,000/m 24/02/85	HON	24/02/85-23/03/85	HPE/EPM/61/1/1853-2/11/85
00246 CARBALLO, Jorge E-700-713 Institu. Analyst 12/85 20/02/85	COR ICF/CWS/030/PG 16/10/84	ICF/CWS/030 16/10/84	GUY	03/02/85-20/02/85	HPE/EPM/61/1/2079-18/12/84
00247 DIAB, Roger E-Diseño Hospitalario	CAN ICF/CWS/030/PG GUY Nov. 84 15/12/84	ICF/CWS/030 US\$1,700* 26/11/84	GUY	28/12/84-13/12/84	HPE-EPM/61/1/1853-2/11/85
				17/12/84	
					*Appoint. on reimburs. basis for salary.
00248 ETIENNE, Gerard E-San. Engineer/Train. Method. 29/01/85 23/03/85	HAI HAI-CWS-010/P3 HPE/RR	HAI-CHS-010 14/02/85	HAI	03/03/85-23/03/85	HPE/EPM/61/1/0156-29/1/85
00249 FERNANDEZ OSORIO, Jorge E-04-405 24/02/85	MEX CUB/HST/010/W2 17/01/85 08/02/85	CUB/HWT/010 17/01/85 08/02/85	CUB	10/02/85-24/02/85	17/01/85 US\$1,600/m. 10/02/85

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00250 LAURENT, Eugene E-01-107 25/01/85	TRT CPC/MPN/010/P2 10/01/85	CPC/MPN-010 10/01/85	BAR US\$104.-/d. 24/01/85	24/01/85-25/01/85	15/01/85
00251 LIBEL, Mario E-Atencion Primaria 25/01/85 08/03/85	BRA ICF/CWS/030/PG 08/03/85	ICF/CWS/030 04/02/85	BRA US\$1,900/m. 25/01/85 29/01/85	29/01/85-08/03/85	
00252 LONDOÑO, Alvaro E-900-905 Desarrollo Institu. 07/11/84 21/11/84	COL MEX/CWS/010/P3 30/10/84	MEX/CWS/010 30/10/84	MEX US\$2,000/m. 11/11/84	11/11/84-21/12/85	07/11/84
00253 LARA, Victor E-Usos y Perspect. Epidemiolog	DOR DOR/HST/010/P2 MEX 29/12/84	DOR/HST/010 US\$61.-/pd. 03/12/84	MEX 03/12/84-08/12/84	08/12/84	HPE/EPM/61/1
00254 252					
00255 AZEVEDO N., J. M. de Diseno redes de alcantarillado 26/03/85 21/04/85	BRA CEP-CWS-010/P3 15/02/85 21/03/85 04/05/85	CEP-CWS-010 15/02/85 28/02/85	PER US\$89.00p/d 28/02/85	21/04/85-04/05/85	HPE/EPM-61/1/319 19/02/85 21/03/85 11/03/85
00256 CHOVIL, Hernando E-704 Plan de cuentas y anal. 28/02/85 07/04/85 Brasil	COL BRA-CWS-040/PG 15/05/85 15/05/85 06/07/85	BRA-CWS-040 15/05/85 20/02/85 05/06/85	BRA US\$2,000p/m 26/03/85	07/04/85-06/07/85	HPE/EPM-61/1/024 17/05/85 15/05/85 20/03/85 Extendido a solicitud RP
00257 GUERRERO, Enrique E-04 Salud ocupacional 20/03/85 15/03/85	COL ICP-OCH-010/W3 29/01/85 15/02/85	ICP-OCH-010 29/01/85 22/02/85	COL US\$48.50p/d 15/03/85	08/03/85-15/03/85	HPE/EPM-61/1/309 19/02/85 15/02/85 08/03/85
00258 VARGAS, Carlos E-07-731 Coordinador de proy.	CHI PAR-CWS-021/PG 31/05/85	PAR-CWS-021 US\$2,300p/m 23/09/85	PAR 28/05/85 21/12/85	23/09/85-21/12/85	HPE/EPM-61/1/87 06/06/85
00259 SANCHEZ, Walter E-700 Reorganizacion instituc. 10/03/85	BRA BRA-CWS-010/W3 26/02/85 27/02/85	BRA-CWS-010 26/02/85 27/02/85	BRA US\$128.=p/m 08/03/85	01/03/85-10/03/85	HPE/EPM-61/1/386 26/02/85 26/02/85 01/03/85
