

# Sewerage System Improvement (Vietnam)



Flooding in Ho Chi Minh City (HCMC)



Canal water flows backward through street inlet

## Main Issues

- **Flood-prone land**  
~ Flat low-lying area below sea level similar to Osaka City
- **Insufficient capacity of discharge facilities**  
~ Constructed during French colonial rule in the 1870s

### FY2011

#### ● Study on Urban Flood Control in HCMC

As the pre-feasibility study (pre-FS) was adopted by MLIT\*, the baseline survey of sewerage project focusing of urban flood control in HCMC was conducted by public-private sectors of Osaka City.

\*Ministry of Land, Infrastructure, Transport and Tourism



Meeting with Ho Chi Minh City government officials (July 2011)

### FY2012

#### ● Feasibility study (FS) on urban flood control project using a Public-Private Partnership (PPP) method

Using the pre-FS study adopted by MLIT\*, we developed a model project for urban flood control to cope with the vulnerability of urban drainage systems in major cities in Vietnam and also examining the feasibility of applying a PPP method for implementation of an urban flood control project.



Toxic gas Check (July 2013)

### FY2013~FY2015

#### ● Project for capacity improvement of urban drainage management in Ho Chi Minh City, Vietnam

Osaka City and Urban Infrastructure Technology Center Foundation (UITec) have started technical exchange on O&M of urban drainage facilities and has been improving safety management of O&M work in HCMC utilizing JICA's Partnership Program.

### FY2014~FY2015

#### ● Program for Trenchless Pipeline Rehabilitation Technology in Socialist Republic of Vietnam

The joint pilot project of sewer rehabilitation in HCMC will be implemented by Sekisui Chemical Co.,Ltd. and UITec as the JICA "Collaboration Program with the Private Sector for Disseminating Japanese Technologies".



Sewer rehabilitation (image)