ATTACHMENT H – TRASH IMPLEMENTATION REQUIREMENTS

OVERVIEW

The requirements of this Attachment implement the Trash Provisions of the Water Quality Control Plan for Ocean Waters of California (Ocean Plan) and the Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California (cumulatively the Trash Provisions).

This Attachment identifies three categories of Permittees:

- Renewal Permittees identified in Attachment B of this Order.
- New Permittees designated under this Order and listed in Attachment B.
- New Permittees designated after adoption of this Order.

H1. COMPLIANCE WITH TRASH WATER QUALITY OBJECTIVES AND PROHIBITION OF DISCHARGE

Permittees shall comply with Order section 5.3, the Trash narrative Water Quality Objectives and Prohibition of Discharge through compliance with the requirements of this Attachment.

H2. COMPLIANCE DEADLINE

1. Renewal Permittees listed in Order Attachment B shall demonstrate full compliance with the requirements of this Attachment by December 2, 2030.
2. New Permittees listed in Order Attachment B shall demonstrate full compliance with the requirements of this Attachment within ten years of the effective date of this Order.
3. New Permittees designated after the effective date of this Order shall demonstrate full compliance with this Attachment within ten years of the effective date of their designation.

H3. APPLICABILITY

Traditional and Non-Traditional Permittees shall comply with the requirements of this Attachment.

H4. CERTIFIED FULL CAPTURE SYSTEMS AND THE PEAK FLOW RATE, Q

H4.1 Definition of Certified Full Capture Systems

1. Certified Full Capture Systems include both Certified Trash Full Capture Trash Systems and Categorically Certified Multi-Benefit Systems. Certified Full Capture Systems[1] are trash treatment control systems that are certified by the State Water Board Executive Director to trap all particles 5-millimeters or greater.

2. In accordance with the Trash Provisions, Permittees shall ensure that Certified Full Capture Systems have a design treatment capacity that is:

   a. Not less than the peak flow rate, Q, resulting from a one-year, one-hour, storm in the subdrainage area, or

   b. Designed and sized to convey at least the same flows as the corresponding storm drain, if the storm drain conveys less than the peak flow rate.

H4.2 Rational Equation to Compute the Peak Flow Rate, Q

For each subdrainage area discharging to a Certified Full Capture System, Permittees shall use the Rational Equation[2] to compute the peak flow rate, as shown in the formula below:

$$\mathbf{Q = C \cdot i \cdot A}$$

Where "Q" is the design flow rate in cubic feet per second; "C" is the runoff coefficient (dimensionless); "i" is the design rainfall intensity in inches per hour as determined from the rainfall isohyetal map specific to each region[3], and "A" is the subdrainage area in acres.

H4.3 Lists of Certified Full Capture Systems

[1] Certified Trash Full Capture Systems (including High Flow Trash Full Capture Systems) and Categorically Certified Multi-Benefit Systems are found at the State Water Board's Trash Implementation Program web page.
[2] The Rational Equation is alternatively referred to as the Rational Method.
[3] NOAA Atlas 14 is frequently used to determine the intensity, which will be replaced with NOAA Atlas 15 in 2026.

Lists of Certified Full Capture Systems and implementation requirements for Categorically Certified Multi-Benefit Systems are published on the State Water Board's Trash Implementation Program web page.

H4.4 Application Process to Certify a New Trash Full Capture System

Permittees may apply to certify a new trash full capture system by submitting a complete application in accordance with the application requirements published on the State Water Board's Trash Implementation Program web page. For project-specific new trash full capture systems, the project specific application is available upon request.

H5. DEFINITIONS AND COMPLIANCE TRACKS

H5.1 Priority Land Uses

Priority Land Uses are (1) high-density residential land uses with at least ten (10) developed dwelling units/acre; (2) Industrial land uses where the primary activities on the developed parcels involve product manufacture, storage, or distribution (e.g., manufacturing businesses, warehouses, equipment storage lots, junkyards, wholesale businesses, distribution centers, or building material sales yards); (3) Commercial land uses where the primary activities on the developed parcels involve the sale or transfer of goods or services to consumers (e.g., business or professional buildings, shops, restaurants, theaters, vehicle repair shops, etc.); (4) Mixed urban land uses where high-density residential, industrial, and/or commercial land uses predominate collectively (i.e., are intermixed); and (5) Public transportation stations: facilities or sites where public transit agencies' vehicles load or unload passengers or goods (e.g., bus stations and stops); and (6) as approved by the applicable Regional Water Board Executive Officer, equivalent alternative land uses that generate substantial amounts of trash.

