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Specialty Maintenance & Sales

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*Serving School Districts,
Cities and Municipalities
throughout Southern California*

Service Available In:

- Los Angeles County
- San Bernardino
- Orange County
- Inland Empire

Fossil Filters Inserts

Storm Drain Insert Installation and Service

Why Fossil Filters?

The fossil filter term was coined about 20 years ago by the founders of Kristar Enterprises and has become generic term for catch basin. A fossil filter is a static water filtration system that uses eco-friendly filtering materials to remove oil, hydrocarbons and toxins from the water. It is installed in any size or shape, under the grate openings of new or existing drainage. As storm water enters the drain inlet, the water passes through a replaceable filter material that captures petroleum-based hydrocarbons. Fossil filters should not inhibit water flow during high volume flows when drain capacity is critical. Fossil Filter inserts seemingly are cheapest way to meet water quality standards. Filter will need to be replaced every so often to ensure the filtration system is working correctly. Drains must be clear and working before installation. Many cities and counties in California are requiring fossil filter installation into storm drains to catch harmful solid waste, oil, metals and hydrocarbons while protecting the environment.

Storm Drains or Catch Basins

Storm drains for streets, sidewalks, roads and parking lots are common in every city in the USA. Storm drains direct water run off from the ground surface and channels the water flow into underground drainage systems located throughout the our cities big and small.

Most storm drainage systems eventually empty into lakes, rivers, streams, collectors, oceans or other bodies of water including processing plants. Solid waste is usually tainted/contaminated toxic materials collected on the surface, such as soap, metals, hydrocarbons, oil sheen, oil, fuel, and antifreeze are carried with the drainage water to the percolation/sanitation water cleaning plants or storage.

Enacted Federal and State environmental laws, local agencies (cities, counties and states) are required to apply for storm water permits. These local government agencies must demonstrate that they have a **Storm Water Pollution Prevention Plan (SWPPP)** incorporating the **Best Available Technology (BAT)** and **Best Management Practices (BMPs)**, outlined by the Federal EPA Water Quality Standards, to prevent water pollution caused by urban runoff.

Many cities and counties are implementing water strategies that include inspection, citation and required installation of equipment into storm drains to catch harmful solid waste, oil, metals and hydrocarbons through water filtration systems called **Fossil Filters and more appropriately catch basin filter inserts.**

Complete catch basin packages built by John Commercial Services include:

- Site Inspection and consultation (local)
- Custom fit and design
- Stainless Steel Fossil Filter Insert Frame
- Expanded Stainless Steel debris catch
- Filtration Media designed for effectiveness
- Certificate of Compliance
- Installation and Service

What does a Fossil Filter Look Like? Fossil filters come in many designs but the typical storm drain insert might look like this made by Kristar:



Plastic Netting – poor flow & does not last

Custom catch basin inserts must fit properly if they are to function as required. Why purchase a custom fit catch basin insert? The major reason is fit, water flow and filtration. Most concrete storm drain openings are old or not accurately formed and simply out of square at many levels of the drain itself. Many older storm drains are not uniform, so the off shelf fossil frame must be altered or retro fitted to fit: costing you much more money.

John Commercial Services catch basin filters take up to 7-10 days to fabricate. As you might expect correct measurements of your drain opening are critical.

Adsorption/Sorbent Material? Why is this important?

Adsorption, the binding of molecules or particles to a surface, must be distinguished from *absorption*, the filling of pores in a solid. Adsorption holds back particles in the media.

EPA approved sorbent filter media only used.

Spilled hydrocarbons are adsorbed upon contact, and does not re-release when it is retrieved. The solidification process is non-chemical in nature allowing the US EPA to classify products like Rubberizer® as an approved sorbent.

John Commercial Services Sells OEM

Replacement Fossil Filters - Call 714.401.7742

Filtration Media

The primary objective is to clean the contaminated water best as possible before discharging it to a filtration plant or the ocean. This requires at least one filter media and usually more depending on the discharge levels.

John Commercial Services offers several types of SORBENT Filtration media:

A combination of media is often recommended to maximize pollutant removal.



Solid Stainless Steel lasts 10 years

Perlite is naturally occurring puffed volcanic ash. Its porous, multi-cellular structure and rough edges make it effective for removing TSS, oil and grease.

Zeolite is a naturally occurring mineral used in a variety of water filtration applications. It is used to remove soluble metals, ammonium, and some organics.

CSF Leaf Media and MetalRx are created from deciduous leaves processed into granular, organic media. CSF is most effective for removing soluble metals, TSS, oil and grease, and neutralizing acid rain. MetalRx, a finer gradation, is used for higher levels of metal removal.

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Most major credit cards accepted

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