



Water Resource Group 2007-08

Fellow Rotarians,

I am pleased to submit the following report on the activities and initiatives of Rotarians and Rotary clubs during the 2007-08 Rotary year. The report is presented in two sections:

- The highlights of the past twelve months—those events and activities which demonstrate the changes taking place in Rotary clubs and districts as they respond to the global need for water and sanitation as the key to better health and economic well-being.
- A catalogue of the many projects reported during the year.

A brief summary of all known projects will be available on the WASRAG website www.wasrag.org – by early October.

Highlights of the Year

Several characteristics stand out in the past Rotary year. Notable is the growing importance of **WASRAG** to Rotarians. It is a means for a club to identify a project partner. It helps Rotarians find experts and best practices. It is a source of information on water/sanitation events and conferences. It allows Rotarians to download presentations, “talking points” and even the DVD “Rotary-The Water Story”. Materials are gradually being translated into the other languages of Rotary.

At the end of the year we recorded almost 800 paid-up members in 60 countries. Many of these Rotarians have been appointed District Water Coordinators thus ensuring close liaison between the Water Resource Group and WASRAG throughout the hierarchy. Further coordination is ensured by the WASRAG policy of appointing to its board every Area Water Coordinator or their designate.

The crowning event of WASRAG’s year was the World Water Summit held in Los Angeles in conjunction with the Rotary International Convention. It attracted over 200 members despite a delay in fixing the date and difficulties encountered by many overseas Rotarians in getting visas for entry to the USA.

The conference featured two themes, both essential for Rotary’s future success on the water/sanitation/health scene. In the morning four outstanding speakers and panelists spoke and moderated discussion, on “Sustainability”. In the afternoon four speakers told us what we must do



to attract multi-million dollar funding. One of the speakers represented PepsiCo Foundation who, as reported below, is seeking a cooperative relationship with WASRAG.

Another major thrust during the year was the preparation of a series of “Best Practice” guidelines. Documents on sustainability and development of groundwater sources are the first of several. Based on “lessons learned” from many initiatives, both Rotarian and elsewhere, these guidelines enable Rotarians to ensure that they will enjoy the maximum benefit from their water/sanitation investment.

Recognition of Rotary and WASRAG as key players in water/sanitation/health

Increasingly Rotary and WASRAG are being recognized as key players in the global water/sanitation/health milieu. A number of factors have contributed to this:

- Proven leadership in the campaign to eradicate polio.
- An ability to co-opt other organizations, NGOs, agencies etc to partner with Rotary clubs on a pragmatic basis.
- Explicit emphasis by successive presidents on water/sanitation issues.
- High profile appearances by Rotarians.
- Conversations/meetings with key decision-makers among the watsan fraternity.
- “Boots-on-the-ground” in every country facing water/sanitation/health issues has led to a number of organizations seeking alliances with Rotary/WASRAG. They include:

- **Global Water Challenge**

The mission of this organization is

“To generate a global movement to meet the urgent need for safe water and sanitation by spurring collective awareness and investment by corporate, public and non-governmental entities”.

The founding partners include Coca Cola Co., CARE, Dow Chemical, Emory Center for Global Safe Water, United Nations Foundation, U.S. Center for Disease Control and Prevention, Water Advocates and Water Partners International. Rotary International is not a member but WASRAG has participated in discussions. GWC intends to channel funding from corporations and foundations to sustainable projects. Rotary clubs/districts could well qualify for grants in the million dollars plus range.

- **Sustainable Sanitation Alliance (SuSanA)**
In anticipation of the International Year of Sanitation (IYS) a number of entities have come together to focus attention on the needs and opportunities to meet the sanitation MDGs. Of especial interest to Rotarians is the appointment of a task force on sustainable sanitation capacity development. WASRAG was represented at a recent meeting and will participate in future discussions. More importantly, WASRAG will receive documentation from these task forces for distribution to Rotary clubs worldwide.
- **International Year of Sanitation (IYS)**
Recognizing the potential importance to Rotarians of the IYS, WASRAG has held discussions with UNICEF on the best means of exploiting the synergy between our two organizations. Of especial interest is the “WASH” (Water, Sanitation & Hygiene) Program where UNICEF sees Rotary clubs world-wide playing a major role. UNICEF is in the process of drafting an MOU defining how WASRAG and UNICEF can work together most effectively.
- **PepsiCo Foundation**
Resulting from a number of meetings, initially orchestrated by Water Advocates, PepsiCo has requested from WASRAG a proposal showing how the two organizations could channel major funding to Rotary clubs engaged in sustainable, integrated, community-based water/sanitation programs. Documentation received from the Rotary India Water Trust for a rainwater-based program in Rajasthan, another from five districts in South Africa and another from Madagascar are seen as examples of projects this cooperative relationship could sponsor.

Rotarians, especially in developing countries, see the need for holistic, integrated, needs-driven projects. Their views were summarised very cogently by a PDG from India who stated

“ If you give someone what you think they need, it is of no value. You must give them what they need.”

This mantra underlies all WASRAG initiatives. It is hoped that The Rotary Foundation will adopt similar guidelines.

This philosophy is demonstrated in the following integrated, holistic projects which focus on the life and livelihood of the community—not merely delivering safe water or installing toilets:

➤ **Kibera Slum-Nairobi**

The local Rotary club, with support from the Rotary club of Denver Southeast and The Rotary Foundation brought together the community, Nairobi Water Board, Kenyan Ministry of Water, Practical Action (the local NGO) and Jomo Kenyetta University to bring integrated water and sanitation to 100,000 of the one million residents. Involving all stakeholders led to a degree of cooperation unknown in the past. Local water committees collect tariffs. The community ensures fair access to the water, keeps the system clean, and promotes proper health and hygiene practices. The Kenyan government, recognizing the sustainability of the project, is considering additional support to expand the project to other slum neighborhoods.

➤ **Nakuru Community Development**

The Rotary club of Nakuru (D-9200) launched a program to harvest rainwater at the household level. Eventually it will bring safe water to over a million people in the watershed. The key element has been the ability to create and train about 20 Rotary Community Corps. Rotarians provide materials for the household systems and training in project management. The RCCs train local householders in construction methods and supervise the work. Each household makes a commitment to the project. They pay for trees they must plant. As each household spends less time in fetching and carrying water they have time to start small businesses. The RCCs train the community in managing a business and help administer micro-lending programs to create a basis for economic growth.

➤ **Uganda Water Program**

The Rotary/Team Uganda is planning a Rotary-led effort to provide clean water to those in need throughout the entire country. It is intended to achieve two goals—to have a significant impact on the lives of millions of people and also to serve as a model/template for other countries.

The program will be divided into three phases. In the first phase—planning the program—data will be collected, needs defined, a baseline established and an application for a grant of \$300,000 submitted to fund the actual start-up. A major factor in this planning phase is to resolve grassroots issues, including getting the community to take ownership of the program, implementing effective maintenance, confirming who will do necessary repairs, who will test the water periodically, how water charges will be levied etc.

Related issues include setting up effective governance, determining priorities for implementation—one administrative district at a time—for example, how to address ethnic issues so that all groups feel they are being treated fairly.

➤ **Madagascar – a country-wide water/sanitation program**

In February 2008 a notable meeting took place between the President of the Republic and a team of Rotarians led by DG Christian Fuard. At that meeting the Rotary team received strong support from the President to lead a country-wide initiative to halve the number of people in the country without safe water by 50 per cent by the year 2012.