00260 SOLANO, Carlos E-719, 724 Operacion y manten.	COL ICP-CWS-080/VW 3/05/85	ICP-CWS-080 3/05/85	BOL US\$2,000p/m Des mese	Dos meses asap	HPE/EPM-61/1/102 19/02/85 18/02/85
00261 VARGAS, Carlos E-726 Planificacion 20/02/85 04/05/85	CHI PAR-CWS-021/PG 08/02/85 22/02/85	PAR-CWS-021 08/02/85 22/02/85	PAR US\$2,000p/m 15/03/85	24/03/85-04/05/85	HPE/EPM-61/1/267 11/02/85 20/02/85 24/03/85

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00262 WITT, Vicente E-100 Saneamiento ambiental 20/02/85 15/03/85	ECU ICP-CWS-010/W3 20/02/85	ICP-CWS-010 20/02/85 27/02/85	WDC 25/02/85-26/03/85 US\$2,300p/m 25/02/85	HPE/EPM-61/1/355 20/02/85 20/02/85 26/03/85
00263 ANDERSON, George K. E-06-611 Trat.residuos indust.	U.K COL-CWS-050/PG 13/02/85	COL-CWS-050 13/02/85 26/03/85	COL 22/04/85-05/05/85 US\$2,500p/m 22/04/85	HPE/EPM-61/1/558 13/03/85 12/02/85 05/05/85
00264 BLANCO, Vita E-09-915, 902 Educador sanita. 01/07/85	PAR PAR-CWS-021/PG 25/02/85	PAR-CWS-021 25/02/85	PAR 01/05/85-01/06/85 US\$2,000p/m 01/05/85	HPE/EPM-61/1/527 12/03/85
00265 CASTILLO, Jorge E-06-607 Dispos.aguas neg.y ds 08/04/85 15/04/85	CHI ICP-CWS-030/P3 06/03/85	ICP-CWS-030 06/03/85	CHI 15/03/85-15/04/85 US\$38.50p/d 18/03/85	HPE/EPM-61/1/481 06/03/85 05/03/85 15/03/85
00266 DIANDERAS, Augusta E-06-725 20/02/85	PER BRA-CWS-040/PG 14/02/85	BRA-CWS-040 14/02/85	BRA 11/02/85-20/02/85 US\$2,000p/m 11/02/85	HPE/EPM-61/1/561 13/03/85 14/02/85
00267 GLOOSCHENKO, Walter A. Eutrofizacion de lagos 05/05/85 reemplazo	USA BRA-CWS-010/W3 14/02/85	BRA-CWS-010 20/03/85	BRA 21/04/85-05/05/85 US\$ p/d 21/04/85	HPE/EPM-61/1/543 12/03/85 14/02/85 reemplazo
00268 JACKSON, William B. Control de ratas 26/02/85 13/06/85	USA BRA-CWS-010/W5 30/01/85 26/02/85	BRA-CWS-010 07/02/85 28/05/85	BRA 02/06/85-13/06/85 US\$2,100p/m	HPE/EPM-61/1/505 08/03/85 28/05/85 02/06/85
00269 LAURIA, Donald Sanitary engineering 05/04/85 05/06/85	USA PAR-CWS-021/PG 25/02/85	PAR-CWS-021 25/02/85	PAR 12/05/85-05/06/85 US\$2,300p/m 22/04/85	HPE/EPM-61/1/525 12/03/85 03/05/85 12/05/85
00270 MENDES, Rene E-04-401 Occupational health 13/02/85 22/03/85	BRA ICP-OCH-010/W3 13/03/85	ICP-OCH-010 06/03/85 20/03/85	USA 01/02/85-22/03/85 US\$2,300p/m 01/02/85	HPE/EPM-61/1/476 06/03/85 13/02/85
00271 NIMO, Jairo E-07-714 Analisis financiero 22/03/85 15/05/85	COL PAR-CWS-021/PG 25/02/85 22/03/85	PAR-CWS-021 25/02/85	PAR 01/04/85-15/05/85 US\$2,000p/m 28/03/85	HPE/EPM-61/1/526 12/03/85 01/04/85
00272 NIMO, Jairo E-07-714 Analisis financiero 22/03/85 21/12/85	PAR PAR-CWS-021/PG 25/02/85 22/03/85	PAR-CWS-021 25/02/85	PAR 03/11/85-21/12/85 US\$2,000p/m 28/03/85	HPE/EPM-61/1/535 12/03/85 03/11/85
00273 SOLARES B., Carlos E-06-611 Dispos.aguas neg.y ds 08/04/85 16/05/85	GUT ICP-CWS-030/P3 06/03/85	ICP-CWS-030 06/03/85	GUT 16/04/85-16/05/85 US\$39.00p/d 25/03/85	HPE/EPM-61/1/480 06/03/85 28/02/85 16/04/85
