

Trash Item Cards



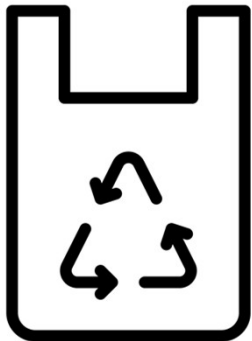
Paper



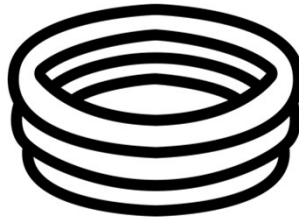
Glass



Metal



Plastic



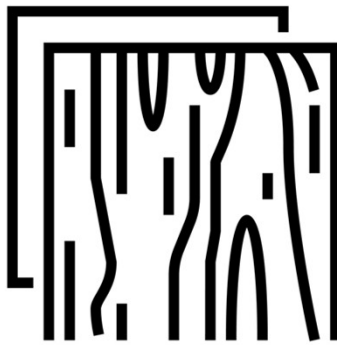
Rubber



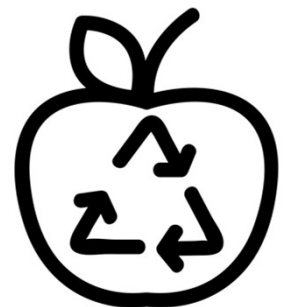
Yard Waste



Textiles



Wood



Food Waste

Decomposition Rate Cards

Print, cut out, and place in a progressing rate scale on a surface.

1

No
degradation,
all material
still there

2

Material is
soft but
whole

3

Few holes

4

Some holes

5

More holes

6

About half of
the material
is gone

7

Many holes

8

Large tears,
material is
falling apart

9

Scraps of
material left

10

Fully
degraded, no
material
present

Curb Inlet Covers

INLET DEVICES

Physical barrier
maintains trash on
street level



Mechanism of Action

- Designed to keep trash on the street
- Physically blocks debris from entering the storm drain system

Performance Matrix

\$ Low Cost Moderate Maintenance	
Pros	Cons
✓ Easy to install ✓ Simple to inspect and replace	✗ Clogs without street sweeping ✗ Effectiveness varies

Catch Basin Outlet Screens

INLET DEVICES

Rigid internal
filtration barrier



Mechanism of Action

- Installed inside storm drains
- Acts as a primary filter to block trash from entering storm water pipes

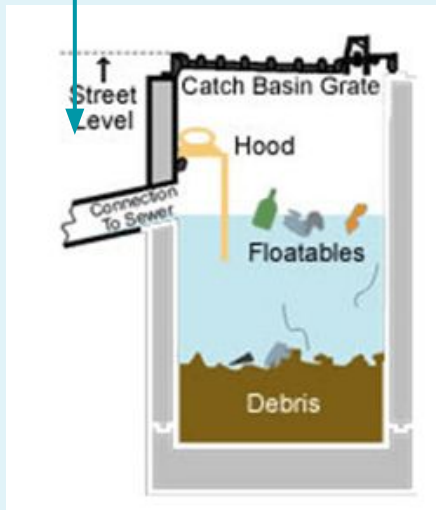
Performance Matrix

\$ Low Cost Moderate Maintenance	
Pros	Cons
✓ Easy to install ✓ Captures additional debris	✗ Hard to access for maintenance ✗ Requires a Vactor truck ✗ Clogs without maintenance

Catch Basin Hoods

INLET DEVICES

Hood bolted to manhole cover & baffles over effluent pipe



Mechanism of Action

- Installed inside catch basins
- Prevents floatable debris from entering storm water pipes

Performance Matrix

\$ Low Cost Easy Maintenance	
Pros	Cons
✓ Easy to install ✓ Infrequent maintenance ✓ Can capture oils	✗ Hard to access for maintenance ✗ Requires a Vactor truck ✗ Ineffective for sinking debris ✗ Limited storage

