

Annual Used Oil Recycling Forum
December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”

Bob Zetterberg, Integrated Waste/NPDES Coordinator

City of Rancho Cucamonga

10500 Civic Center Drive

Rancho Cucamonga, CA 91730

909-477-2740 extension 4060

bzetterb@ci.rancho-cucamonga.ca.us

Annual Used Oil Recycling Forum December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”



Annual Used Oil Recycling Forum December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”



Annual Used Oil Recycling Forum December 6, 2002

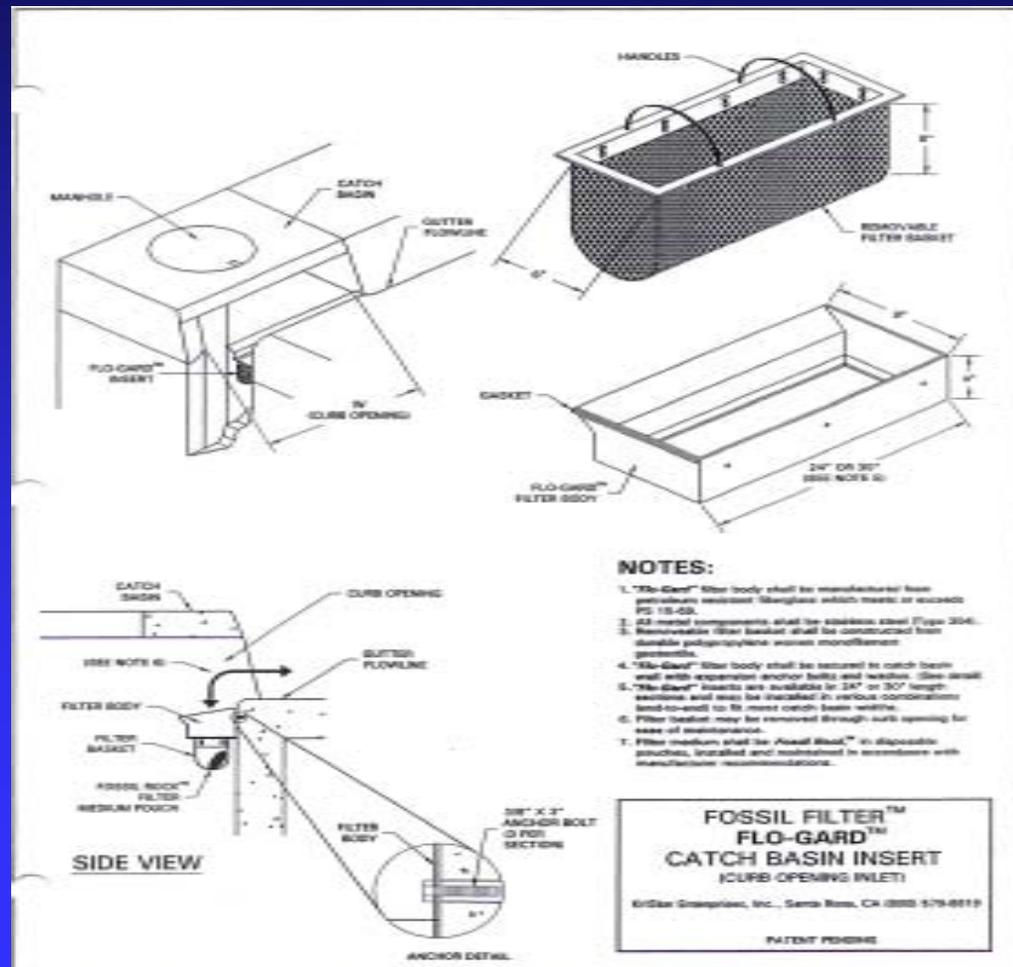
Track 3: “Oil & Grease Removal from Stormwaters”



FEB 12 2001

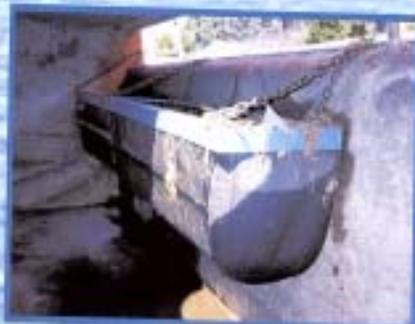
Annual Used Oil Recycling Forum December 6, 2002

Track 3: "Oil & Grease Removal from Stormwaters"





UNITED STORM WATER, Inc.
Protecting Our Water Resources



Trash and debris accumulated in storm drain systems will be swept out into the bay if the basins are not maintained. Installing the DrainPac[®] ensures filtration of run-off in the storm drain inlet. Water that flows through the liner is reduced to non-detectable discharge of heavy metals and petroleum hydrocarbons. Retained solids are ready for disposal.