00274 VARGAS, Carlos E-07-731 Coordinador de proy. 28/05/85 21/12/85	CHI PAR-CWS-021/PG 25/02/85 29/05/85	PAR-CWS-021 25/02/85 29/05/85	PAR 09/06/85-21/12/85 US\$2,300p/m 31/05/85	HPE/EPM-61/1/528 12/03/85 09/06/85
00275 LERNER, Telvangio E-06-706 Comercial 14/03/85	BRA ECU-CWS-020/PG 07/09/85 22/03/85	ECU-CWS-020 23/02/85	ECU 15/04/85-15/07/85 US\$2,000p/m 28/03/85	HPE/EPM-61/1/574 15/03/85 14/03/85 15/04/85

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00276 DE LELIS, Adilson E-06-714 Financiero contable 26/02/85 13/07/85	BRA ECU-CWS-020/PG 07/09/85 22/03/85	ECU-CWS-020 13/02/85 15/04/85	ECU 15/04/85-14/07/85 US\$2,000p/m 15/04/85	HPE/EPM-61/1/577 15/03/85 26/02/85 14/04/85
00277 OLMEDO, Juan Coronado E-06-719, 724 Operacion y mant 26/04/85 29/04/85	ELS ICP-CWS-080/VW 05/03/85 26/04/85 28/06/85	ICP-CWS-080 05/03/85 22/03/85	BOL 29/04/85-28/06/85 US\$2,000p/m 29/03/85 Exceso 50 kls. autorizado	HPE/EPM-61/1/588 18/03/85 26/04/85 26/03/85
00278 ASANO, Takashi E- Wastewater reuse 05/04/85 20/04/85	JAP ICP-CWS-030/P3 07/03/85 05/04/85	ICP-CWS-030 07/03/85	ANT 14/04/85-21/04/85 170.=/118.= 13/03/85	HPE/EPM-61/1 05/05/85 14/04/85
00279 BASTOS S., Ma. Elisa P. E-03-323 Toxic substances 09/03/85	BRA ECO-EID-010/P1 31/01/85 20/02/85	ECO-EID-010 31/01/85 20/02/85	MEX 24/02/85-09/03/85 US\$ 90.=p/d 08/03/85	HPE/EPM-61/1 19/02/85 25/02/85 24/02/85
00280 BENAVIDES, Roberto 07/01/85	GUT 07/01/85	ELS US\$. = p/d	15/01/85 Por recibirse PAHO-562	
00281 CASTILLO-S., Carlos E-03-310 Epidemiologia 30/03/85	MEX ICF-CWS-030/PG 11/02/85	ICF-CWS-030 11/02/85	VEN 01/03/85-30/03/85 US\$1,900p/m 01/03/85 CANCELADA MISION POR APL/CS 18/03/85	HPE/EPM-61/1 18/02/85
00282 CHEZE, Jacques E- Water supply eval. 08/03/85 31/05/85	FRA HAI-CWS-010/P3 03/03/85	HAI-CWS-010 US\$2,000p/m Work at NPR	HAI 14/04/85-31/05/85 03/03/85 12/03/85	HPE/EPM-61/1 03/03/85 14/04/85
00283 COYE, Molly E- 19/02/85	USA ECO-EID-010/P1 US\$ 57.=p/d	ECO-EID-010 Feb.	MEX 24/02/85-06/03/85 06/03/85	HPE/EPM-61/1
00284 GUNNERSON, Charles E- Wastewater reuse 09/04/85 20/04/85	USA ICP-CWS-030/P3 09/04/85	ICP-CWS-030 140.=/88.=	ANT 14/04/85-20/04/85 09/04/85 18/03/85	HPE/EPM-61/1 09/04/85 14/04/85
00285 GERBA, Charles P. E- Wastewater reuse 04/04/85 21/04/85	USA ICP-CWS-030/P3 04/04/85	ICP-CWS-030 170.=/118.=	ANT 14/04/85-21/04/85 04/04/85 18/03/85	HPE/EPM-61/1 04/04/85 14/04/85
00286 GARCIA S., Jose Javier E- 23/02/85	MEX ECO-EID-010/P1 US\$ 90.=p/d	ECO-EID-010	MEX 23/02/85-05/03/85 05/03/85	HPE/EPM-61/1
00287 LAURENT, Eugene E- 19/02/85	TRT CPC-MPN-010/W2 US\$104.=p/d	CPC-MPN-010	BAR 24/01/85-25/01/85 25/01/85	HPE/EPM-61/1
