

Philippine Sanitation Alliance

6th Quarterly Report

January to March 2009

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I. Executive Summary

During the quarter, the United States Agency for International Development (USAID) Philippine Sanitation Alliance (PSA) project focused on developing septage management programs and promotions campaigns with Dumaguete, Naga and Zamboanga Cities. All three cities prepared for their baseline surveys, which will form the basis of the campaigns. The PSA conducted a successful national technology/finance workshop in Dumaguete City, with 92 participants from local government units (LGUs), water districts, the League of Cities of the Philippines, and other partners.

Several PSA partners constructed wastewater treatment facilities during the quarter. Gawad Kalinga (GK) built treatment facilities for two communities, three LGUs built facilities for their public markets with assistance from PSA partner Bremen Overseas Research and Development Assistance (BORDA). Three LGUs built wastewater treatment plants for their slaughterhouses and two private companies built plants for a slaughterhouse in Rizal and for a hospital in Iloilo.

PSA staff made presentations at three major national conferences: the 30th Philippine Association of Water Districts (PAWD) National Convention, the 2nd LCP National Convention of Cities, and Department of the Interior and Local Government (DILG) National Workshop on Water and Sanitation Public-Private Partnership (PPP). PSA Staff Dave Robbins was also a key resource person in Santa Rosa City's 2nd Water Summit, and Jay Tecson was interviewed for an article in a national magazine.

PSA strengthened its partnerships with the private sector including the Nestle-Malarayat Rural Bank-GK Village Project in Batangas and Everest Farms in Bulacan Province with C TRADE. Meetings were also held with WWF-Philippines, Conservation International-Philippines, and other government- and non-government organizations to discuss regular monitoring of biodiversity in Key Biodiversity Areas affected by PSA activities.

II. Results Achieved

Achievement of performance indicators and results are on track for the year, as well as the level of expenditures. Non-USAID funds leveraged have exceeded the target for the fiscal year, but the number of people with access to improved sanitation is still quite limited due to the need to first develop promotion campaigns before development of septage management programs.

Indicator Reporting

Summary of Results

Indicator	6th Qtr	Cumulative FY09	FY09 Target
1. Number of people in target areas with access to improved sanitation facilities as a result of USG assistance (disaggregated by gender)	Men 798 Women 918 Total 1,716	Men 2,461 Women 3,914 Total 6,375	300,000
2. Number of feasibility and special studies/plans prepared	0	0	4
3. Amount of non-USAID financing mobilized for sanitation projects and facilities	\$536,395	\$1,199,512	\$450,000
4. Number of people trained in environmental law, enforcement, public participation, and cleaner production policies, strategies, skills and techniques, disaggregated by gender	Men 140 Women 44 Total 184	Men 213 Women 96 Total 309	Men 120 Women 80 Total 200
5. Number of sanitation and hygiene promotion events conducted (WASH campaign)	0	0	3
6. Number of pollution and urban environment policies, laws, agreements or regulations implemented	0	0	1

Details of Results

- Several PSA partners constructed wastewater treatment facilities during the quarter. Gawad Kalinga constructed anaerobic baffled reactors in two communities, one in Quezon City and one in Quezon Province. Three local governments (Sorsogon, Manjuyod and Guihulngan) replicated the Muntinlupa market wastewater treatment systems with assistance from PSA partner Bremen Overseas Research and Development Assistance (BORDA). The funds leveraged by these three projects are included in number 3 below, but the number of people benefiting will be reported next

quarter. Three wastewater treatment plants were developed for slaughterhouses (Zamboanga City, Nagcarlan and VR Company in Rizal) and one for a hospital in Iloilo. The number of people benefiting from the Zamboanga City project will be reported next quarter.

Project	Men	Women	Total
GK (Sitio Pajo and Pagbilao)	102	178	280
Nagcarlan Slaughterhouse	71	0	71
VR Slaughterhouse	25	7	32
Iloilo Mission Hospital	600	733	1333
Total for Quarter 6	798	918	1716

2. No special studies/plans were finalized this quarter.

3.

Private Sector	\$219,205.08	Cash	\$528,451.84
<u>Public Sector</u>	\$317,190.20	<u>In Kind</u>	\$7,943.44
Total	\$536,395.28	Total	\$536,395.28

(See attached summary. Cost share sheets from each partner are available upon request.)

4.