Catch Basin Fabric Inserts

INLET DEVICES

Fabric filtration barrier



Mechanism of Action

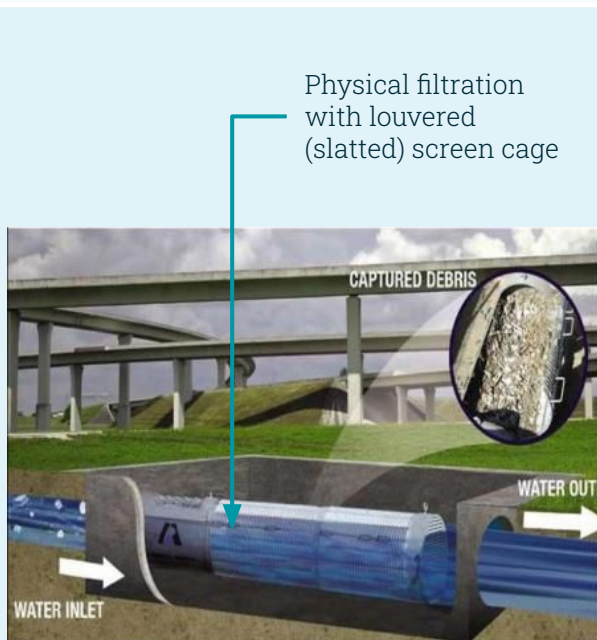
- Suspended inside storm drain opening
- Catches and removes sediment and debris from storm water

Performance Matrix

\$ Low Cost Moderate Maintenance	
Pros	Cons
✓ Easy to install ✓ Captures fine particles	✗ Requires regular replacement ✗ Not suitable for areas of high flow

Linear Radial Devices

IN-LINE & END-OF-PIPE DEVICES



Mechanism of Action

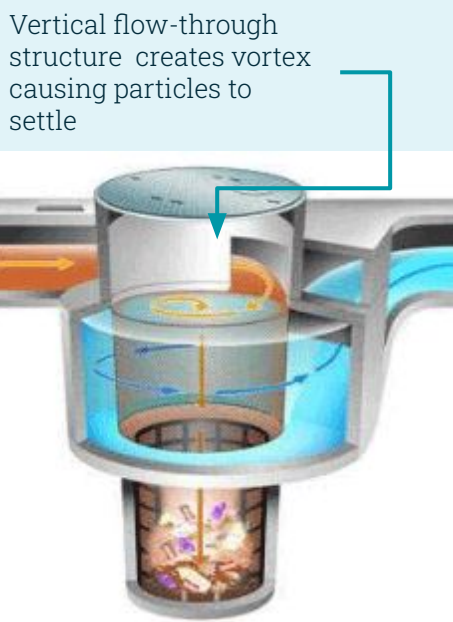
- Installed within cement box, between pipe sections
- Screen retains solids, litter, and debris

Performance Matrix

\$ Moderate Cost		Moderate Maintenance	
Pros		Cons	
✓ Can be retrofitted ✓ Handles moderate flow ✓ Captures range of debris		✗ Difficult installation	