00288 LIVERPOOL, Nicholas E- legislation & water pol. 19/02/85 09/03/85	BAR SAV-DHS-010/P2 15/02/85	SAV-DHS-010 US\$2,000p/m	STV 17/03/85-29/03/85 19/02/85 15/02/85	HPE/EPM-61/1 12/02/85 24/02/85
00289 MENDES, Rene E-04 Salud de los trabajadores	BRA ICP-DHS-010/P2 13/11/84	ICP-DHS&OCH 13/11/84	MEX 25/11/84-01/12/84 US\$ 61.=p/d 25/11/84	HPE/EPM-61/1

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00290 NAOSHI Y., Mario E-06-714 Socioeconomico	BRA ICF-CWS-030/PG 22/02/85 28/02/85 30/04/85	ICF-CWS-030 22/02/85 28/02/85 Consultant will also travel to HON	WDC 13/03/85-30/04/85 US\$2,300 p/m 06/03/85	HPE/EPM-61/1/302 22/02/85 13/03/85
00291 NAOSHI Y, Mario E-714 Socioeconomica	BRA ICF-CWS-030/PG 04/03/85 12/03/85	ICF-CWS-030 04/03/85 06/03/85	WDC 05/03/85-12/03/85 US\$128.=p/d 05/03/85	HPE/EPM-61/1/445 4/03/85
00292 OLIVEIRA, Walter Engracia E- Ingenieria sanitaria	BRA NIC-CWS-010/W3 20/11/84 04/12/84 03/03/85	NIC-CWS-010 20/11/84 17/01/85 28/05/85	NIC 06/02/85-03/03/85 US\$2,000p/m 23/01/85	HPE/EPM-61/1 5/12/84 04/12/84 06/02/85
00293 POLIAKOV, Ivan V. E- Occupational health	RUS CUB-OCH-010/P3 12/10/84	CUB-OCH-010 12/10/84 14/12/84	CUB 15 days asap US\$ 89.=p/d	HPE/EPM-61/1 02/10/84 18/01/85
NOT AVAILABLE, M.I.Zakharenko could re- 00294 ZAKHARENKO, M. I.	RUS CUB-OCH-010/P3 US\$ 89.=p/d 01/02/85	CUB-OCH-010 place him 07/12/84 14/02/85	CUB Feb. 85 two weeks 07/12/84 14/02/85	HPE/EPM-61/1
00295 PERRONE, Nestor E-06-728 Planificacion	ARG ICF-CWS-030/PG 26/12/85 08/01/85 19/01/85	ICF-CWS-030 26/12/85 08/01/85 Consultant will also travel to MEX	WDC 19/01/85-01/03/85 US\$2,300p/m 08/01/85	HPE/EPM-61/1 07/01/85 09/01/85 10/01/85
00296 ROVIRALTA, Guillermo E- Ingenieria sanitaria	COR ICP-CWS-010/W3 07/01/85 04/03/85	ICP-CWS-010 07/01/85 15/01/85 Recibido 07/03/85	WDC 04/02/85-04/03/85 US\$2,300p/m 04/02/85	HPE/EPM-61/1 07/01/85
00297 ROSSIN, Antonio C. E- Ingenieria sanitaria	BRA ELS-CWS-020/DP 04/01/85 09/01/85 17/02/85	ELS-CWS-020 04/01/85 02/02/85 Recibido Feb. 1985	ELS 02/02/85-17/02/85 US\$1,800p/m 02/02/85	HPE/EPM-61/1 19/01/85
00298 ROSES, Isabel E- Arquitectura	CHI ICF-CWS-030/PG 26/12/84 08/01/85 01/03/85	ICF-CWS-030 26/12/84 08/01/85	WDC 19/01/85-01/03/85 US\$2,300p/m 10/01/85	HPE/EPM-61/1 26/12/84 19/01/85
00299 SALVADOR, Mario E- Equipos y perf.pozos	ECU PAN-CWS-010/W3 28/01/85	PAN-CWS-010 28/01/85 11/03/85	PAN 10/03/85-16/03/85 US\$110.=p/d	HPE/EPM-61/1 14/02/85 08/03/85
00300 SANDOVAL, Hernan E-03-310 Epidemiologia	CHI ECO-EID-010/P1 25/11/84 02/03/85	ECO-EID-010 25/11/84	MEX 23/02/85-02/03/85 US\$ 91.=p/d 23/02/85	HPE/EPM-61/1 Dic. 84
00301 SOLSONA, Felipe E- Ingenieria sanitaria	ARG MEX-CWS-010/P3 25/01/85 19/02/85 23/03/85	MEX-CWS-010 25/01/85 15/02/85 16/05/85	MEX 02/03/85-23/03/85 US\$2,000p/m 25/02/85	HPE/EPM-61/1 229 19/02/85 02/03/85