The President agreed to the appointment of PDG Jean Veloson Rasolondrainibe, a resident of Madagascar as the official liaison between the Office of the President and Rotary clubs in the country. Prior to that meeting the team had met with the Minister of Energy and Mines who is responsible for water. This meeting provided good insight into the challenge going forward including the wide variation in need and availability of water and sanitation in the country.

Following the meeting with the President the Rotary team met with local representatives of several NGOs operating in the country, including the World Bank, US AID, PSI, African Development Bank, and UNICEF. The next step is a feasibility study which will establish an understanding of the needs, and definition of scope of the program. Funding will be sought initially from local clubs, sponsoring clubs, (especially in France) and TRF. Subsequent phases will be funded from outside sources.

➤ **South Africa Water/Sanitation Program**

Districts 9250, 9270, 9300, 9320 and 9350 have combined to lead a major water and sanitation program in South Africa. The program will be based on rainwater harvesting and will complement this technology as appropriate. All Rotary clubs in South Africa will take ownership of the program under the direction of PDG Tom Borrill. They will partner with many local organizations including ABSA (the community and social development arm of one of the countries largest financial services organization, with over 11,000 volunteers), the Department of Water Affairs and Forestry, Department of Education, provincial water boards, Water Institute of South Africa and the Council for Scientific and Industrial Research.

Reports from Zones and Districts

In the following sections we list the water and sanitation projects that have been reported by Zone Coordinators during the Rotary year 2007-08. This list does not pretend to be complete.

Reporting in Rotary, being what it is, usually touches only those projects where the reporting club seeks financial or other support, or where one of the partner clubs is unusually proud of a major breakthrough. A more complete list documenting all the water and sanitation projects that have been reported through any channel will be available on the WASRAG website by mid-September 2008.

Zone 1 - Z.C. Hitoshi Morita

Six districts—2510, 2530, 2790, 2820, 2830, and 2840—report that over 70 clubs are engaged in water projects at home and abroad. Locally much emphasis is placed on cleaning up rivers and waterways. International projects include:

- D-2510 helping to build check dams for the village of Baan Mong Doi Pui, Philippines;
- D-2520 providing a water tank, reservoir and piping for Kerta village, Bali, Indonesia;
- D-2520 providing water system for Davao in the Philippines;
- D-2840 providing safe water for the community Gawad Kalinga, Philippines.

Zone 2 - Z.C. Takashi Uyeno

- D-2750 is the only district to report significant activity. It is supporting the drilling of over 550 wells with D-3790 in the Philippines.
- D-2600 helped implement artesian wells in Cebu City, Philippines

Zone 3 - Z.C. Morihiko Narukawa

The International Service/WCS committee in D-2660 holds an “International Service/WCS Chairman Meeting” twice yearly for all clubs to share information about water projects etc.

Eighteen clubs are actively engaged in water projects in this district focussing on Southeast Asia, notably Indonesia, Thailand, Philippines, Taiwan and Cambodia. Projects include wells, purification units and storage tanks. Over 10,000 people, mostly students, have benefited. The district would like to help people in Myanmar but the imposition of sanctions prevents the use of TRF Matching Grants.

Zone 4 - Z.C. Hiroshi Yamada

Four districts report water projects in this zone:

- D-2670 focused on donating 200 tube wells to Bangladesh and dug wells in Cambodia. Within the district there is emphasis on cleaning rivers and planting trees.
- D-2700 presented toilets and pipelines to schools in the Philippines and cleaned rivers locally.
- D-2720 is in a joint project with the RC of Chencum (Thailand) to implement a water system to a primary school.
- D-2770 is also cleaning rivers and planting trees and supporting wells in Benin.

Zone 5 - Z.C. Shekhar Mehta

Over 100 projects are reported from this zone where almost every district is committed to a water or sanitation project. The Rotary India Water Conservation Trust serves as an active catalyst for water projects creating awareness that water is everyone’s business. It is a strong proponent of rainwater harvesting and community empowerment. Three community-driven programs have been implemented:

- Churu, a 650 village community will catch the rain and bring it to some one million people;
- Mehsana, with additional support from local government, has brought water to over 300,000 people in Rajasthan;
- Sikwar/Alwar program consists of five projects to build 33 check dams to bring water to over 100,000 people and 50,000 livestock. Funding has been obtained from Rotary clubs in France and from the Latter-Day Saints Charities. The foundation stone for the fifth dam was laid by RIP D.K. Lee and will be named “The Lee Dam” in his honour.

Other activities in this very active zone include:

- The RC of Central Calcutta, supported by the Ryan’s Well Foundation, has implemented 13 tubewell projects to remove arsenic and bring safe water to peri-urban communities.
- RC of Salt Lake Central is seeking support for two projects—a) to build low-cost latrines in a village; b) safe water tubewells. There is also heavy emphasis on building toilet blocks and on rainwater harvesting especially for schools and hospital/medical facilities.
- A document: *“Experiences of Rotary Club of Jamshedpur in Rain Water Harvesting”* has been posted on the WASRAG website. It gives useful insights into how a club can take steps to implement rainwater harvesting.
- RC Ambajogai City (D-3130) plan to provide water purification systems to 25 schools with over 20,000 students.

- RC of Yamunanagar (D-3080) plans 10 public toilets in the community.
- RC of Thane Suburban (D-3140) proposes to harvest rainfall with dams, and construct wells to support vegetable farming and fruit orchards.
- RC of Mumbai West (D-3140) proposes to build a lake to permit a second cash crop, fish farming and better hygiene.
- RC Nigdi (D-3131) plans up to 10 borewells to bring water to several rural villages.

Zone 6A-Z.C. Rehka Shetty

All clubs in Zone 6A were alerted to the importance of water in a pamphlet distributed by the coordinator at the beginning of the Rotary year. This was followed by two workshops/seminars on the topic “Life Giving Water” and complemented by a speakers’ forum on “Water”. This initiative has borne fruit. Almost every club in the zone has been involved in a water/sanitation project.

A notable success under Dr. Shetty’s leadership has been the commitment in the State of Tamil Nadu that every dwelling - old and new - must install rainwater harvesting for drinking water and sewer connection. They are trying to have the same policy adopted in other states in the zone.

Another major initiative has been extensive tree planting in schools. Sustainability is assured by having a student commit to taking care of each tree.

- In Pakistan D-3270, RC of Lahore Mozang is building a reverse osmosis filter plant to bring safe water and toilets to a school in a city where over 50% of the population does not have access. RC Samaro plans a deep well and pumps in rural areas.
- In D-3291, the RC of Calcutta Midtown is building low cost toilets under the banner of “Project Dignity”.
- In Indonesia, D-3400, RC Surabaya Rungkut proposes to build storage tanks, tower, wash bin and piping to bring water to schools with 1000 students.
- D-3180, RC Puttur East plans to give 500 water filters to schools in the district.
- D-3211, RC Changanacherry wants to provide household rainwater harvesting to some 40 families in Kerala.

Zone 7A -Z.C. Peter D. Rostron

A notable initiative in this zone is “Safe Water Saves Lives” (SWSL). This is an umbrella program which facilitates water projects in many districts in the zone.

- D-9450 reports two water projects-one in Indonesia, the other in Africa.
- D-9460, RC of Mandurah City, jointly with D-3400, has implemented a project to bring fresh water to villages in the mountains of east Bali to benefit 2500 people.