Hydrodynamic Separators

IN-LINE & END-OF-PIPE DEVICES



Mechanism of Action

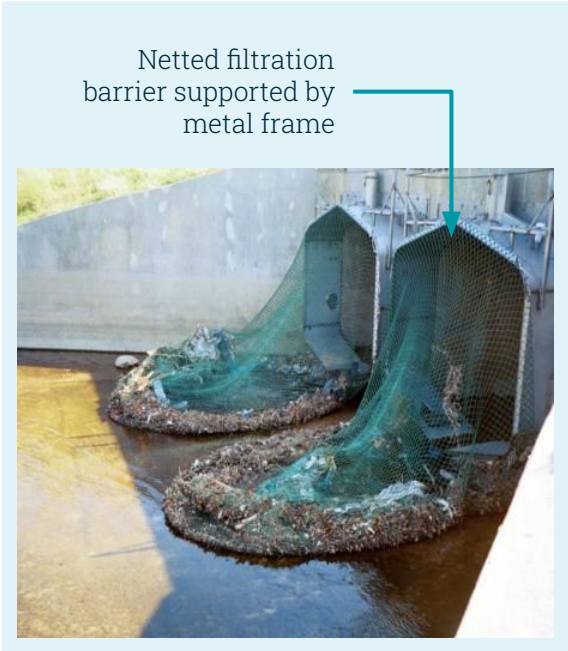
- Installed along storm drain system
- Settling or separation unit uses gravity to remove pollutants

Performance Matrix

\$ High Cost		Moderate Maintenance	
Pros		Cons	
✓ Highly effective at removing wide range of pollutants ✓ Handles high flow		✗ Difficult installation ✗ Requires Vector truck	

Netting Systems

IN-LINE & END-OF-PIPE DEVICES



Mechanism of Action

- Installed at end of pipes or in-line within underground chambers
- Capture trash and debris in netting

Performance Matrix

\$ Moderate Cost High Maintenance	
Pros	Cons
✓ Effective for large trash loads ✓ Simple design that is easily replaced when full	✗ Requires crane and load truck for removal

Trash Skimmer Vessels

OPEN WATER DEVICES

Mechanical removal of debris using conveyor



Mechanism of Action

- Collect floating debris on specially designed boat

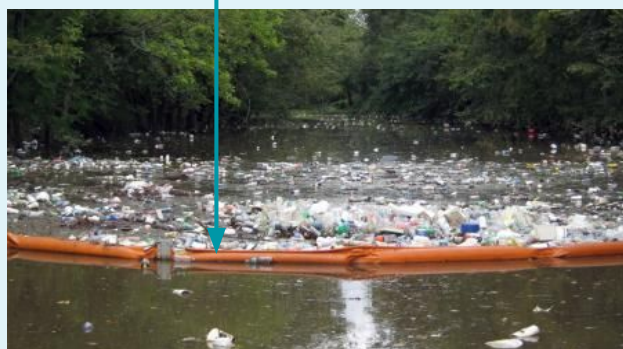
Performance Matrix

\$ High Cost High Maintenance	
Pros	Cons
✓ Effective in large waters ✓ Captures large loads of floating debris	✗ Weather affects operation ✗ Require equipment to off-load and transport debris

Litter Booms

OPEN WATER DEVICES

Floating barrier stretches across water surface, screen suspends in water column



Mechanism of Action

- Installed across waterway
- Catches and prevents floating litter from moving downstream

Performance Matrix

\$ Low Cost High Maintenance	
Pros	Cons
✓ Adaptive placement ✓ Captures large loads of floating debris ✓ Can absorb oil and grease	✗ Effectiveness varies ✗ Poor aesthetics

Bandalong Litter Trap

OPEN WATER DEVICES



Floating litter trap

Mechanism of Action

- Anchored within waterway
- Guides debris into trap using current

Performance Matrix

\$ Moderate Cost High Maintenance	
Pros	Cons
✓ Handles variable flows ✓ Durable and allows wildlife to move beneath ✓ Captures large loads of floating debris	✗ Difficult installation ✗ Poor aesthetics

Trash Trap

OPEN WATER DEVICES



Screen made of metal rods and posts across stream

Mechanism of Action

- Captures trash throughout water column as it is pushed by the current so it doesn't clog the screen

Performance Matrix

\$ Moderate Cost Easy Maintenance	
Pros	Cons
✓ Captures large loads of floating debris ✓ Good for retrofits	✗ Requires regular cleaning

Voting Cards

Print, cut out, and provide each group with a green, yellow, and red card.

**Low Cost,
High Efficiency,
or
Easy Maintenance**

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