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00302 VITAO, Amadeo E- Arquitectura hospitalar. 10/01/85 09/02/85	COL ICF-CWS-030/PG 26/12/84 08/01/85	ICF-CWS-030 26/12/84 15/01/85	WDC 20/01/85-09/02/85 US\$2,300p/m 16/01/85	HPE/EPM-61/1 26/01/85 10/01/85 20/01/85
00303 VERA, Jose E-06-714 Finanzas	CHI ICF-CWS-030/PG 26/12/84	ICF-CWS-030 26/12/84	WDC 02/01/85-08/03/85 US\$2,300p/m 02/01/85	HPE/EPM-61/1 26/12/84
08/01/85				
00304 ANDERSON, George K. E- Tratamiento residuos ind	U.K COL-CWS-050/PG 13/02/85	COL-CWS-050 13/02/85	COL 22/04/85-03/05/85 US\$2,500p/m 22/04/85	HPE/EPM-61/1/558 13/03/85 12/02/85
03/05/85 00305				
00306 Econ. Emilio Gomez E- BID	SPN ICF/CWS/030/PG US\$3,400/m. 08/04/85	ICF/CWS/030 07/05/85	HAI 08/04/85-07/05/85	HPE/EPM/61/1/0610 20 Mar.
8-10/04 5-7/05/85 Wash.D.C.				
00307 SANDOVAL, Hernan E- 25/11/84	CHI ECO/EID/010/P1 25/11/84 21/12/85	ECO/EID/010 US\$91.-/day 23/02/85	MEX 23/02/85-02/03/85 02/03/85	HPE/EPM/61/1/2005
00308 PENA M, Alfonso E- 25/11/85	COL ECO/EID/010/P1 25/11/85 26/12/84	ECO/EID/010 US\$91.-/day 23/02/85	MEX 23/02/85-02/03/85 02/03/85	HPE/EPM/61/1/2006
00309 HENAO, Samuel E- 25/11/84	COL ECO/EID/010/P1 25/11/84 26/12/84	ECO/EID/010 US\$91.-/day 23/02/85	MEX 23/02/85-02/03/85 02/03/85	HPE/EPM/61/1/2007
00310 HART, Roberto E-06-713 Planificacion 26/04/85 16/05/85	PER BOL-CWS-050/PG 01/04/85 06/05/85 31/12/85	BOL-CWS-050 01/04/85 26/04/85	BOL 16/05/85-31/12/85 US\$2,000p/m 08/05/85	HPE/EPM-61/1/856 16/04/85 06/05/85 29/04/85
00311 SILVA, C. Celso do Amaral E- Accidentes quimicos 22/04/85 26/05/85	BRA ICP-DPR-230/PG 20/03/85 29/04/85 31/05/85	ICP-DPR-230 22/04/85	COL 26/05/85-31/05/85 US\$95.00p/d 22/04/85	HPE/EPM-61/1/668 29/03/85 29/04/85 26/04/85
00312 ESCOBAR, Jorge E- Diseño 22/04/85 31/08/85	COL BOL-CWS-050/PG 22/05/84 09/04/85	BOL-CWS-050 15/02/85 22/04/85	BOL 01/07/85-31/08/85 US\$1,800p/m 15/04/85	HPE/EPM-61/1/698 02/04/85 03/04/85 01/07/85
00313 HERNANDEZ H., Antonio Consultor de HSC,c/fondos BID con fond 13/04/85	COL ICF-DHS/ICF-CW 05/04/85 HSC ECU 25/05/85	ICF-DHS/ICF 05/04/85 WDCyHON	ECU 13/04/85-25/05/85 US\$1,800p/m c/fondos	HPE/EPM-61/1 11/04/85 Extensio BID

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00314 MEIRELLES, Clovis E. E- Epidemiology 26/12/84 02/03/85	BRA ECO-EID-010/P1 25/11/84 26/12/84	ECO-EID-010 25/11/84 26/12/84	MEX 23/02/85-02/03/85 US\$90.00p/d 26/12/84	HPE/EPM-61/1/ 23/02/85
00315 ZANAGA T., Angelo E- Epidemiology 26/12/84 02/03/8	BRA ECO-EID-010/P1 25/11/84 26/12/84	ECO-EID-010 25/11/84 26/12/84	MEX 23/02/85-02/03/85 US\$90.00p/d 26/12/84	HPE/EPM-61/1 23/02/85
