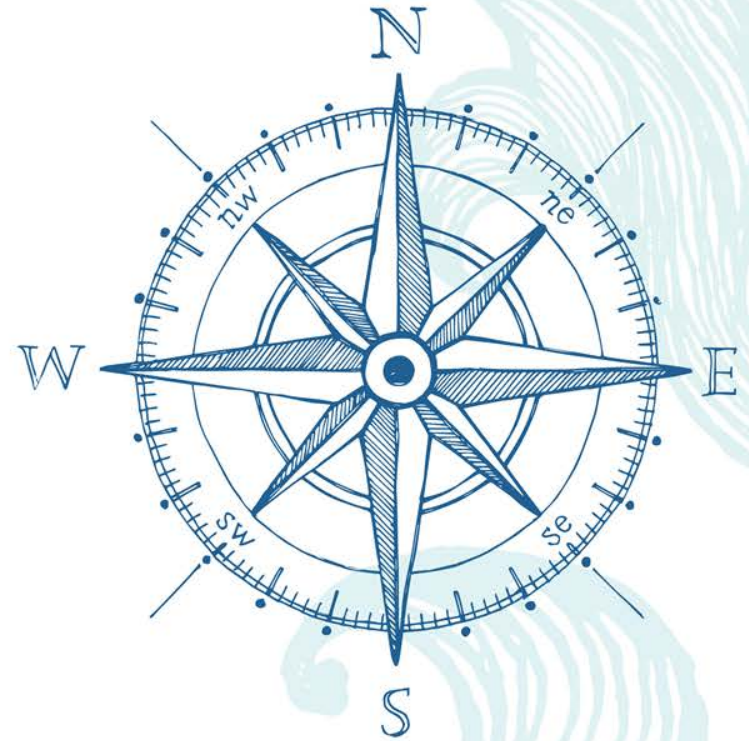


BUILDING COLLABORATIVE COMMUNITIES

NAVIGATING CHALLENGES, CHARTING INNOVATIONS



State Water Board Trash Amendments

Adopted in April 2015 by the State Water Resources Control Board

Impacted Entities:

- Phase I and II Municipal Stormwater—Except Bay Area and LA Phase I MS4s. (In a TMDL watershed? Seek clarification!)
- California Department of Transportation (Caltrans)
- Permitted Industrial Facilities

Trash Reduction Requirement

- Install/Maintain **Full Capture Systems (or Equivalent Actions)** in all Priority Land Use (PLUs)(or Equivalent Land Areas) within 10 years from the effective date of the implementing permit.



Compliance Approaches – *Track 1 vs. Track 2*

- **Track 1** – Install, operate, and maintain **full capture systems** for all storm drains that capture runoff from all priority land uses (or equivalent)
- **Track 2** – Install, operate, and maintain **any combination** of full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls
 - Achievement of **full capture system equivalency**



Track 1: Trash Full Capture Systems

- MUST BE CERTIFIED BY STATE WATER BOARD STAFF

https://www.waterboards.ca.gov/water_issues/programs/stormwater/trash_implementation.html

Proprietary Devices

- Catch Basin Inserts
 - 24 Types/Models (13 vendors)
- Large/High Flow Capacity
 - 16 Types/Models (8 vendors)

Multi-benefit Treatment Systems

- Bioretention
- Capture and Use
- Detention Basin
- Infiltration Trench or Basin
- Media Filter



Multi-benefit Treatment Systems

- Prohibits the discharge of particles 5 mm or greater to surface waters offsite
- Sizing: **in flux—see website for updates**
- Requires design plans stamped by a registered California licensed professional civil engineer



Fact Sheets @: https://www.waterboards.ca.gov/water_issues/programs/stormwater/docs/trash_implementation/fcs_list_of_mbts_04aug17.pdf



Track 2 – Full Capture Equivalency

(from State Board Staff Report)

The trash load that would be reduced if full capture systems were installed, operated, and maintained for all storm drains that capture runoff from the relevant areas of land (e.g., Priority Land Uses)



Full Capture Equivalency (FCE) Approach

via On-land Visual Trash Assessments (OVTA)

- Walking/driving survey of trash levels on areas draining to MS4s
- Qualitative Assessment
 - Training needed
 - Quality Assurance/Control
- Used to establish:
 - Baseline – Observed levels of trash on-land during baseline time period (e.g., 2018)
 - Progress – Changes in levels of trash on-land over time
- Equivalence = achieving lowest assessment level of on-land trash in priority land use (PLU) areas



OVRTA Assessment Levels

Trash Level	General Description	Definition
A	Not Littered	<ul style="list-style-type: none"> Effectively no trash is observed Any trash is not obvious at first glance Cleanup is a one-person job walking at a normal pace No additional measures are needed
B	Slightly Littered	<ul style="list-style-type: none"> A few littered areas Trash noticeable at first glance Cleanup is a one or two-person job walking at a slow pace Additional measures are needed
C	Littered	<ul style="list-style-type: none"> A few clean areas Trash widely distributed Cleanup is a multi-person job requiring frequent stops Roughly 4 times the trash as B level
D	Very Littered	<ul style="list-style-type: none"> Continuous trash Piles Cleanup requires a large, organized effort Roughly 3 times the trash as C level



OVRTA Protocols

Protocol	Protocol Name	When to Use
A	Street and Sidewalk Survey	<ul style="list-style-type: none"> • Streets with sidewalks are the primary areas draining to storm drain inlets • Safe to walk the assessment site
B	Driving Survey	<ul style="list-style-type: none"> • Streets with sidewalks are the primary areas draining to storm drain inlets • No sidewalks exist or it's unsafe to walk the assessment site
C	Area-based Survey	<ul style="list-style-type: none"> • Areas not directly associated with inlets on streets (e.g., parking lots)



WHERE ARE CONTROLS REQUIRED?

PRIORITY LAND USE (PLU) AREAS – Non-Traditional MS4s

- Permittee defined
- Areas generating “substantial amounts of trash”
 - Moderate (B), high (C) or very high (D) OVTA scores
- **Minimums from the Traditional MS4 Program**
 - **Student Housing**
 - **Commercial** – sale/transfer of goods/services
 - **Public Transportation Stations** – facilities/sites where public transit agencies’ vehicles load/unload passengers or goods



OVTA Resources

- http://eoainc.com/ovta_fc/
- https://www.waterboards.ca.gov/water_issues/programs/stormwater/trash_implementation.html

