



INTERNATIONAL WATERS RESULTS NOTES

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China Ningbo Water and Environment Project

GEFID#: 2750, GEF Agency Project ID# P090336, Project Status: Active



1. Restored wetlands
2. Improved biodiversity and attracted a large number of migratory and resident bird species
3. Construction of Wetland Center

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PROJECT OBJECTIVE

The project's development objectives are to reduce land-based pollution along the Cixi coast and the East China Sea, promote the replication of innovative low cost waste water treatment techniques and encourage coastal zone conservation.

RESULTS: PROCESS

INDICATOR#1 [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.

RESULTS: STRESS REDUCTION

INDICATOR#1 Reduction of BOD and nutrients for two wastewater treatment plants and nitrogen removal in the Wetland Center [Target: Both WWTPs: BOD: 10,000 T Nitrogen: 2,000 T; Phosphorous: 200 of which North Constructed Wetland BOD: 300 T Nitrogen; 400 T; Phosphorous: 25; Enhanced Wetland plot A1: T-Nitrogen: 175]

Results to date: Not known. The efficiency of treatment in the wetlands is not known because testing has not yet been completed for the constructed wetland in Plot 1A. Testing has not yet begun for the Northern WWTP constructed wetland.

INDICATOR#2 Constructed Wetland completed and WWTP meets Class 1A discharge standards [Targets: 2008: Design completed; 2009: Wetland treatment system constructed; 2010: Compliance with Class 1A standards]

Results to date: Wetland construction for Plot 1A has been completed; Constructed wetland at the Northern WWTP has been completed but not yet operating. Testing of constructed wetland in Plot 1A has started but not for the Northern WWTP.

INDICATOR#3 Wetland center Visitor Center completed; wetland areas restored and center is financially sustainable. [Target: Revenues from user fees and contributions sufficient to meet operational costs]

Results to date: Visitor Center is only partially completed due to inadequate counterpart funds earlier in the year. Wetlands have been restored but not tested; Increasing sedimentation outside the inner dyke poses a potential risk to preservation of the wetlands.

INDICATOR#4 Increased abundance of benthic fauna in tidal wetlands and mudflats [25% increase in benthic fauna productivity over baseline]

Results to date: Not possible to measure in percentage terms but appreciable increase in fauna is clear.

INDICATOR#5 Increased bird abundance and species diversity (25% increase in bird sightings and number of species over baseline to be established)

Results to date: Target achieved.

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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