People Trained	Men	Women	Total
Round Table Discussion with Concerned Stakeholders, Naga City-January 19, 2009	17	3	20
Small Round Table Discussion with Concerned Stakeholders, Zamboanga City-February 5, 2009	26	13	39
Appropriate Technologies and Financing Options for Wastewater Management National Workshop, Dumaguete City-March 4-6, 2009	97	28	125
Total for Quarter 6	140	44	184

5. No WASH days were conducted this quarter.

6. No new policies were developed this quarter.

III. Summary of Major Accomplishments

A. PSA Orients Stakeholders on the Proposed Metro Naga Septage Management Program

In coordination with the Metro Naga Water District and the Naga City LGU, PSA consultants conducted a round table discussion (RTD) on January 19, 2009 in Naga City to orient and consult with the stakeholders on the proposed septage management program (SMP) that will be spearheaded by the water district. A total of 19 participants attended the RTD. PSA gave an

overview of the need for SMP and its components, the proposed financing mechanisms, particularly collection of user fee, institutional arrangement and a general idea on how to construct and maintain a lagoon septage treatment plant. The project, estimated to cost P31.5 million consisting of the costs of land, construction and at least two vacuum trucks, will be funded from the water district's internal funds and borrowing from either LWUA or Land bank.

A two-day promotions workshop was held in Naga City on February 16 and 17, 2009 to start planning an intensive campaign that will promote septage management in Metro Naga. Fourteen participants from Naga City People's Council, Naga City Chamber of Commerce and Industry, Ateneo de Naga University, four municipalities that belong to the service area of the Metro Naga Water District, Naga City government and officers of the water district joined the workshop, which was facilitated by Andrea Echavez of the PSA. In the afternoon of February 17, Nene Narvaez presented the proposed cost recovery mechanisms of the septage management project to the water district officers and some board members.

B. Dumaguete Moves Forward on Septage Management

PSA staff Lisa Lumbao and Dave Robbins visited Dumaguete January 29-30 to facilitate implementation of the city's planned septage management program. Meetings with the General Manager of the water district, City Mayor and his staff were held to discuss options for collecting the septage (purchasing trucks or contracting the private sector) and overseeing the collection and operating the treatment facility (city or water district). The Dumaguete City Mayor's Office and City Water District have forged an agreement in concept to jointly manage the City's new septage management program. On March 25th and 26, Dave Robbins worked with the city engineers on the final aspects of the site development plans. The focus was to verify that the size and elevations of the system components are in agreement with the latest site plan prepared by City staff. Construction continues on the flood wall, and the final site leveling is scheduled for completion by the end of April.

Lisa Lumbao facilitated a half-day workshop on January 29 to begin developing a new promotions campaign to encourage cooperation with the desludging and payment of the user fee once it starts next year. Eighteen people from the city and provincial local government units, the water district, the academe, business and media attended the workshop where they identified the necessary skills for an effective promotions campaign. Prospective members were also identified by the group as a result of the skills matrix workshop based on the USAID 10-step promotion toolkit. A follow-up meeting was held on March 6 at Bethel Guesthouse with 12 additional participants, including local chapters of the Rotary Club, Lion's Club and cooperatives, thereby increasing their resource pool to a total of 28 people. A brief orientation on the promotions campaign was presented for the benefit of the new participants and a plan of

action was drafted based on the 10-step promotion toolkit. Next steps include sending letters to the participants' immediate superiors formally requesting their active involvement in the City's promotions campaign.

C. Zamboanga City Develops Promotions Campaign for Septage Management

PSA consultant Nene Narvaez and Andrea Echavez conducted a half-day workshop with the Promotions Team to introduce the toolkit and go through it up to Step 2. The team also held a round table discussion with the water district, private desludgers, city council members concerned with environment, representatives from the Chamber of Commerce, urban poor and other stakeholders to discuss the proposed septage management program. Nene, together with service providers (private desludgers), met with banks that may be tapped to finance expansion projects.

D. Sta. Rosa Water Summit

The 2nd Water Resources Summit, entitled "Managing Water Resources for Sustainability and Equity in the Santa Rosa Watershed" was held March 11, 2009 in Tagaytay. Dave Robbins, Philippine Sanitation Alliance's Senior Water and Sanitation Advisor, presented the topics of interceptor sewers and low-cost and appropriate wastewater treatment and disposal technology. The event was cosponsored by WWF and the Coca-Cola Company. A main objective of the conference was to raise awareness of local stakeholders on the need for sustainable landscape/urban planning, and the suite of sustainable solutions, technologies and innovative institutional arrangements in water and wastewater management. The summit brought together experts from different governmental and non-governmental sectors to present their experiences in sustainable technologies and to share solutions that are environmentally sound, economically viable and socially equitable. Approximately 180 people from local government units, national government agencies and industry were in attendance.

E. Water Districts Encouraged to Develop Septage Management Programs

The PSA encouraged hundreds of water district general managers, directors and staff to develop septage management programs during the 30th Philippine Association of Water District's National Convention on February 12, 2009. Septage management was a strong focus of the technical program, with sessions from Envirokonsult (private desludger for Manila Water) and the Dumaguete City Water District covering the institutional and technical aspects of septage management. PSA Project Manager Lisa Lumbao presented a new toolkit that allows planners to estimate the volume of septage to be collected, the number of vacuum trucks

needed, the costs of collection, the operation and maintenance costs of the treatment facility, and the total project costs and time it will take to achieve full cost recovery. Many water district representatives requested a copy of the toolkit, including from Bocaue (Bulacan), Kabacan (No. Cotabato), Kalibo, Laguna, Malaybalay, Orani (Bataan), Roxas, Tagaytay and Virac (Catanduanes).

