

Project Name

Development of Stormwater Management Plan

Client

Merck & Company, Inc

Services Provided

- ✍ Evaluated Existing Stormwater System
- ✍ Developed Upgraded Stormwater System
- ✍ Developed Hydrographs, Pollutographs and Loadographs
- ✍ Assisted in Permit Negotiation

Project Description

Merck & Company, Inc. operates a pharmaceutical facility encompassing approximately 200 acres in Rahway, Middlesex County, New Jersey. SAI was retained to perform an evaluation of the existing stormwater program at the Rahway facility, and to develop an upgraded stormwater management program that would comply with applicable federal, state, and local requirements and regulations.

Approach

SAI performed stormwater sampling at the Facility, and evaluated the Facility's NJPDES permit application recommending revisions to the application to achieve compliance with stormwater rules and regulations. In addition, SAI characterized the stormwater discharges originating from the Site by generating hydrographs, pollutographs and loadographs, and by using a hypothetical example to calculate a "first flush" concentration from sampling data obtained during the various field investigation activities. Finally, SAI developed a conceptual plan for the characterization of the stormwater from the Facility, and specified the approach for hydrological and chemical characterization of the drainage basins and discharges.

