

**Project Name:**

Shanghai Urban Environment Project,  
Design, Review and Advisory Services

**Client:**

Shanghai Water and Environment  
Construction Company (SWECC)  
Binnie Black & Veatch, Hong Kong

**Project Duration:**

2001 - 2002

**Project Cost:**

\$820,000



**Senior Professional Staff:** Mr. R. Prentice (Project Engineer) Dr. S. Zhou (Project Engineer)

As wastewater treatment specialists, we were basically working on two key wastewater related elements in this project :

1. Reviewing options for SSPIII, and;
2. Updating the Wastewater Master Plan.

SSPIII project service area is consisting of follow three blocks:

- Block A - Conveyance of wastewater from Area A to Zhu Yuan through SSPI system;
- Block B - Treatment of Area B wastewater in a new secondary treatment plant at Minxing Lu with discharge to the Huangpu, and;
- Block C - Collection and discharge of wastewater from area C independently at Bailonggang.



The World Bank Mission was for a review of the Block B proposal to see if all wastewater from Block B could also be conveyed to the Zhu Yuan proposed wastewater treatment plant – in SSPI conveyor using spare capacity - to be treated to the same level as was being proposed for the proposed Minxing Lu secondary wastewater treatment plant. Several sub-options were compared in terms of feasibility, cost and environmental issues. Based on the review of options for SSPIII, we compared the 'selected' Minxing Lu site to other possible sites to select and recommend which one is legitimately the best site in terms of both its surroundings on land and river dispersion characteristics.

In addition to the site selection, the tasks to be accomplished in this part of the project also include:

1. Development of evaluation protocols
2. An evaluation and description of spare capacity of SSPI as it relates to conveyance of flows from

- Areas A and B
3. A review and recommendations on 'efficiencies' that should be implemented in the collection/link pipe system to get more wastewater into SSPI & SSPII
  4. Hydraulic modeling as noted in the Aide Memoire No. 1.