- D-9500, RC of Adelaide West, has completed a project to bring water to two villages in Kassala State, Sudan. The Safe Water Saves Lives Committee is supplying a “SkyHydrant” with plumbing and storage equipment to an aboriginal community health centre.
- D-9500 is also working on safe water projects (SWSL) in Pakistan, Rwanda, Peru, Kenya and Sudan and is in the preliminary stages of implementing a comprehensive rainwater harvesting and distribution system in Ethiopia in partnership with the Roman Catholic Church. This district is partnering with Rotary clubs in Cusco (Peru) and an American NGO to rehabilitate four lakes and prevent effluent running into the lake. This project will benefit hundreds of people living around the lake as well as their livestock.
- D-9520-is participating in the SWSL projects in Tanzania and Kenya. Another interesting project in the Sunraysia region of Victoria is a “Health of the River” forum which addresses river and wetland ecology, water quality, pollution, and efficient use of water.
- D-9520 has also signed an agreement with WaterAid Australia to implement a water supply system in Timor Leste. This district is also supporting host Rotarians in Peru to rehabilitate Lake Cuzco.
- D-9570, RC Bundaberg East, is working with the RC of Noosa (D-9600) to bring safe water to a village in Kenya.
- D-9600 has been very active under the leadership of District Coordinator Jan Lawton. Projects include:
 - An arsenic mitigation project in Bangladesh.
 - Many projects in Papua New Guinea, including water supply in Bukapena and wells in Rabaul.
 - Water tanks to Madang.
 - Water supply system to an island in Malaita province where previously villagers brought water by canoe.
 - An ongoing program on Bambanga Island implementing water and sanitation system to schools.
- D-9630, the RC of Carindale is undertaking a major project to protect creek banks, planting trees, enhancing mangrove and testing the quality of the water which feeds into a major fishing and spawning area.
- RC of Loganholme in partnership with clubs from other districts in Australia and USA is implementing rainwater harvesting and 19 tanks in four villages on Viti Levu, Fiji.
- Another major project involving clubs from Australia, USA and Bali is the East Bali Poverty project to bring safe water to over 15,000 people in 19 hamlets.

- D-9640 - has provided water storage tanks to D-9210, and has done a water reticulation project at a school in Mangagay thereby enabling it to stay open.
- D-9650 – a safe water project to Fohorem district, Timor Leste

Zone 7B - Z.C. Vicente J. Carlos, Philippines:

Most districts in this zone are engaged in water and sanitation projects. More details will be available on the www.wasrag.org project listing referred to earlier in this report.

One particularly exciting project is the plan to save the Davao River, a watershed of about 177,000 hectares, from further degradation. The program will be implemented through a riparian group of marginalized workers.

A novel project was undertaken by the RC Makati-Paseo de Roxas, D-3830. A survey among 10 schools revealed that, although the water was occasionally clean, it often was contaminated. After evaluating a number of water purification options, the past president of the club decided to manufacture the prototype of a UV purifier, adapted to local conditions. The cost to manufacture was only 5 per cent of the cost of the original UV model on which he based the prototype. The device has since been tested and delivers water at 99.98% purity!!! It is now being rolled out to beta sites. If it proves successful a major roll-out will be undertaken.

Zone 8 - Z.C. Brian E. Foley

D-9940 reports the construction of a 500,000 litre capacity dam in northern India with the RC of Kasauli. This district also plans a model rainwater harvesting project in the same region.

Zone 10 - Z.C. Shifarraw Bizuneh

East Africa represents a major opportunity for host Rotary clubs and supporting international partners to demonstrate the effectiveness of Rotary to address global water and sanitation issues. Three hundred and fifty projects in 33 countries have been reported and can be found on the website. But, a number of significant developments deserve more space, including:

Ethiopia

- In East and North Shoa, at a cost of \$400,000 (\$300,000 of which came from Seattle Rotarians) 22 springs and 2 boreholes are bringing water to 1 million rural people. A further \$700,000 from Rotarians plus more from the Hilton Foundation and World Vision will extend this program to another million.
- RC Addis Ababa is leading a rural development program in Jaldu to bring water through pipelines from the hills to several communities.
- A third project in south Ethiopia, budgeted at over \$2 million will bring water to 450,000 people and hundreds of livestock.

Kenya

- The Nakuru Water & Sanitation Program (NWSP), a comprehensive program to transform the lives of the poor in the Rift Valley through safe water is available at www.wasrag.org. The program was launched in 2003. Key to success has been the empowerment of a number of RCCs in the local communities, and the financial and “sweat equity” commitment of the villagers. This program is seen as a model for further expansion throughout east Africa.
- Another multi-year program is being launched by the RC of Kitale with support from the RC of Spokane South (D-5080). This program will be based on the use of ceramic candle filters. A series of plants is being set up by Rotarians to produce these filters.
- Yet a third major program in Kenya is based in Kisumu. Here the RC of Atlanta has taken the lead in working with World Vision to raise over \$2 million.
- The National Water Conservation and Pipeline Corporation (NWCPC) recognizing Rotary’s potential to implement change in Kenya, is proposing a cooperative relationship with Rotary to bring water to the semi-arid region south of Somalia, an area recognized as the neediest in the country.
- RC Kisumu aims to help the community to provide safe water to 2500 households.

Uganda

This country sees another big dream unfolding—a comprehensive program, led by Rotary/Team Uganda, to bring safe water to the entire country. The immediate purpose is to improve the lives of millions of people. A second purpose is to develop a model/template for other countries. Other projects in Uganda include:

- A pilot program at the St Francis Nyenga Hospital near Jinja. Utilizing solar UV the project has the potential to bring safe water to hundreds of thousands of people in the country.
- Rainwater harvesting for six primary schools in a low income area is an initiative of the RC of Masaka. Using local labour to build four 30 c.m. ferro-concrete tanks, at a cost of less than \$14,000 will bring water to 3000 students.
- RC of Bukoto proposes to provide rainwater harvesting to several schools in Eastern Uganda.
- RC of Kibaale wants to provide plastic storage tanks to every school in the county.
- RC of Bukoto is providing rainwater harvesting to seven schools

Zambia

D-9210 proposes to lead a country-wide water program in conjunction with many NGOs, foreign embassies, US AID, GTZ (Germany) and other groups. The cost of the first phase is estimated at \$5 million with a total five year budget of \$25 million.

Madagascar

Reference was made in earlier reports to the preparation of a Rotary-led, country-wide water and sanitation program. All Rotary clubs in Madagascar have “signed on” to the program. A preliminary plan has been prepared calling for a combination of technologies—gravity flow, wells, ground water, rainwater harvesting and pipelines. Detailed planning is underway with the cost of the first phase estimated to be about \$3 million.

South Africa

Another country-wide program in which five South African Rotary districts will lead a comprehensive water and sanitation program. Rainwater harvesting will be the core of the initiative, complemented where necessary by wells and pipelines. Partners will include program: ABSA (a major bank), government ministries, local water boards, and many local organizations.

Zone 10 – Z.C. Marie-Irene Richmond Ahoua, West Africa

The West African Rotary Project Fair will be held in Abidjan from November 6th to 9th, 2008. Rotarians from districts 9100, 9110, 9120, 9130, 9140, 9150 will participate display numerous projects. WASRAG members from North America and Europe have been encouraged to attend. Other projects include:

- D-9100, RC of Tema-Meridian is drilling a borehole and supplying storage tanks to bring potable water to a rural peasant community
- D-9150, RC of Bamenda plans a gravity fed pipeline to bring water to 50,000 people in Wum
- Several Rotary clubs in Mali, supported by the Rotaract club, launched a comprehensive tree-planting program to reverse the desertification of the country. Labeled “Sahel Vert Mali” the program received strong support from many political and government leaders. It certainly raised the profile of Rotary in the country.

