

YAMAHA RIGHTWATERS Trash Interceptor FAMU-FSU Engineering

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OBJECTIVE

Implement an effective land-based trash interceptor that collects debris in storm drains to prevent trash from entering waterways



Scalable	Concentric pipes with buoyant supports for scaling vertically
Expendable	Free standing device, made to withstand minor storms

Replaceable materials, lowering cost, allowing to reach more people

Modules of smaller subassemblies



DESIGN DESCRIPTION

Baskets rotate around a center shaft at 6 rpm Trash slides into a temporary reservoir Trash is taken from reservoir to dumpster via conveyor

Required Torque: 14 ft-lb Collects 10lb of trash at a time Subassemblies for easy assembly Vertical Expansion: 2-7 ft