00316 ROSSIN, Antonio Carlos E- Sanitary engineering 09/01/85 17/02/85	BRA ELS-CWS-020/DP 04/01/85 28/01/85	ELS-CWS-020 04/01/85 28/01/85	ELS 02/02/85-17/02/85 US\$68.00p/d 13/02/85	HPE/EPM-61/1/135 18/01/85 02/02/85
00317 GARCIA S., Jose Javier E- Epidemiology 26/12/84 05/03/85	MEX ECO-EID-010/P1 25/11/84 26/12/84	ECO-EID-010 25/11/84 26/12/84	MEX 23/02/85-05/03/85 US\$90.00p/d 26/12/84	HPE/EPM-61/1 23/02/85
00318 FARRER C., Herbert E- Operational systems 12/04/85 18/05/85	COR DOR-CWS-010/P3 15/03/85	DOR-CWS-010 15/03/85	DOR CANCELLED US\$2,000p/m 05/05/85	HPE/EPM-61/1 16/04/85
00319 CARBALLO, Jorge E- Commercial systems 12/04/85 21/05/85	COR DOR-CWS-010/P3 15/03/85 12/04/85	DOR-CWS-010 15/03/85 12/04/85	DOR 05/05/85-02/06/85 US\$2,000p/m 22/04/85	HPE/EPM-61/1/751 30/04/85 05/05/85
00320 KRUEGER, Raymond F. E- Hazardous waste storag 18/03/85 14/04/85	USA BAH-CWS-010/W3 21/03/85	BAH-CWS-010 01/03/85 08/04/85	BAH 08/04/85-14/08/85 US\$154.00p/d 08/04/85	HPE/EPM-61/1/612 18/03/85
00321 DE LA TORRE, Mario 18/03/85 19/04/85 HON (12/05-7/06)	ECU ICF-CWS-030/PG 18/03/85 10/04/85	ICF-CWS-030 US\$1,800p/m 08/05/85	HON 08/05/85-07/06/85 07/06/85	HPE/EPM-61/1
00322 DE LOS RIOS, Jorge 26/03/85	PER ICF-CWS-030/PG 26/03/85 01/04/85	ICF-CWS-030 US\$1,800p/m	HON 01/04/85-01/05/85 01/05/85	HPE/EPM-61/1
00323 ROSSO, Ernesto 26/03/85	URU ICF-CWS-030/PG 26/03/85 1/m asap	ICF-CWS-030 US\$1,800p/m	HON 1 month asap	HPE/EPM-61/1
00324 BENAVIDES, Guillermo 18/03/85	COL ICF-CWS-030/PG 18/03/85 20/03/85	ICF-CWS-030 US\$2,000p/m	HON 20/03/85-20/05/85 20/05/85	HPE/EPM-61/1
00325 GONZAGA F., Bento 26/03/85 19/04/85 05/05/85	BRA CEP-CWS-010/P3 26/03/85 19/04/85	CEP-CWS-010 US\$2,000p/m 15/04/85	MEX 19/04/85-05/05/85 19/04/85	HPE/EPM-61/1
00326 LUNA, Jose Luis 16/03/85	MEX MEX-CWS-010/P3 16/03/85	MEX-CWS-010 16/03/85	MEX 17/03/85-19/03/85	HPE/EPM-61/1/858

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00327 ALBERT, Lilia E Desinfeccion aguas	MEX MEX-CWS-010/P3 19/03/85	MEX-CWS-010 19/03/85	MEX 28/03/85-30/03/85 US\$ p/d 28/03/85	HPE/EPM-61/1/856
30/03/85		"AFTER THE FACT" REQUEST		
00328 CORONA, Isabel E Desinfeccion agua	MEX MEX-CWS-010/P3 13/03/85	MEX-CWS-010 13/03/85	MEX 17/03/85-29/03/85 US\$48.00p/d 17/03/85	HPE/EPM-61/1/857
29/03/85		"AFTER THE FACT" REQUEST		
00329 HUBERT, Henrique Ingo E Operation & maintenanc	BRA ICP-CWS-070/PG 02/04/85 26/03/85 25/04/85	ICP-CWS-070 09/04/85 10/04/85	DOR 23/04/85-25/04/85 US\$75.00p/d 15/04/85	HPE/EPM-61/1/684 01/04/85 28/03/85 23/04/85
00330 CAVALCANTI, Adalberto E Commercial systems	BRA DOR-CWS-010/P3 15/03/85	DOR-CWS-010 15/03/85	DOR 05/05/85-22/05/85 US\$2,000p/m 05/05/85	HPE/EPM-61/1/750
22/05/85				