Zone 10 - Z.C. Naima Smires Kettani , North Africa

“Eco-Villages” is a program to bring water, sanitation and education to some 3000 villagers in Morocco. The underlying problems resulting from a lack of safe water were high illiteracy, especially among young women, and emigration of young people to the cities to find work. The program consists of building a pipeline, controls, water fountains, storage tanks and toilets. It also embraced training in personal hygiene and agriculture. The RC of Casablanca-Anfa is coordinating support from a number of clubs in France and Italy to work on this program.

D-9010 is encouraging all clubs to maximize efforts to bring safe water. Casablanca clubs will undertake far reaching projects with a big impact on the community, including:

- Building a canal to bring water to a poor community with over 70% unemployment;

- Eliminating the need for young girls to spend all day carrying water. This program will free them to attend school and learn to read;
- Digging wells to supply water to toilets and irrigate the campus.

Zone 10 - Z.C. Carles Garriga, Europe

The task of coordinating water and sanitation activities over such a large area is extremely difficult. In the past we tended to receive reports from the coordinator's immediate, "home" district. In one year it was Turkey. This year it was the Iberian Peninsula. Information on water projects from the other districts in this part of Zone 10 have been gleaned from a number of sources—newsletters, miscellaneous correspondence and, of course, TRF reports.

A major event in this zone is the "Expo Zaragoza 2008-Water for Life" As one of the many participants, Rotary clubs from D-2200 and 2210 are hosting a water conference in September 2008.

A number of water projects are planned in Turkey including:

- D-2430, RC of Kemer plans to purchase and install 10 drinking water fountains to protect children from micro-organisms.
- D-2440, RC of Bursa will build a deep well to provide alternative source for drinking and farming.

Zone 11 - Z.C. Pierre A. Espinasse

Most districts in this zone are very supportive of water projects, especially in Francophone Africa:

- D-1510 is working with D-9010 to bring potable water to 150 families in a remote village in Morocco. In another program clubs are working with Rotarians from D-1800 and 2090 to build wells in Mali.
- D-1520, jointly with D-9150, is building wells for a centre for street-children in Cameroon.
- D-1640, D-9150 and D-1640 are building an irrigation and filtration system for the handicapped in Sfax. Another project of this district is bringing safe water to a village in Mali.
- D-1660, 18 clubs are committed to several projects in Francophone Africa, often in cooperation with Eau Sans Frontieres (ESF) - wells and reservoirs for farmers in Morocco and Niger, buying water for several villages in Mali, facilities for the women planting fruit trees in Senegal, water for schools in Burkina Faso and drilling in Madagascar.
- D-1670, roof rainwater harvesting in Madagascar, a water tower in Cote D'Ivoire, planting fruit trees in Senegal.

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- D-1680, 10 clubs are implementing water systems in Benin, Rajasthan, Cote d'Ivoire and planting trees in Senegal.
 - D-1690 has a very active water program. Of the 72 clubs, 32 are committed to water projects. Without naming all of the clubs individually in this excellent district, the following summary of countries benefiting from these Rotary clubs' indicates their commitment:
 - Building a dam to hold rainwater in Kenya;
 - Cleaning up the littoral in Charente;
 - Holding an auction to raise money for potable water systems in Morocco;
 - Supporting students at a school in Burkina Faso to study ways of preventing desertification;
 - Rehabilitating wells in Benin, Guinea-Bissau, Senegal;
 - Planting trees in the Sahel using a special technique to reduce water needs;
 - Organizing a number of community conferences to discuss water issues and educate the public.
 - The RC of Grasse-Amiral (D-1730) is supporting construction of wells and water protection in Burkina Faso. In support of this project the club recently held a cabaret "Water - Source of Life". The item received good coverage in one of the major regional newspapers.
 - D-1700 - wells in a Chad oasis, showers and latrines in Senegal, pumps in Kenya, wells in Essaouira, and planting 20,000 fruit trees in Senegal.
 - D-1720 - building an irrigation system for an education centre in Benin.
 - D-1730 - several clubs are supporting water programs in Burkina Faso, Togo and Senegal.
 - D-1750 - wells and a medical centre for a village in Mali.
 - D-1760 - four clubs are helping to develop a range of water sources in Mauretania, Togo and Morocco.
 - D-1770 - building water kiosks, wells and pumps in Burkina Faso, Togo and Mali.
 - D-1780 - water purification systems, planting trees, building wells in Niger, Mali and Senegal.
 - D-1790 building reservoirs in remote villages in Madagascar.

Zone 12 - Z.C. Roberto Ivaldi

- D-2080 - 40 clubs are working on a variety of water projects in developing countries. Twelve are engaged in Eritrea, five in Benin, four in Mozambique. Other countries supported by this district include Malawi, Congo, Ethiopia, India and Morocco.
- D-2090 (40 clubs) and D-2100 (6 clubs) have combined with the RC of Etobicoke (D-7070) to construct a water supply system in Durazzo City (Albania).
- D-2100 clubs are also working in Togo, Burkina Faso, Honduras, Kenya, Guatemala, Tunisia, Brazil, Turkey and the Philippines.
- D-2120 is involved in a four year project in Benin which aims to improve the hygiene/sanitary conditions in the Lokpo village. The project includes building a drinking water plant for 2550 people, a distribution system, 28 public latrines with running water, seven wastewater treatment plants and a sewer network.

Zone 13-Z.C. Robert Gekiere

Four reports have been received from this zone:

- D-1620 - several clubs in this district are working on a number of water/sanitation projects
 - Rainwater harvesting project in Sri Lanka with the RC of Vavuniya to benefit 300 families;
 - Boreholes in Benin bringing water to 11,000 people;
 - Boreholes, pumps and latrines in Sri Lanka;
 - Check dam and cisterns in Nigeria;
 - Borehole and four pumps in Ouagadou, Burkina Faso.
- D-1980, together with clubs from D-1990 are implementing drinking water projects at a cost of \$350,000 to benefit 50,000 people in Kenya. Another club is supporting four wells and a piping system in Dar es Salaam.
- D-2000 has committed substantial resources to water projects. The first, in the Kibera slum, Nairobi, is supplying and training in SODIS technology. The second is supplying Katadyn filters in Northeast Thailand.
- D-2170 is supporting the promotion of the book of water-related photographs by Belgian photographer, Dieter Telemans.
- The RC of Mechelen Opsinjoor is supporting a potable well project in D-3210, Trivandram, India.
- The RC of Sint-Genesius, with the help of a Matching Grant, is alleviating the water crisis in Cochabamba, Bolivia

Zone 14 - Z.C. Klaus-Peter Schultz

In this zone twelve districts report water/sanitation activities but the extent of participation by clubs is limited. The Zone Coordinator recommends that more emphasis be placed on water and sanitation in zone and district meetings, conferences etc. A suggestion from President D.K.Lee that water, as a cause of child mortality, might be higher on the agenda for the Zone Institute could yield results.

Districts reporting are:

- D-1800:
 - Safe water for mentally disabled children's home, India;
 - Check dams and wells in northern Kenya;
 - Wells and storage systems, Mali;
 - Clean water for schools, India;
 - Water system for irrigation, Ethiopia;
 - Drinking water in Rumania.
- D-1810:
 - Bore well for drinking water, Nigeria;
 - Water purification, Togo;
 - Drinking water supply, Paraguay;
 - Sanitation for children's home, Sri Lanka.
- D-1820, water tanks and latrine, Uganda.
- D-1830:
 - Water pumps, storage tanks, piping, Philippines
 - Rainwater harvesting, storage system, Tanzania
 - Drinking water supply, Philippines
 - Pumps and filters, Thailand
 - Water pipeline, Tanzania
- D-1840:
 - Water to 5 villages in Mali;
 - Solar water pump, Mexico;
 - Drinking water supply, Ghana;
 - Check dam, pipelines, tanks, 25 public water stations, Tanzania;
 - Check dam, power plant and irrigation system. Ecuador.

