

ERTEC Environmental Systems

Protecting the Integrity of Global Lands and Waterways™

Case Study

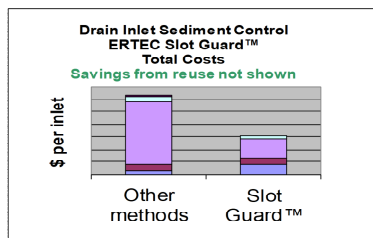
Slot Guard™



- > Lower Project Costs
- > Better Performance
- > ZERO Waste
 - ✓ Reusable
 - ✓ Recyclable



Slot Guard used in conjunction with two GR8 Guard units. Three Slot Guard units are overlapped on a long slot drain.



Application: Drain Inlet Protection: DOT Highway Construction
Product: Slot Guard™ for slot or trench drain sediment control
Location: Connect 202, Maricopa County
Customer: Arizona Department of Transportation

Slot Guard™ is a patent-pending, low cost system designed to keep sediment and debris out of slot or trench drain inlets in paved areas. Slot Guard is a better alternative to gravel bags installed over trench and slot drains during construction. The berm layer forces water to rise to at least one inch before reaching the filter causing heavier particles to settle. The system filters storm water above the ground easing visual inspection and maintenance. The system has a high flow bypass designed to reduce the chance of back ups. It is easy to fasten to the grate with zip ties, has a long life, is resistant to traffic, easy to remove and reusable. During installation or cleaning, the grate does not need to be removed, reducing installer injuries.



The Challenge: This project had several long slot drains along the edges of the roadway. In the past, the only way to protect these during construction operations was to block them or completely surround them with gravel bags. Gravel bags are labor intensive during installation and removal. They can also be a safety hazard to vehicles. Maintenance can be a constant demand if bags are subject to vehicle impacts, or on long lasting projects, UV radiation can deteriorate the bag and allow gravel to release, causing other safety and liability problems.

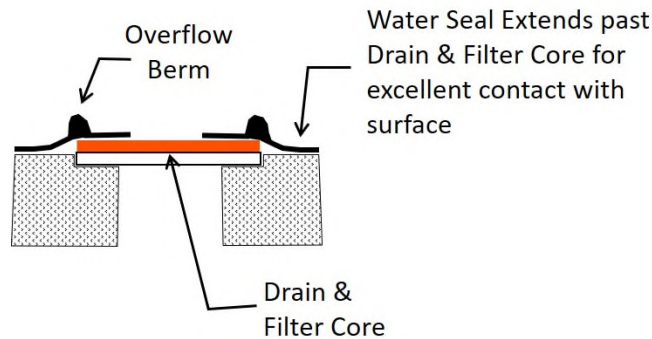
Alternatives: Gravel Bags, Sand Bags

Solution: Slot Guards are attached to the slot or trench drain grate with tie-wire every 2.5 LF. On long slot drains the segments can be overlapped. Installation, maintenance and removal are very fast. When work is performed on an active highway, the speed of installation or removal limits the time laborers are on the road working alongside traffic.

Summary and results:

"Slot Guards installed quickly. We didn't have to spend time maintaining them, and then removal was just as quick. This is a wonderful solution." John Baker—Connect 202 Partners

Economics: Slot Guards typically have a lower first cost than other systems. And reduced installation costs, reduced maintenance costs and reusability dramatically add to the savings.



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 1150 Ballena Blvd. Suite 250, Alameda, CA 94501
 phone: 510-521-0724, fax: 510-521-3972
 sales@ertecsystems.com, www.ertecsystems.com