



INTERNATIONAL WATERS RESULTS NOTES

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Livestock Waste Management Project

GEFID#: 2138, GEF Agency Project ID#: P079610, Project Status: Active



1. Standing pig population covered by farms having adopted the project's livestock waste management systems has reached 726,000 compared to a target of 417,000.
2. Reduction of livestock-induced, land-based pollution flowing into the South China Sea
3. Replication strategies have been drafted and are being finalized for each beneficiary country at a provincial or district level.

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PROJECT OBJECTIVE

The overall project development objective is to reduce the major negative environmental and health impacts of rapidly increasing concentrated livestock production on the open waters and thus on the people of East Asia. Its global environment objective is to reduce livestock-induced, land-based pollution and environmental degradation of the South China Sea.

RESULTS: PROCESS

INDICATOR#1 Spatial distribution plans for livestock production and nutrient management plans for livestock waste developed and implemented [Target: Spatial distribution and nutrient management plans completed/implemented]

Results to date: China: completed in Guangdong; Thailand: completed in Ratchaburi; Vietnam: completed in Thuong Tin District

INDICATOR#2 National (Guangdong in China) SPP implementing improved (leve 1 and 2) livestock waste management practices [Target: 50% in China (Guangdong); 40% in Thailand; and 50% in Vietnam]

Results to date: China 70%; Thailand 40%; Vietnam 40%

INDICATOR#3 Replication strategy is developed by each country [Target: Replication strategies outlined, drafted, implemented and finalized by end of years 1-4 and by project completion respectively]

Results to date: Implemented in China, Thailand and Vietnam; as a result, (i) preparation of a follow-up \$100 million IBRD lending operation for agricultural non-point source pollution reduction project in China has been approved by both the Bank and Chinese government and (ii) two CDM livestock waste management projects were prepared and in operation in Thailand in 2008 and 2009 respectively

INDICATOR#4 Decision support tools and related training packages delivered by RFO [Target: 6 tools and related training packages]

Results to date: Spatial Planning completed, CoSiMo about 90% completed and STRAW not completed; training package for Spatial Planning delivered and trainings organized for Thailand only; a model and training package for STRAW and CoSiMo respectively completed; translation into three languages in progress; the third CoSiMo meetings in three countries (90 participants in total)

INDICATOR#5 M & E system in place and number of periodic evaluations of project outputs and impacts carried out. [Target: 2 in each year and in each country]

Results to date: China: 16 farms involved and 22 reports prepared; Thailand 11 performed; 4 more pending; Vietnam 7 farms and 1 village involved and 8 reports prepared

RESULTS: STRESS REDUCTION

INDICATOR#1 Number of standing pig population covered by farms adopting level 2 livestock waste management systems with project support. [Target: 92,000 for Guangdong, China; 203,000 for Thailand; and 122,000 for Vietnam]

Results to date: About 330,000 in China; 296,000 in Thailand; and about 100,000 in Vietnam

INDICATOR#2 Reduced livestock production related emissions of pollutants in surface water systems in the project areas [Target: not specified, based on M&E]

Results to date: Reduction of 3,515 ton of N, 1,719 ton of P, 56,676 ton of COD and 25,080 ton of BOD;

INDICATOR#3 Reduction of nitrogen, phosphorus, BOD, COD and E. Coli bacteria discharge on demonstration sites once the LWM systems are established [Target: meet national standard for China and Thailand, reduced by 80% for Vietnam]

Results to date: It was confirmed by all three countries that the respective national discharge standard has been met but no actual discharge from participating farms occurred;

INDICATOR#4 Overall human health risk posed by pathogens, antibiotics and other residues at discharge level reduced [Target: 50%]

Results to date: It was generally agreed by all three participating countries that the overall human health risk has been much reduced. However, no specific percentage has been collected and estimated which is very difficult to do.

RESULTS: WATER RESOURCE AND ENVIRONMENTAL STATUS

INDICATOR#1 (as in your results framework) [Please indicate the target in brackets]
Describe in one sentence the results in this area. Please quantify the results whenever possible.

INDICATOR#2 (as in your results framework) [Please indicate the target in brackets]
Describe in one sentence the results in this area. Please quantify the results whenever possible.

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