- D-1850:
 - Well, spares, sanitary installation, Guinea;
 - Five water reservoirs, pipelines and storage for drinking water, Indonesia;
 - Water pumps for a school, Zimbabwe.
- D-1860:
 - Wells, storage, filters and maintenance, Philippines;
 - Bore hole to supply clean water to hospital.
- D-1870:
 - Wells, pumps, pipes, tap station, Moldova;
 - Rainwater harvesting, Tanzania;
 - 17 pumps to provide drinking water to a community, India.
- D-1890:
 - Drinking water piping system, Benin;
 - Pumps, filters, storage for rainwater harvesting, India.
- D-1910-solar pump and pipeline to reduce the need for children to carry water to village.
- D-1940-drinking water piping system, Benin.
- D-1950-bore holes for 2 villages, Burkina Faso, wells, pumps, tap station, filters, Togo.

Zone 15-Z.C. Thord Soderlund

No reports have been received from this zone during the year.

Zone 16 - Z.C. Nils Ove Jensen

Four districts have reported water/sanitation projects during the year:

- D-1440, jointly with eight other districts, designed a project to filter river water and make it potable and suitable for livestock.
- D-1460, clean water for schools in Java.
- D-1480:
 - Borewell, pumps and piping for community and livestock, Zambia
 - Rainwater harvesting for schools, Uganda
 - Borewell for children's home, Uganda
- D-2280, drinking water wells, Philippines
- D-2360, water tank for school, Tanzania
 - 14 protected springs, Kenya
 - Clean drinking water to a school, Nigeria

Zone 17 - Z.C. Iain R. Young/ Zone 18 - Z.C. Himansu K. Basu

Many clubs in Zones 17/18 regularly support and partner with WaterAid. This relationship has lasted over 25 years and has led to significant recognition for Rotary. Joint projects have covered many applications including the boring of wells, and sanitation projects. Some of the specific initiatives at the club and district level include:

- Linking with WaterAid for a project in Tanzania to celebrate World Water Day.
- Purchasing and distributing the LifeStraw (RC of Bryn Mawr) for use in post-disaster conditions and for inclusion in Shelter Boxes e.g. to Ethiopia and India following severe flooding, and Kenya, Zambia, Rwanda and Benin. They have also been delivered to an orphanage and hospital in Tabasco, Mexico, and a Search & Rescue team in Mohave, Arizona.
- Supplying Water Survival Boxes (RC of Chelwood Bridge) containing water purification equipment sufficient for a family of four, for a four month's supply of potable water.
- Life-Box (RCs of Denton & Audenshaw) is an emergency box, containing clothing and humanitarian relief items for post disaster relief, including LifeStraws.
- ShelterBox (RCs of Helston & Lizard) contains survival, shelter, and humanitarian aid items including LifeStraws where appropriate.
- Aquabox (RC of Wirksworth), containing water purification kits, is capable of producing up to 2200 litres of drinking water. They also contain humanitarian items. These boxes are supplied regularly through many NGOs, for the relief of poverty stricken areas, and the provision of clean drinking water, where no other source of this exists. To-date these boxes have been supplied to 18 countries through 16 Aid Agencies. Since the inception of the project in 1990, some 76,458 boxes, capable of producing a potential 384,026,500 litres of safe water have been distributed.

Other projects in this Zone include:

- D-1020:
 - Supporting a rainwater harvesting and latrines project in Kalimpong, India
 - Supporting the "Livingstonia" program in Malawi
 - Providing latrines to a disabled workshop in Mozambique
 - Providing bore holes at a hospital and primary school in Malawi
- D-1080-providing a further 17 deep, hand-dug wells in remote western Zambia in conjunction with Village Water, a UK charity.

Zone 19 - Z.C. Silvio Paulo Prodohl

Much emphasis has been given in this zone to participation in water-related conferences, including:

- D-4840, a program to protect natural resources.
- D-4790, a conference of the Committee of hydrological resources which concluded that there is a need for federal government involvement—to create a hydrological agency, to create laws to protect ground water and aquifer resources and to coordinate legislation with international agencies. The committee is concerned about environmental impacts - monitoring discharge to watersheds, ensuring sustainability, encouraging everyone to think water quality. The Rotary leadership of the committee is focusing on the province of West Chaco where there is a serious lack of potable water.
- D-4890 Paraguay - sponsored a water seminar which reached an agreement to cooperate with the Environment Secretary and another with the Minister of Ecology of Environment. The district held a seminar at which representatives from these ministries played a major role.
- D-4920 is trying to engage all five districts in a major water program. In these districts the population numbers five million of whom 2.2 million lack access to safe water. Following the water seminar the RC of Tandil Oeste proposed that the Rotary year be declared the “Year of Protection of National Use of Water”. Activities included-creating awareness among Rotarians of the basics of water, spreading information among children, designing a decal for vehicles, arranging conferences every two months.

Zone 20 - Z.C. Marcio Sansao

We have received only limited information from this Zone although we understand there are many projects under way and contemplated. D-4310, the RC of Saltinho plans an artesian well to bring water to 600 people who currently receive water by truck.

Zone 21-Z.C. Manuel Martinez Arteaga

Water and sanitation is a major concern of all clubs in Central America.

PRIP Luis Felipe Valenzuela’s presentation to the Zone Institute provoked a lively discussion on water issues and sensitized all Rotarians to the need to regard water as a valuable and scarce resource. His well researched and powerful speech pointed out how all of our activities impact the environment. Further, he identified a number of actions which we can all take to mitigate our impact.

Typical of this interest are the following initiatives:

- RC Comayagua, with support from D-7490, is planning a dam to bring water to some 70,000 people.
- RC San Jose, Costa Rica, has launched a water/sanitation project among native peoples in the country.
- D-4200, the RC of Chetumal is constructing 5500 gallon cisterns for the Mayan people of Central Mexico.
- D-4280, the RC of Medellin Nutibara plans to build an aqueduct and hold environmental education workshops to help conserve water.
- D-4250, the RC of Coban is supplying 1000 water filters to families in the Coban and Carcha areas.
- D-4400, the RC of Quito Norte is installing water purification facilities in ten area schools serving 1200 children.
- D-4280, the RC of Calarca Quindio is building 150 domestic sewage systems to decontaminate the Santo Domingo River basin. The project will benefit 900 people.
- D-4980 Uruguay reports that there is no shortage of water in this country but everyone should be educated about future needs

Zone 22 East - Z.C. Elizabeth M. (Bette) Miller

Several districts report a number of water/sanitation projects, including:

- D-6330 clubs are sending 123 Aqua Boxes to World Vision, another club is supporting a well project in Brazil.
- D-6380 has an impressive record of water and sanitation related projects:
 - Co-sponsored the “Thirsting to Serve” Water Conferences in Grand Rapids, Michigan in 2005, 2006 and 2007.
 - RC of Ann Arbor RC together with Rotaractors implemented a water project in Ecuador to bring safe water to a village of 70 families.
 - RC Clarkston, working in Haiti, is writing a grant for \$100,000 to provide wells.
 - RC of Birmingham has initiated a \$25,000 Matching Grant to provide wells in the Philippines (2007) and provided a toilet for a leper community in Nepal.