00331 BRAILLE, Victoria E- Contaminacion ambiente	BRA VEN-CWS-010/W2 26/11/84 10/04/85 26/04/85	VEN-CWS-010 26/11/84 10/04/85	VEN 14/04/85-26/04/85 US\$2,000p/m 19/02/85 HP pending of receipt	HPE/EPM-61/1/0024 10/04/85 14/04/85
00332 MUNOZ C., Rafael Work Group EIA	P.R ICP-CWS-010/W3 12/04/85	ICP-CWS-010 02/06/85	JAM 02/06/85-08/06/85 US\$89.00p/d 08/06/85	HPE/EPM-61/1/590 18/03/85
00333 GOMEZ, Emilio E-06-713 Economist	SPA ICF-CWS-030/PG 22/03/85	ICF-CWS-030 04/04/85	WDC 22/04/85-21/05/85 US\$3,400p/m	HPE/EPM-61/1 15/04/85
Travel to HAI too; might be replaced by		P. Pinera due to heart operation		
00334 HENAO, Samuel E- Epidemiology	COL ECO-EID-010/P1 05/04/85 29/06/85	ECO-EID-010 US\$100.=p/d 10/04/85	MEX 01/05/85-29/06/85 05/04/85 01/05/85	HPE/EPM-61/1
00335 FRANCE, Robert E- Water sampling	STV SAL-DHS-010/P2 22/05/85	SAL-DHS-010 22/05/85	SAL 01/07/85-07/07/85 US\$1,900p/m 01/07/85	HPE/EPM-61/1/082 05/06/85
07/07/85				
00336 YANO, Mario Naoshi E-06-713 Economia	BRA ICF-CWS-030/PG 01/05/85	ICF-CWS-030 01/05/85	USA 01/05/85-24/05/85 US\$2,300p/m 01/05/85	HPE/EPM-61/1/953 01/05/85
24/05/85				
00337 ARCHER, Arthur E- Draft Manual Field Op.	BAR CPC-EPG-010/W3 30/04/85	CPC-EPG-010 30/04/85	STK 19/05/85-01/06/85 US\$2,000p/m 19/05/85	HPE/EPM-61/1/988 30/04/85
01/06/85				

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00340 OLIVEIRA, Estanislao E- Eval. contam. agua	BRA BRA-CWS-010/P3 17/04/85	BRA-CWS-010 17/04/85	MEX 15/04/85-20/04/85 US\$59.00p/d 14/04/85	HPE/EPM-61/1/871 17/04/85
21/04/85				
00341 SMITH, Alexander B. E-03-304 Epidemiology	USA NCA-DHS-010/P2 10/05/85	NCA-DHS-010 10/05/85 17/05/85	CAI 12/05/85-18/05/85 US\$115.-p/d 12/05/85	HPE/EPM-61/1 10/05/85
18/05/85				
00342 SIDNEY M., Jose E-06-719 & 724 Oper. & Maint.	BRA DOR-CWS-010/P3 09/04/85 02/05/85	DOR-CWS-010 09/04/85	DOR 10/06/85-21/06/85 US\$2,000p/m 10/06/85	HPE/EPM-61/1/952 02/05/85 08/05/85
21/06/85				
00343 MEIRELLES de M., Gilberto E- Desarrollo institucion	BRA DOR-CWS-010/P3 03/05/85 10/05/85 30/05/85	DOR-CWS-010 02/05/85 03/05/85	DOR 15/05/85-30/05/85 US\$2,000p/m 03/05/85 Reemplaza a Herbert Farrer	HPE/EPM-61/1/959 03/05/85 10/05/85 09/05/85
03/05/85				
15/05/85				
00344 LUQUET, Pablo E- Formulacion proyectos	ARG ICF-CWS-030/PG 07/05/85	ICF-CWS-030 07/05/85	VEN 11/05/85-10/07/85 US\$2,000p/m 11/05/85	HPE/EPM-61/1 07/05/85 03/05/85
10/07/85				
00345 LAURENT, Eugene E-03-307 Env. health impact	TRT CPC-EPG-010/W3 13/05/85	CPC-EPG-010 13/05/85 03/06/85	BAR 03/06/85-04/06/85 US\$ 04/06/85	HPE/EPM-61/1024 13/05/85
00346 GARCIA, Julio E-06 Abast.agua pot.area rural	GUT DOR-CWS-010/P3 10/04/85	DOR-CWS-010 10/04/85 30/05/85	DOR 01/08/85-31/08/85 US\$2,000p/m 01/08/85	HPE/EPM-61/1
30/08/85				
