

Evaluation of the East Meets West Clean Water Program

(Rick McGowan, November 3, 2006)

Goal, Objective and Geographic Focus

- Goal – improve quality of life for families in targeted provinces and districts by provision of water (and eventually sanitation) services to improve community and family health conditions.
- Objective – Provide improved clean drinking water to the largest number of beneficiaries in the target areas to improve community health and standard of living.
- Geographic Focus – Quang Nam Province (with some work in Quang Tri and Hue)

Important Characteristics

- Main Benefit - Provided piped, treated water supply to participating communities.
- Very Participatory Approach – Consultation with PPC, DPC, CPC, hamlets, and families.
- Co-Financing Water Systems
 - 1) EMW provides majority of capital investment (for well, water tank, treatment, pipe).
 - 2) Community pays for house connections (including water meter, pipes and valves).
 - 3) Community in-kind labor contributions (digging and backfilling all pipe trenches).
 - 4) Local government provides land (for water tower), rights of way (for pipelines), and legal access to water sources.
- No Sanitation or Hygiene Promotion - this will be included in subsequent program activities.

Quantitative Accomplishments and Costs

- Construction of more than 85 piped water systems (plus a few non-piped systems) but cost data below is only for 70 piped systems completed as of June 2006.
 - 1) Technical Summary - Each system consists of drilled wells (2 per site for water security), water storage tank (21 or 50 m³ storage), water treatment (mechanical filtration and chlorination – in newer systems, and upgraded older systems), transmission and distribution pipelines, and metered house connections. Also 5 gravity systems and a few hand pumps.
 - 2) Size of Service Area – 172–3,400 water users, average of 1,275 water users per system.
 - 3) Number of Beneficiaries – about 90,000 as of June 2006.
 - 4) Average Cost per System - \$14,000. Newer larger schemes are \$20,000-30,000, plus 25% overhead plus the value of cash and in-kind contributions 20-25% (labor & house connections).
 - 5) Average Per Capita Cost (investment cost per beneficiary) is about \$12.50, including management overhead. In contrast, the estimated per capita cost for water supply facility per person in the NTPII budget is estimated to be US\$ 30 (ref: Appraisal Report for NTP-2).
 - 6) Average Water Tariff – VND 1,400 per cubic meter averaged for all systems built in the last ten years. Newer systems will cost more as the price of equipment and materials rises.
 - 7) Other - Upgrading older systems, provided training to water system managers and 8 EMW program staff, and promoting private sector management of water systems.