- RC of Troy has installed 45 BioSand filters in schools in Nepal and adopted a village of 22 families with improved wells, BioSand filters and toilets. They are working to make a model village that can be replicated (2007) and are initiating a Matching Grant to continue this project (2008).
 - In the USA and Canada, sponsored BioSand filter training for Rotarians John and Eileen Heasley who are certified by CAWST (and inventor Dr. David Manz) to conduct BioSand filter training. These workshops were held in 2005, 2006, 2007 and scheduled for February 2008.
 - In Thailand is working to improve drinking water for a school. Initiated by the GSE team in February, 2007 and is a Club-to Club project (\$600).
 - RC of Mt. Clemens has begun a BioSand Business (2006) in Mali and is now writing a \$25,000 Matching Grant to provide wells and BioSand filters.
 - RC of Rochester Hills has focused on local issues including the clean-up of the Clinton River watershed.
 - RC of Sterling Heights has \$10,000 pilot BioSand project in the Dominican Republic.
 - RCs of Richmond and Ann Arbor Briarwood are beginning a BioSand filter and health-related equipment project in Guatemala.
 - RC of Royal Oak is working with Poor Water for the World to bring BioSand filters to Honduras.
 - RC of Bloomfield Hills conducted a fundraiser to support water projects in the district and raised \$3,000 (2006).
 - Several clubs are supporting bio-sand projects in the Dominican Republic.
- D-7010 is helping to supply toilets in West Bengal, filtration plant in Guatemala, a well in Malawi, cisterns for schools in Philippines, a well in Sierra Leone, water and sewage system in Honduras and BioSand filters in the Dominican Republic.
 - D-7040, RC of Cornwall, partnering with 7070 and 7080 and Ryan's Well Foundation, are rehabilitating the water system in Kumasi, Ghana, comprising rainwater harvesting, storage, boreholes, well repairs, latrines, wash stations and training. They are also:
 - Providing water tanks to public schools in El Salvador for 70,000.
 - Providing water tanks for public schools in San Salvador.
 - Rejuvenating wells and refurbishing the town water system in Tamale, Ghana.

- D-7070 reports a variety of projects including:
 - Rainwater harvesting in Thailand;
 - Biosand filters in Cambodia;
 - Arsenic mitigation in West Bengal;
 - BioSand filters in the Dominican Republic;
 - Wells in Burkina Faso;
 - Several “sweat equity” trips to Tanzania, Malawi and Cambodia and working with 2500 school children in a very poor region of Zambia;
 - Five clubs cooperated on a project to drill 6 water holes to provide safe water to 350 orphans.
- D-7080 is leading a \$1.4 million “Water for Humanity” program to bring two wells and six km pipeline bringing water to 14,000 people in rural Ghana. Projects also include:
 - Well pump maintenance project for 20 villages in Bolivia;
 - A water filtration plant, using Zenon filters, in Concepcion, Bolivia;
 - The “Water for Humanity” program has brought relief to over 100,000 people in 43 locations in three countries.
- D-7090 has focused on Haiti. With support from TRF they are building 14 wells and three cisterns for rainwater harvesting. They also plan to build 300 latrines. In the Artibonite valley 150 wells have been installed bringing water to 200,000 Haitians.
- D-7820 is planning to bring water and sanitation to three primary schools, with 3000 students in Ogun State, Nigeria.

Zone 22 - West-Z.C. Del W. Paterson

Six districts in this zone report water initiatives of some kind:

- D-5020 - Under the leadership of the RC of Olympia several clubs are building pipelines to bring water to villages in Malawi. Other clubs are drilling wells in Uganda, piping water to a village in Guatemala and digging wells in Zambia.
- D-5040 is coordinating 28 clubs to focus on a comprehensive community development program—water, sanitation, community health and education, in Lego Tafo, Ethiopia. Clubs in this district are bringing water to Ndandini, a village in Kenya which has no potable water, no electricity, no health care and a very basic primary school.

- D-5060 includes the RC of Summerland which is the lead club supporting the Nakuru rainwater harvesting and community development program. Other major activities in this district include:
 - Support for a dam in Amreli India (D-3210);
 - A check dam in northern India;
 - Toilets in Mexico;
 - Wells and latrines in Ethiopia;
 - A water pipeline in Chile benefiting about 500,000 people.
- D-5360 has a very long reach internationally. Projects include:
 - Wells in Tanzania and Ghana;
 - Safe water and sanitation in Indonesia, Uganda, Peru and India;
 - Water conservation and reforestation in the Dominican Republic;
 - Water to a primary school in Burkina Faso;
 - Filters in Cambodia and Nicaragua. About 36,000 people will benefit from these activities for a cost of \$400,000.
- D-5550 is supplying a water treatment facility to Eldoret, Kenya, a water system to Venezuela, and water storage for a school in Guatemala.
- D-5010 is supplying 6 boreholes and pumps to Tanzania.

Zone 23 - Z.C. Arvind Phukan

This zone has a history of commitment to major international water/sanitation programs with heavy emphasis on East Africa. This emphasis is increasing under the current Zone Coordinator who is prepared to spend much of his time seeking out water projects in developing countries at no cost to Rotary. This is illustrated in the following examples:

- D-5020 - under the leadership of the RC of Olympia, ten clubs are committed to a \$500,000 program to bring safe water to a community in Malawi. Other clubs are:
 - Drilling wells in Uganda and Zambia;
 - Piping spring water to village in Guatemala;
 - A major upgrade to a municipal water system in Peru;

- RC of Tacoma is leading 30 clubs on a \$1 million program to develop springs, boreholes, reservoir, water points and latrines in peri-urban Addis Ababa.
- D-5030, the RC of University District of Seattle is sponsoring one of the major water projects in this zone—the Ethiopia Water Program—which is now entering its third phase. The success of this program, with its proven template, is encouraging other clubs to join this initiative. The RC of Tacoma #8 will sponsor the next phase. The program will bring safe water and sanitation and improved health and livelihood to 100 villages in northeastern Ethiopia. It also provides an excellent example of how Rotary clubs in two districts can cooperate effectively with World Vision Ethiopia, World Vision USA and The Hilton Foundation. Other projects in this District include:
 - The RC of Seattle is leading a 16+ club UNICEF project to rehabilitate water and sanitation systems in three communities and 30 schools in northern Pakistan destroyed by the earthquake in 2005. The project also includes latrines and health, hygiene and sanitation education.
 - Rehabilitation of many boreholes in northern Uganda, jointly with the RC of Gulu, at a cost of \$56,000.
- D-5080 - the RC of Spokane South is launching a project to build plants to produce clay pot filters in Kitale, Kenya.
- D-5100 reports over 37 clubs engaged in water/sanitation projects in El Salvador, Bali, Thailand, Honduras, Guatemala, Philippines, Tanzania and the Ukraine. The combination of one large program and several small projects demonstrates how Rotary is evolving into a major player on the water scene.
- D-5110 reports that the RC of Eugene Metropolitan, partnering with the RC of Hulingam, Kenya, built a defluoridation plant, trained the community and supplied bacteria filters. Other clubs are cooperating to rehabilitate a rainwater harvesting system, protect springs, train villagers, build reservoirs, install pump and extend pipelines to several villages in Uganda.

Zone 24 - Z.C. Fred A. Ford

No formal reports have been received from this zone during the year but individual Rotarians and members of WASRAG have submitted details of their projects.

