

FABCO INDUSTRIES, Inc  
STORMBASIN FILTER CARTRIDGE TEST REPORT:  
CLEAN FLOW RATE  
OILS AND GREASE EFFECTIVENESS



Prepared by:

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### **Executive Summary**

To confirm flow rates and treatment capabilities of its' StormBasin storm water filtering system, Fabco Industries, a manufacturer located on Long Island, NY, designed and constructed a High-Flow hydraulic test fixture. The Test fixtures concept was based on other test fixtures utilized by various state and federal certification agencies during there own testing of competitive catch basin insert filters. The design goals of the Fabco test fixture called for accurate, continuous flow rates from 0 to approximately 400 gpm and the ability to inject precise concentrations of specified pollutants in order to best simulate actual storm water concentrations and homogeneity.

The report confirms that the test fixture was able to meet the required specifications in terms of flow rate and pollutant concentrations. The standard test cartridge was able to achieve a continuous clean flow rate of 100 gpm (+/- 15%). And, finally, oil and grease contamination contained in the simulated flow were reduced by greater than 90% at flow rates in excess of 80 gpm.

Technical support, sample containers and analysis provided by:  
EcoTest Laboratories, Inc  
377 Sheffield Ave  
North Babylon, NY 11703  
EPA Lab code NY 00038; NY lab ID 10320

Test 1: 254319.02

Syn Storm water containing oils and grease (automotive fluids)  
Flow rate 80 gpm

Analytical Parameters	Units	Before sample	After Sample*	% Change	Lab reporting limit	EPA method
Oil and Grease	mg/L	64	< 5	92.2	6	413.1

Test 2: 254363.01

Syn Storm water containing oils and grease (automotive fluids)  
Flow rate 100 gpm

Analytical Parameters	Units	Before sample	After Sample	% Change	Lab reporting limit	EPA method
Oil and Grease	mg/L	55	< 5	90.9	6	413.1