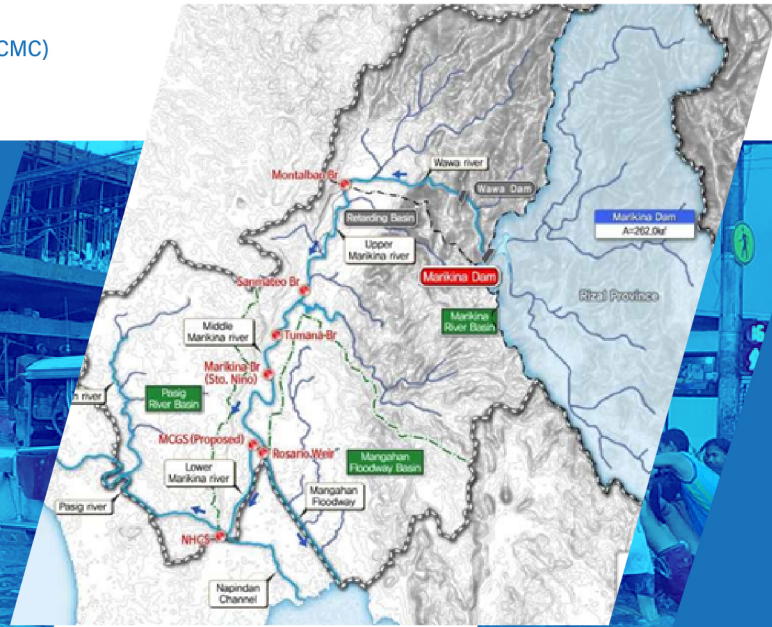




DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
(DPWH)  
UNIFIED PROJECT MANAGEMENT OFFICE -  
FLOOD CONTROL MANAGEMENT CLUSTER (UPMO-FCMC)

# PASIG-MARIKINA RIVER BASIN FLOOD MANAGEMENT PROJECT



## THE PROBLEM



### Typhoon Ondoy (2009)

- Heavy flooding in Metro Manila approximating a 100-year rainfall event.
- 921 lives lost.
- About \$1.15 billion in damages (P55.4 billion pesos in current exchange rate).



### Typhoon Ulysses (2020)

- 73 lives lost.
- About P12.9 billion in damages. Damage to infrastructure is estimated at P8.69 billion, while damage to crops was about P4.21 billion.

## THE SOLUTION

### METRO MANILA FLOOD MANAGEMENT MASTER PLAN



### STRUCTURAL MEASURES

- River Systems (Including Marikina Dam and Retarding Basin)
- Flood Plains
- Urban Drainage



### NON STRUCTURAL MEASURES

- Flooding Forecasting
- Early Warning Systems
- Flood Risk Management



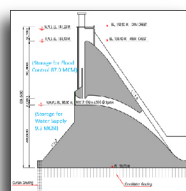
### INSTITUTION IMPROVEMENT



## PART OF THE SOLUTION

The Project goal is to reduce peak river flows from entering the Greater Metro Manila Area during typhoons and other extreme rainfall events with 100-year return period, and to convey the remaining floods safely through Metro Manila without causing any major flooding.

### The Pasig-Marikina River Basin Flood Management Project is composed of the following structures:

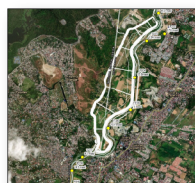


#### UPPER MARIKINA DAM

Height: 89.5 meters  
Volume : 87.0 million cubic meters  
Multi-purpose dam  
Primary use: Flood management  
Secondary use: water supply, as one of several sources for Metro Manila.

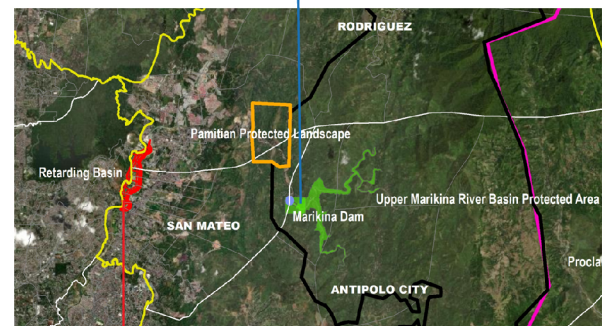
#### RETARDING BASIN

Volume: 12 million cubic meters  
Area: 144 hectares  
Length: 3.5 kilometers (from inlet and outlet gates); length of the dike or the wall is approximately 8 kilometers



### PROJECT LOCATION

The dam was proposed to be constructed at about four (4) km upstream from the existing Wawa Dam in Montalban Gorge.



#### RETARDING BASIN

The Retarding Basin is bordered by barangays in San Mateo, Rodriguez, and Quezon City.

### PROJECT SCHEDULE



Feasibility Study and Detailed Design: 2017 - present



Tentative Construction: 2022 - 2026

## QUESTIONS? COMMENTS? CONTACT US