- D-5240, the RC of Santa Barbara North is supporting the development of affordable, low-maintenance sanitation and filtration equipment by Global Water, a non-profit organization. A second project, to bring water to a village in Guatemala, comprises a protected well, pipeline, water tank and pumping station.
- D-5280, RC of Culver City is working to develop a forest and reclaim the desert in Israel.

- D-5340, under the leadership of Judge Robert Coates, is leading a Rotary-wide program to create awareness of global warming and climate change.

Zone 25 - Z.C. Ronald A. Goodsite

- D-5440 has continued its close involvement with Engineers Without Borders. The district worked with other districts to provide water equipment in Mexico. Other projects include:
 - RC of Fort Collins Breakfast provided irrigation in South Africa and boreholes in Ghana;
 - RC of Cheyenne provided a water well in Guatemala;
 - RC of Greeley provided water in India;
 - The RC of Teton Valley continues its involvement with the Trailblazer Foundation which drills wells and provides filters in Cambodia.

This district is currently working on a water project with District 5470 in Ecuador. The RC of Teton Valley joined with a local humanitarian group and the RC of Pursat (D-3350, Cambodia) to build wells and sanitary toilets at the school. Subsequently the project expanded to include pump wells, slow-sand filters and ring pit wells. This project will enable the village to become self-sustaining for water, food and economic activity.

- D-5450 has a very effective water/sanitation program bringing extensive benefits to the developing world. The key to this success is a strong District Water Task Force with representatives from clubs throughout the district. At a recent meeting clubs reported on initiatives to help the RC of Mzuzu resuscitate a water system in Malawi, implementing a low-tech water system in Uganda, supplying bio-sand filters to Christmas island, a watershed management program in Maharashtra, well projects in Burkina Faso and other projects in the Congo, Mexico, Tanzania, Kenya, Dominican Republic, Honduras, Togo, Bangladesh, Uganda. Another key to success of the water program in this district is the ability and interest of Rotarians to travel to developing countries facing water/sanitation problems.
- D-5490 completed a deep well (230 meters) to bring water to over 10,000 people in Kenya. This project may be extended to supply a further 2,500 people.
- D-5500 (RCs of Sierra Vista and Sierra Vista Sunrise) is undertaking a major water/sanitation initiative in West Africa in conjunction with D-9100 (RC Dapaong, Lome-Zenith, Niamey Croix-du-Sud, Agadez). One project, in Northern Togo, will support eight communities, another, in central Niger, four communities, and a third, in southern Niger 18 communities. Together these projects are bringing community water wells, sanitation

facilities, gardening supplies, and food production to the region. Nine districts in the USA, Canada and Australia are providing DDF and 22 clubs in D-5500, 19 in D-9640 (Australia) and 19 in other districts are contributing. This is an excellent example of how Rotary clubs and districts can combine to have a major impact on a region.

Zone 26 - Z.C. Kim A. Holland

This Zone Coordinator promotes Rotary programs very effectively. The *Plano Profile* featured an article on Global Safe Water which subsequently became an article on the RI website. The Zone Coordinator was the featured speaker at a “Council for World Affairs” on the world’s endangered children. Projects in this Zone include:

- D-5810 has played a major role, together with Districts 5020, 7620 and the RC of Mzuzu in the “Livingstonia Water Project” to bring water to 10 villages and 15,000 people in Malawi.
- D-5830, the RC of Pittsburg (TX) has teamed up with RC Port Isabel (D-5930) to rehabilitate an old dam in the mountains and pipe the water to a 26,000 gallon tank they are building. The water will then go through a slow-sand filter to supply the villagers in the barrio of Cristales, Colon, Honduras.
- D-5890 has just completed an integrated water/sanitation program in Western Kenya, comprising a well and hand pump, two latrines, and hygiene training at four schools. This active district is also working in Rwanda, Sierra Leone, Honduras and Malawi.
- D-5910 with the RC of Oklahoma City are in the third year of a project to drill wells in the Leon area of Nicaragua. The original plan called for 26 wells; the current goal is 35-40.
- D-6200 reports three water/sanitation projects:
 - Drilling boreholes and hand pumps with D-9210 Zimbabwe;
 - Improving the water supply at an orphanage in Harare with D-9210;
 - Supplying a water tower and tank for five rural communities in Mexico with D-4160.

Zone 27 - Z.C. Holly Callen

Many districts are working on ongoing project, but several new initiatives have been announced.

- D-5950 is waiting for matching grants for two large well and sanitation projects in Kenya; one is drilling a well to bring water to an orphanage for girls and to the community of 3000; the second will bring water to 10,000 in the Mathare slum, Nairobi.
- D-5970 reports a number of projects, primarily in Africa:
 - The RC of Cedar Falls, with the assistance of six other clubs is supporting a well-drilling project in Tanzania;
 - The RC of Dubuque is supporting a bore-well program, also in Tanzania;

- The RC of Mason City is working in Togo to repair 36 wells;
- The RC of Cedar Rapids West is seeking a water opportunity in Ghana.
- D-6270, RC of West Bend Noon is working with Engineers Without Borders on a major project in El Salvador. The project will contain the black and gray water that flows openly through the communities, keep the waste water out of the local stream, and direct that waste water to a natural treatment system located in the district of Nejapa. An analysis of the health of the community indicates the waste water running in the streets is a major health hazard. During the rainy season, the waste water and rain water combine to create a carpet of waste water that everyone in these communities must walk through. Diarrhia and infant mortality are the result.
- D-6440, RC of Evanston Lighthouse is supporting a project in Aba, Nigeria to bring safe water, install toilets and teach personal hygiene in 21 secondary schools. Over 45,000 students will benefit directly and over 250,000 people will benefit from improved hygiene practices. Other clubs are cooperating with the Peace Corps on a project in El Salvador and working on a well project in Kisumu, Kenya.

Zone 28 - Z.C. Lawrence Wright

No formal reports have been received from this zone. Comments below reflect information gathered from personal conversations and/or district newsletters.

The major activity in this zone has been the development and promotion of the Bio-Sand filter by the Rotary club of Grand Rapids (D-6290). Initially providing moulds for concrete filters, they later changed to plastic filters with the aid of a generous contribution of resin (for making the case of the filters) from Dow Chemical. These filters have gained wide acceptance in the Dominican Republic, Peru and El Salvador.

Many other clubs in this zone have helped to provide safe water through wells, boreholes and sanitation systems in India, Ecuador, Africa, and Latin America.

Zone 29 - Z.C. Jane A. Molloy

A number of districts report water/sanitation initiatives:

- D-5710, working on a variety of local water programs, including building a rain garden at an elementary school, cleaning the banks of the Missouri river, creating a program on water conservation for use in schools and community groups. This district is also supporting the Panama Water Project and a project in India.
- D-6040, RC Parkville, with the aid of a Matching Grant, is supporting the building of six wells in the Congo to provide safe water to 15,000 people.

- D-6110, RC of Tulsa continues to support a well-drilling project in Nicaragua which, to date, has completed over 100 wells with another 30 expected to be completed this Rotary year. A major challenge facing this project has been the intractability of the Nicaraguan government customs officials. This club has also launched the “Own a Well Program” which permits many clubs to support water projects for a modest investment. Typically the Rotary clubs of Claremore, Claremore Reveille, Owasso, Fayetteville, and Sand Springs are involved. Other clubs are supporting wells in Bolivia.
- D-6440 is carrying out a wide range of projects: drilling tube well, installing pump and storage tank to bring water to a village in Haryana, India. Other projects focus on drilling wells and supplying slow-sand filters to communities in El Salvador, Kenya and Haiti.
- D-6510, the RC of Swansea is working with the RC of Mzuzu (D-9100) to bring safe water to about 100,000 people in the community.
- D-6110, the RC of Tulsa continues to support a well-drilling project in Nicaragua which, to date, has completed over 100 wells with another 30 targeted for completion in this Rotary year. A major challenge facing this project has been the intractability of the Nicaraguan government customs officials.

