



**Project Name:** Industrial Wastewater

**Client:** City of Lancaster

**Agency:** County Sanitation Districts of Los Angeles County

**Location:** City of Lancaster, CA

**Chemicals of Concern:** Metals associated with paint, dirt, oil and grease

## Project Goals

The purpose of this project was to size, design, and acquire permitting for a carwash area for the City of Lancaster's maintenance department fleet.

## Waterstone's Role

Waterstone reviewed an inventory of the city's vehicle and equipment inventory and conducted an assessment to of the maintenance fleet operations to determine the appropriate size and number of wash bays , to understand the chemical characteristics of the effluent, and to estimate discharge flow. Waterstone also researched product Material Safety Data Sheets (MSDS's), purchase records, waste manifests, and conducted employee and management personnel interviews to determine chemical input and conducted field studies to collect wash water samples to design options for the effluent treatment system.

## Project Challenges and Successes

Waterstone presented several design options and associated costs to the city for approval. The selected design included a conveniently located, simple three-bay wash area, procedures to reduce influent waste, and an appropriately sized clarifier which allowed for permit variance from the Los Angeles County Sanitation District. Waterstone's unique design easily handled the city's varied fleet of passenger vehicles, dump trucks, street sweepers, earth moving equipment, and painting trucks.