F. Cities Share Best Practices and Technology Design Approaches in Managing Domestic Wastewater

PSA organized a technology-finance workshop for LGUs last March 4-6 at Bethel Guesthouse, Dumaguete City. Entitled “Appropriate Technologies and Financing Options for Wastewater Management,” the workshop aimed to assist LGUs in implementing the Clean Water Act. Ninety-two participants from local government units, water districts, and the League of Cities of the Philippines learned about technology and financing options for low-cost wastewater management. Resource speakers shared best practices and technology design approaches in managing domestic wastewater, including case studies and hands on estimates of project parameters for project design and financing, making cost estimates, and strategies for cost recovery. A highlight of the workshop was the site visits to the city’s public market treatment plant, the constructed wetlands at Mapa GK Village Tanjay, Bayawan and the Silliman University Medical Center’s wastewater treatment plant. The visits exposed participants to best wastewater management practices for public markets, hospitals and housing developments.

G. PSA Spreads Information through the League of Cities of the Philippines

The League of Cities of the Philippines, a PSA partner, held its 2nd LCP National Convention of Cities on February 17-19, 2009 in Mandaluyong City. It was attended by hundreds of participants from LCP’s 120 member cities and featured numerous booths. PSA shared information with the participants throughout the 18th and 19th at a booth shared with Envirokonsult, a partner company. PSA Project Manager Lisa Lumbao also made a presentation during the plenary session on the 19th. The presentation focused on opportunities for cities to improve their citizens’ health, the economy and the environment through sanitation projects. Many city representatives visited the booth and got copies of the PSA sanitation technology info kit and other resource materials.

H. PSA Participates in DILG’s National Workshop on Water and Sanitation PPP

Jay Tecson of the Philippine Sanitation Alliance participated as a resource for the national workshop on Public-Private Partnerships for LGU’s water, sanitation and hygiene programs, which was held on February 24-27, 2009 at the Local Government Academy (LGA) Training

Center in Los Baños, Laguna. The four-day workshop focused on finalizing the toolkit for LGUs for developing public-private partnerships on water, sanitation and hygiene programs using the new, enhanced P3 WSH Guide prepared by the Local Government Academy and funded by the United Nations Development Programme. LGA is the only national training institution in the Philippines mandated to coordinate and deliver training programs for local governments while aiming at promoting innovative and effective local governance. PPP topics include strategic planning, planning and organizing, information gathering, formulating objectives, scoping and defining parameters, establishing principles, partnership development, selection of options, financing, regulating PPPs, procurement, negotiating and contracting, managing PPPs, and conflict resolution.

I. Sharing the PSA's Experience in International Forums

PSA consultant Engineer Lito Santos served as the key resource person at the "Workshop on Sanitation Solutions for the Urban Poor in Pacific Island States" from January 12-14 in the Marshall Islands. The workshop was organized by the UN Economic and Social Commission for Asia and the Pacific (UNESCAP) to encourage the adaptation and replication of innovative practices in urban sanitation. Engineer Santos shared the experience of PSA partners in developing appropriate sanitation solutions, and led the group during the site visits. The participants were glad to learn about low-cost technologies, such as the anaerobic baffled reactor (ABR). Engineer Santos gave them a basic design and initial drawings for an Anaerobic Baffled Reactor Sewage Treatment Plant that they can implement as a decentralized treatment facility. Mr. Marcelo K. Peterson, the Mayor of Kolonia (Pohnpei), Mr. Ben Chutaro, the director of the Utilities Board, and Miss Beia Tiim from Kiribati all said that they will build an ABR in their respective areas.

PSA Project Manager Lisa Lumbao made a presentation on the PSA's experience in incorporating stakeholders into its projects during a training program for Afghani officials entitled "Building Alliances and Networks between Government and Partners." The training was organized by the Department of the Interior and Local Government Local Government Academy and supported by the UN Development Programme. The participants were elected and appointed officials from local and central government entities in Afghanistan.

J. PSA links biodiversity conservation with septage management, health and hygiene

PSA staff Lisa Lumbao and Emi Navalta met with World Wildlife Fund-Philippines' Vice President for Sustainable Technologies Mr. Ed Tongson and Conservation International (CI) Philippines' Biodiversity Unit Leader Ms. Rose Grace Ambal on January 26 and 28 to get inputs on how to collect monitoring data for Key Biodiversity Areas affected by PSA activities. KBAs in

PSA project sites include the following: Cagayan de Oro, Meycauayan, Santa Rosa, Zamboanga, Dumaguete, Naga, C TRADE partner farms in Batangas, Davao and Metro Cebu. During the meetings, key resources and informants (individuals and organizations) were recommended by WWF- and CI-Philippines, and government research institutions were identified as primary regular sources for baseline data. An initial matrix of government- and non-government organizations monitoring biodiversity in these sites has been developed by the PSA to facilitate data gathering for the project's short- and long-term research needs.