Zone 30 - Z.C. Jerry W. Fox

Many districts in this zone are committed to water and sanitation projects in the developing world:

- D-6560 - some 35 clubs in this district are engaged in a variety of water projects:
 - A well in Malawi;
 - Pumps, pipelines, water tanks and irrigation in Mexico and El Salvador;
 - Water purifiers, health and hygiene training in Haiti;
 - Water systems in Bolivia;
 - Pedal pumps in Mexico;
 - Wells in Bangladesh;
 - Clean water for cooking El Salvador;
 - A holistic water-based project in Sierra Leone.
- D-6580 indicates that a high percentage of clubs are engaged in water projects, many working together in multi-club initiatives. Projects include building pipelines, installing cisterns and wells and a sanitary system, in Belize, Mexico, San Salvador, Myanmar, Brazil and Uganda; water to an orphanage in Uganda.
- D-6690 has two major projects underway in Mexico—building a small check dam, installing a drip chlorination system, building a gravity distribution system, constructing latrines for a village of about 900 people.

- D-6740 projects include tube wells in India, rainwater harvesting in India, wells in Puna, and water to an orphanage in Myanmar.
- D-6780 - 22 clubs are engaged in a variety of projects and countries including water pumps for Haiti, wells in Ghana, filtration in Guatemala and Thailand.
- D-6800 - several clubs are supporting wells and pumps with Living Water in Honduras in an area which historically has no safe potable water.

Zone 31 - Z.C. Carolyn Crowley-Meub

Under the leadership of PDG Anna Cargile, D-7190 has set a good example to the zone in its pursuit of water/sanitation projects. Eight clubs supported a program in Honduras. The RC of Glens Falls raised \$15,000 for a Haitian water project through a “Water Walk”. Another initiative of this club was a three-hour telethon to promote Rotary’s “Humanity in Motion”. These events led to the club being recognized by RI as a leader in raising the image of Rotary one of only 15 such awards in the Rotary world.

Other districts in this zone report the following:

- D-7150 is focusing on Haiti.
- D-7780, RCs of Portland and Freeport, together with 18 clubs in 3 districts have combined with Pure Water for the World (PWW) to provide BioSand filters to 1875 homes in Santa Barbara, Honduras, providing safe water to over 10,000 people.
- D-7850 is working with several NGOs in Ghana to eradicate guinea worm.
- D-7859 working on a pilot project in La Croix, Haiti.
- D-7870 is active on water projects in Honduras and Haiti.
- Clubs in four other districts are exploring possible water projects in Honduras.
- D-7950 produced a promotion spot for TV on the district’s water projects in Cambodia and Honduras.
- D-7980 is the driving force behind “Rotary/Team Uganda” an initiative to support a country-wide water/sanitation community development program in Uganda.

Zone 32 - Z.C. Dennis J. Miskewicz

Since the beginning of this Rotary year a number of new initiatives have been reported:

- D-7210 is supporting the RC of Pune (D-3130) to install water treatment facilities in over 40 schools in the region. In some cases the filter system will provide safe drinking water to the villages too. Other activities in this district include:

- A comprehensive water system for a clinic for AIDS patients in Thailand.
- Manufacturing and delivering filters to Choluteca, Honduras. To date 2300 filters have been delivered, and 445- hours of training and de-parasiting medication provided to 450 people, mostly children. A similar project is under way in El Salvador.
- D-7250 has launched a clean water project with D-7020 in Port-au-Prince Haiti.
- D-7260 is supporting safe water projects in Madagascar, Nigeria and Haiti.
- D-7390 has launched a new program “A Drop in the Bucket” to raise funds for water projects in Honduras. They “brand” ½ litre bottles of water with the district logo and water facts and sell them at various events. Each club has been asked to buy one case per member. It is estimated that the program will raise about \$500,000. This district is also providing a well-drilling service in south-east Ghana and other projects in Honduras, Peru, Nicaragua.
- D-7410 contributed to the Haiti Clean Water Project and supported a well project in Kenya.
- D-7490 has a very active international water/sanitation program and is exploring the possibility of building a dam to provide water to Comayagua, a city of 75,000 people. Other project for this district include:
 - RC of Ridgewood AM is installing wells for a home for boys in Las Cayes, Haiti;
 - RC of Park Ridge supplying artesian tank with fish for AIDS orphanage in Namibia;
 - RC of Bergen Highlands installing 150 latrines in Managua, Nicaragua.
- D-7500, along with Water for People is implementing water and sanitation projects to 40 communities in Guatemala.
- D-7640, the RC of Cherry Hill Breakfast completed a project to provide a water well in Afghanistan. They also plan to work with RC Port-au-Prince, Haiti to build a well for an orphanage

Zone 33 - Z.C. Doris M. Greene

The major program in this zone is the elimination of guinea worm and eradication of blindness caused by trachoma. The Guinea Worm Eradication Program (GWEP), orchestrated by the Carter Centre and Ghana Health Services, will provide wells, water purification systems, and distribution systems. People in northern Ghana have poor water quality and availability. They obtain water from surface water, local rivers and stream. Many of these sources are contaminated with human and animal waste. The program consists of repairing boreholes, digging shallow wells, drill borehole for communities, filter and purify, build latrines. The primary partner is the RC of Tamale.

Also in this zone D-7770 is working with Water Missions International and supporting many projects to bring safe water to Honduras, Nigeria and Peru.

Zone 34-Z.C. Robert Shelley III

Projects in this zone include:

- D-6900, specifically the RC of Atlanta is engaged in a three-year program in the Nyanza area of Kenya. The first phase is now complete and brought safe water to over 200,000 people. It created 100 wells and supported 1000 women. Phase II is a formal partnership between this club and World Vision. By the end of 2009 the project is expected to bring water, sanitation and hygiene to 600,000 people.
- D-6960 is planning to work with the Florida Water Association and Wisconsin Water for the World to build a water pumping system in Guatemala.
- D-6970 has partnered with Water for People to bring clean water from a mountain village, through a 14 km pipeline to two villages in Honduras. Other projects included rainwater harvesting, spring-fed storage and distribution, and bucket carbon filters in Guatemala, the Dominican Republic and Guyana.
- D-6990 describes three projects:
 - Helping the Fulnio Indians of Brazil buy tanks to store water delivered weekly by truck.
 - Supplying reverse osmosis filter on Grand Bahama to provide water/ice after hurricanes.
 - Working with the RC of Tulsa to build water wells in Nicaragua.
 - A “Showerhead Exchange Program” that offers the community new, water efficient showerheads to replace their old ones.

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In summary, Rotarians are responding to the call to focus on water, to “Make Dreams Real” and to “Share Rotary”. Much still remains however. Many clubs still are unable to identify and implement a water project—even with the assistance of other Rotary clubs in the district or after hearing requests from Rotarians in Africa, Asia and Latin America. We believe that the formation of the Water and Sanitation Rotarian Action group is providing the leverage and knowledge needed to address this humanitarian challenge more effectively.

Respectfully submitted,



Ron Denham, General Coordinator,
Water Resource Group, 2007-08