All DrainPac[®] liners can be configured to customer specifications without major retrofitting on the existing storm drain system.



The liner of the DrainPac[®] varies according to the identified source of pollution. For trash and debris a mesh screen traps the material and prevents accumulation in the inlet structure. A DrainPac[®] for curb side inlets can be installed and cleaned without confined space procedures.

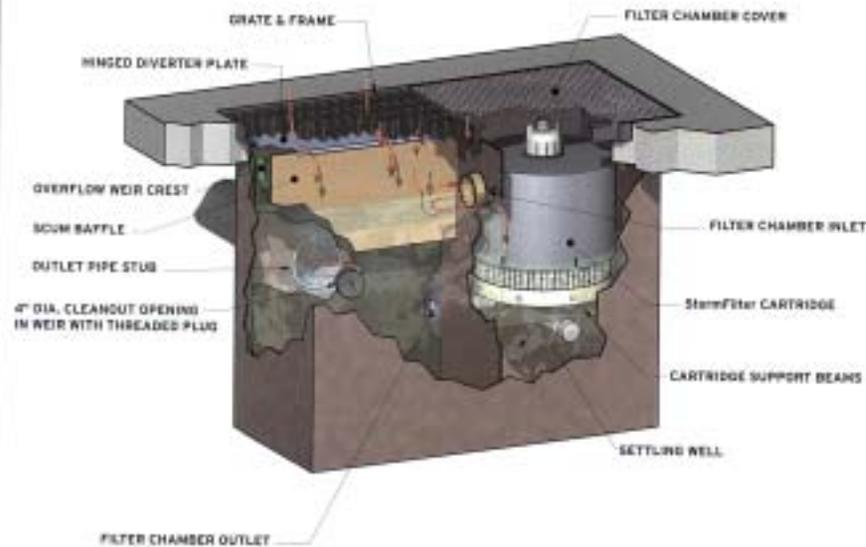
Retained sediments are ready for disposal, eliminating further handling. Captured sediments from the liner may be disposed into landfills in compliance with disposal site permits. Solidification of storm drain sludges is not required.





CATCHBASIN StormFilter™

CATCHBASIN



Also available in concrete.

Annual Used Oil Recycling Forum December 6, 2002

Track 3: "Oil & Grease Removal from Stormwaters"



Courtesy of Low Impact Development Center

In the examples provided, water is typically directed to landscaped areas where runoff is intercepted. The designs include sloping of both the paved areas and the landscaped areas to follow normal drainage patterns.



Courtesy of Bruce Ferguson

Annual Used Oil Recycling Forum December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”

This is an example of a parking lot retrofit. Water is first directed into a landscaped area. When flows exceed the capacity of the soils, water flows into the storm drain. By diverting a portion of the first flows the design reduces demands on the storm drain system.



Annual Used Oil Recycling Forum December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”



Annual Used Oil Recycling Forum

December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”

GROUNDWATER PROTECTION

Any structural infiltration BMPs shall meet the following minimum requirements:

1. Use of structural infiltration treatment BMPs shall not cause or contribute to an exceedance of groundwater water quality objectives.
2. Source control and pollution prevention control BMPs shall be implemented to protect groundwater quality.
3. Structural infiltration treatment BMPs shall not be used in industrial or high vehicular traffic areas (25,000 or greater average daily traffic).
4. Structural infiltration treatment BMPs shall be located at least 100 feet horizontally from any water supply wells.
5. The vertical distance from the bottom of any infiltration structural treatment BMP to the historic high groundwater mark shall be at least 10 feet.
6. Structural infiltration treatment BMPs shall not cause a nuisance or pollution as defined in Water Code Section 13050.

Annual Used Oil Recycling Forum

December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”

Information from:

U.S. Enviro-Net Services – www.usenvironet.com

Storm Drain Filters – www.stormdrainfilters.com

CDS Technologies – www.cdstech.com

United Storm Water, Inc. – 1-877-71-STORM

Rocky Mountain Institute – www.rmi.org

Inland Empire Utilities Agency – www.ieua.org

State Regional Water Quality Control Board – www.swrcb.ca.gov

Annual Used Oil Recycling Forum
December 6, 2002

Track 3: “Oil & Grease Removal from Stormwaters”