



**PROJECT:** FACTORY ROAD STORMWATER PLAN  
**LOCATION:** CHAGUANAS, TRINIDAD  
**OWNER:** EMBD (Estate Management & Business Development Company)  
**CLIENT:** EMBD (Estate Management & Business Development Company)  
**SECTOR:** INFRASTRUCTURE  
**PROJECT VALUE:** TT\$12m  
**PROJECT COMPLETION:** Nov 2012

**Project Description**

This project entailed the audit and design review of the stormwater management system proposed for a new 58.8ha housing development located in Chaguanas. The system was designed to incorporate runoff from a proposed housing development and that of an existing.

The perennial flooding problem experienced by many homeowners throughout the country lead to the Client requesting an independent verification of the design calculations for the stormwater channels, detention pond system and catchment performance during rainfall events.

**Our role**

The overall scope of our responsibility under this project was as follows:

- Review the assumptions made in the development of the design philosophy.
- Carry out an independent analysis of the catchments to determine the adequacy of the original design
- Model the performance of the catchment for specified rainfall events
- Work with statutory guidelines and data (Ministry of Works, Water Resources Agency) for ratification of design parameters
- Make recommendations to enhance the original design approach
- Produce a technical report on the adequacy of the entire system under a 1:25 storm event.

