The COANDA Curb Inlet Filter

The COANDA Approach Plate, barely visible, fits snug against the curb inlet opening so as not to impede water flow or be exposed to traffic.

The patented COANDA Curb Inlet Filter is a storm water BMP that employs stainless steel tilted wedge wire technology. This device meets Caltrans definition of a Gross Solids Removal Device (GSRD), and meets the requirements of a full capture treatment system defined by the Los Angeles River TMDL for trash. Unlike conventional filtering devices such as bags, netting, wire screens, debris fences, and storm water clarifiers, our technology is designed specifically to handle high velocity, high volume flow rates associated with rapidly concentrated peak flows coming from all types of land uses. The COANDA Curb Inlet Filter is self-cleaning and non-clogging with no moving parts. It rarely needs servicing but is easily accessible whenever necessary.

The interior of the curb inlet shows the COANDA screen on the right, through which all water passes, and the large debris compartment on the left. Optional treatment is provided underneath the screens.

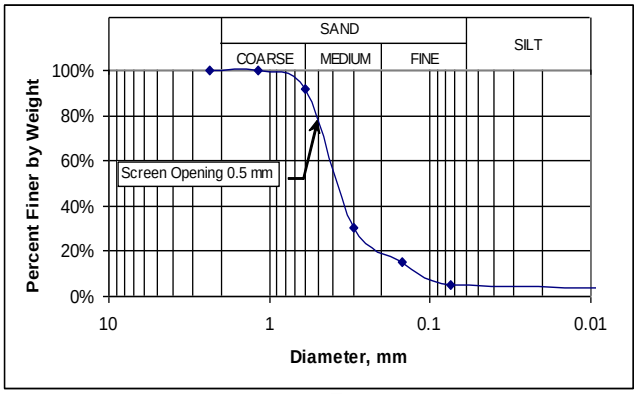
Most existing curb inlets can be retrofitted with the internal working parts to convert them to BMPs. The COANDA screen is mechanically attached to the interior wall of the curb inlet, and the debris compartment is separated from the flow path by a patented debris fence. Structural support is accomplished using supplied stainless steel bolts and mounting brackets. Units can be fabricated to meet specialized mounting configurations, depending upon size and inlet/outlet configurations.

Additional secondary treatment devices including micro-filtration pads, ion exchange resins, disinfection media, and adsorbents, are available as specified.

Vector control is not an issue and bacterial growth is significantly impeded because the captured debris remains dry. No special handling techniques are required for debris removal and can be disposed as ordinary municipal waste.

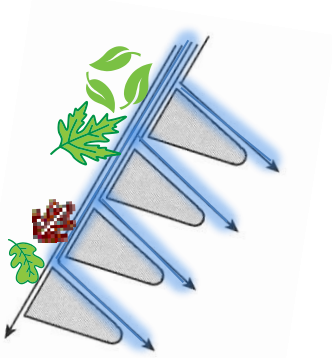
Particulate Removal

The COANDA filter removes everything larger than fine sand.



The COANDA Effect

The edge of the COANDA Screen creates a shearing action as water flows across its surface, diverting water through the screen while dewatered debris slides off the face and falls downward into the debris compartment.



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