

GREEN FOUNDRY CASE STUDIES

WATER

Stormwater Outfall Redesign



BEFORE

Description

This project redesigned the stormwater outfall located in the northwest corner of the facility. Before the redesign, the outfall was composed of concrete, rock, and weeds. A trench was installed to direct rainfall to a retention ditch that flows to a newly sodded area, before releasing to the outfall. Clean top soil and sod were placed in the area to naturally filter the heavy metals and solids from the stormwater runoff. By directing the rainfall through the trench, allowing settling time for solids in the ditch and sod area, a natural filtration system was created to entrap and filter heavy metals.

Environmental Benefits

Improved stormwater quality by naturally filtering the heavy metals and solids from the stormwater runoff.

Cost & Savings

Approximately \$5,500 was saved by this redesign.

Other Benefits

Improved the aesthetics of the area.



AFTER

Applicability

Any facility with stormwater flows can consider whether slowing the flow through a vegetative area will improve water quality at the final discharge point. However, care should be taken to maintain the area by periodically removing filtered solids for proper disposal.

For more information contact: **Juliette Garesché**,
Senior Environmental Health & Safety Technical Director,
at jgareshe@afsinc.org or **847.824.0181 ext. 224**.