00347 CORNWELL, Ronnie J. E-03 Epidemiology	USA NCA-DHS-010/P2 09/05/85	NCA-DHS-010 09/05/85	CAI 12/05/85-18/05/85 US\$115.-p/d 12/05/85	HPE/EPM-61/1/1009 19/5/85
18/05/85				
00348 SILVA, Carlos Celso do Am E- 22/03/85	BRA BRA-CWS-010/W3 22/03/85 05/04/85	BRA-CWS-010 US\$70.00p/d 14/04/85	MEX 15/04/85-19/04/85 09/04/85 20/04/85	HPE/EPM-61/1/616 22/03/85
00349 AMBROSE, Rupert E- Legislation	USA JAM-CWS-010/P3 01/05/85	JAM-CWS-010 01/05/85	JAM 20/05/85-21/06/85 US\$2,000p/m 20/05/85	HPE/EPM-61/1/964 10/05/85 01/05/85
21/06/85				
00350 ARCHER, Glenn E- Solid waste	BAH BAH-CWS-010/P3 03/05/85 07/05/85	BAH-CWS-010 03/05/85 07/05/85	USA 07/05/85-10/05/85 US\$98.00p/d 09/05/85	HPE/EPM-61/1/968 05/05/85 07/05/85
10/05/85				
00351 ROMERO A., Humberto E- Abastecimiento agua	MEX CEP-CWS-010/P3 01/05/85 20/05/85 13/07/85	CEP-CWS-010 09/05/85 23/05/85	USA 19/05/85-30/05/85 US\$2,300p/m 22/05/85 USA(23-26/6), COL(26-30/6), BRA(30/6-4/7),	HPE/EPM-61/1/922 25/04/85 13/06/85 23/06/85 ARG(4-6/07),
PER(10-13/07) CEPIS				
00352 COSTA, Walter Pinto E-900 Recursos humanos	BRA PER-CWS-020/PG 22/04/85 02/05/85	PER-CWS-020 22/04/85	PER 02/06/85-30/06/85 US\$2,000p/m 02/06/85 IMPOSIBILITADO; CANCELADA MISION	HPE/EPM-61/1 02/05/85 03/05/85
30/06/85				
00353 RUIZ, Domingo E- 06/05/85	VEN PAR-CWS-021/PG 07/05/85 14/05/85	PAR-CWS-021 PAR 01/06/85-30/06/85 US\$2,500p/m 14/05/85	PAR 01/06/85-30/06/85 07/05/85 21/05/85	HPE/EPM-61/1/974 06/05/85 14/05/85 01/06/85
24/05/85				
13/07/85				

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00372 VARAS, Sergio E-06 Agua Potable 13/05/85 15/06/85	CHI ICF-CWS-030/PG 25/04/85 03/05/85	ICF-CWS-030 13/05/85	HAI US\$3,000/pm 09/05/85	29/06/85-15/06/85	HPE/EPM/61/1/947 13/05/85 29/04/85
00373 PICHE, Ronald E-02-209 Agua Potable 30/06/85	FRN HAI/CWS/010/P3 28/05/85	HAI/CWS/010 29/05/85	HAI US\$2,000/pm 02/06/85	02/06/85-30/06/85	HPE/EPM/RR/61/1/028 In replacement of Rejean Jodoin
00374 CHEZE, Jacques E-02-209 Water Supply Systems 04/02/85 31/05/85	FRN HAI/CWS/010/P3 22/01/85	HAI/CWS/010 22/01/85 12/03/85	HAI US\$2,000/pm 14/04/85	14/04/85-31/05/85	HPE/EPM/61/1/0134 29/01/85
00375 PICHE, Rejean E-Train. needs (water & sanit) 14/02/85 04/05/85	CAN HAI-CWS-010/P3 25/01/85	HAI-CWS-010 25/01/85 25/03/85	HAI US\$54.-/pd 28/04/85	28/04/85-04/05/85	HPE/EPM/61/1/0486 14/02/85
00376 VARGAS, Lidia M. C. de E- Ingenieria sanitaria 03/08/85	PER MEX-CWS-010/P3 23/05/85	MEX-CWS-010 23/05/85	MEX US\$2,000p/m 14/07/85	14/07/85-03/08/85	HPE/EPM-61/1 10/06/85
00377 RODRIGUEZ E., Enrique E- Ingeniero Sanitario 10/08/85	MEX COR-CWS-010/P3 09/05/85 12/06/85	COR-CWS-010 09/05/85	COR US\$1,800p/m 01/07/85	01/07/85-10/08/85	HPE/EPM-61/1/075 04/06/85