PSA Sites	Key Biodiversity Area	Trigger Species
Davao City	Davao Gulf	Cetaceans (humpback whales)
	Eastern part of Mindanao	Mangroves
Metro Cebu	Olongo	Sea birds
	Danajon Bank	Reef fishes, mangroves, corals
Zamboanga City	Sulu Archipelago	Sea turtles and reef fishes
Cagayan de Oro City	Bohol Sea	Cetaceans and whale sharks
	Macalajar-Gingoog-Butuan Bays	Sea turtles
C TRADE (biogas projects with piggeries that currently pollute Taal Lake)	Taal Volcano Protected Landscape	4 endemic restricted range trigger species: 1. <i>Hydrophis semperi</i> (sea snake); 2. <i>Gobiopterus stellatus</i> (fish); 3. <i>Rhinogobius flavoventris</i> (fish); 4. <i>Sardinella tawilis</i> (fish)
Sta. Rosa City	Laguna de Bay*	None identified yet, more research will be done

*Candidate KBA

The PSA aims to reduce the threats to biodiversity by (1) assisting private sector partners to build wastewater treatment facilities to reduce the amount of pollution entering water bodies that flow into KBAs; (2) assisting cities to develop city-wide action plans with short, medium and long term actions that, once fully implemented, will significantly reduce the amount of pollution entering water bodies that flow into KBAs; and (3) scaling up both private and public pilots to a nationwide scale through national associations to have a larger impact on biodiversity and health throughout the country.

K. Gawad Kalinga Develops Low-Cost Treatment Systems in Batangas

PSA Engineer Lito Santos went to Lipa, Batangas on Jan. 28, 2009 to visit the Nestle-Malarayat Rural Bank-GK Village Project and met with the GK staff handling the project. The site is about 1.8 hectares for which 50 houses and a building for meetings and a day care center are planned to be constructed. There are several houses already being constructed. Engineer Santos inspected the area and gave them an initial configuration of the ABR and gravel filter design system and the drainage lay-out. He will give them more detailed drawings soon. He also brought the GK architect to SM Lipa and showed him the treatment plant. In addition, Engineer Santos made a presentation to a group of GK engineers on Monday Feb. 2 regarding the ABR and other low-cost systems.

L. PSA Partner C TRADE Signs Biogas Deal With Everest Farms in Bulacan Province

Everest Farms, located in Bulacan Province, is developing a wastewater treatment system that will be designed and built by C TRADE, an alternative energy firm operating in the United States and the Philippines. The farm is currently discharging its pollution load from 7,000 hogs into a tributary of the Meycauayan River, which eventually makes its way down to Manila Bay. The river was named last year by the New York-based environmental watchdog Blacksmith Institute as one of the 30 most polluted areas in the world. C TRADE funds, designs and constructs turnkey biogas-to-energy projects for animal farm owners using the waste manure to produce cheap electricity and eliminate wastewater discharges. The project will not only serve the hog farm, but also a neighboring chicken farm of 200,000 layers. A field consultation was performed January 6, 2009 by C TRADE staff engineers and PSA Sr. Sanitation Advisor Dave Robbins to discuss the final details of the treatment system design.

M. Men's Magazine Features Sanitation

PSA senior project coordinator Jay Tecson was interviewed by For Him Magazine (FHM) for the article "Ten Commandments to Save the Earth" published in the March issue of the magazine. FHM Philippines is the largest read glossy magazine in the Philippines with an estimated readership of over 1.2 million readers. In the article, Engineer Tecson explained that untreated sewage is a major source of pollution, and advised the reading public to check and desludge their septic tanks regularly.

IV. Management and Finance

The project is on track in terms of overall management, reporting and expenditures. A new Administrative Assistant, Joy Sereno, was hired in January. A proposal to expand the project in scope, budget and time was submitted to USAID in late September, and was revised to incorporate additional suggestions from USAID and resubmitted on February 6.

V. Performance Objectives for Next Quarter

During the next quarter, AECOM will focus on the following major activities:

- Assist with planning and implementation of promotion campaign surveys and septage management programs in Dumaguete, Naga and Zamboanga.
- Prepare concept notes for Rotary International-USAID Partnership funding.
- Prepare to conduct a promotion toolkit training workshop with partners in July.
- Work with partners to develop pre-feasibility studies and operations and maintenance plans for their wastewater treatment facilities.