H5.2 Equivalent Alternate Land Uses

A Permittee with regulatory authority over Priority Land Uses may request approval from the applicable Regional Water Board Executive Officer to substitute one or more land uses with alternate land uses within the Permittee's jurisdiction that generates trash at rates equivalent to or greater than the Priority Land Use(s) being substituted. The substituted land use area need not be an acre-for-acre replacement. Substitution may involve one or more Priority Land Uses, a fraction of a Priority Land Use, or both, provided that the total trash generated from the equivalent alternative land use is equal to or greater than the

total trash generated from the Priority Land Use(s) for which substitution is requested. Comparative trash generation rates shall be established through the reporting of quantification measures such as street sweeping and catch basin cleanup records; mapping; visual trash presence surveys, such as the "Keep America Beautiful Visible Litter Survey"; or other information as required by the applicable Regional Water Board Executive Officer.[4]

H5.3 Substantial Trash Generation Areas

Areas with Very High, High, and Moderate trash generation rates are considered substantial trash generation areas. Trash generation rates are described and quantified as defined by the On-Land Visual Trash Assessment (OVTA) Protocol, as follows:

Table H5.3: Trash Generation Rates

Trash Generation Rate	Description of Trash Generation Rate[5]	Best Midpoint Trash Generation Rates and Ranges in gallons/acre/year[6]
Low	Effectively no trash is observed in the assessment area. Approximately less than one piece per two car lengths (on average). There may be some small pieces in the area, but they are not obvious at first glance. One individual could easily clean up all trash observed in a very short timeframe	2.5 (0 – 5)
Moderate	Predominantly free of trash except for a few areas with trash. On average, one piece per two car lengths. The trash could be collected by one or two individuals in a short period of time	7.5 (5 – 10)
High	Predominantly trash-strewn except for a few clean areas. Trash is widely/evenly distributed and/or small accumulations are visible. At least two or three pieces per car length on average. It would take a more organized effort to remove all trash from the area	30 (10 – 50)
Very High	Trash is continuously seen throughout the assessment area. Large piles and a strong impression of lack of concern for trash in the	90 (>50)

[4] From the glossary in the Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California and Appendix I to the Final Trash Amendment to the Water Quality Control Plan for Ocean Water of California.
[5] EOA Inc/BASMAA, Table 2.1, Tracking California's Trash Project, June 2017
[6] EOA Inc/BASMAA, Table 1.1, Tracking California's Trash Project, June 2017

Trash Generation Rate	Description of Trash Generation Rate[5]	Best Midpoint Trash Generation Rates and Ranges in gallons/acre/year[6]
	area. There is often significant trash. It would take a large number of people during an organized effort to remove all trash from the area	

H5.4 Traditional and Non-Traditional Permittees

1. Traditional Permittees: Traditional Permittees have regulatory authority over and treat the discharge from Priority Land Use areas. The Permittee identifies Priority Land Use areas with substantial amounts of trash using the On-Land Visual Assessment Tool or equivalent tool, with the ability to rate areas as having Very High, High, or Moderate trash generation rates.

2. Non-Traditional Permittees. Non-Traditional Permittees may have land uses and locations that generate substantial amounts of trash, but do not clearly fall under the definition of Priority Land Use Areas. The Trash Provisions allow interpretation regarding whether high-density residential uses, buildings, or facilities qualify as priority land uses. Substantial amounts of trash may also be generated at non-traditional facilities or sites not explicitly defined as Priority Land Uses, such as parking lots, right of ways, and other land uses within the Permittee's jurisdiction. For Non-Traditional Permittees, areas with substantial amounts of trash shall be identified using the On-Land Visual Assessment Tool or equivalent tool, with ability to rate areas as having Very High, High, or Moderate trash generation rates.[7].

H5.5 Compliance Track Options for Traditional and Non-Traditional Permittees

Traditional and Non-Traditional Permittees shall choose one of the compliance track options listed below:

1. Traditional Track 1 Permittees: Traditional Track 1 Permittees shall install, operate, and maintain Certified Full Capture Systems for all storm drains that capture runoff from the Priority Land Uses in their jurisdictions.

2. Traditional Track 2 Permittees: Traditional Track 2 Permittees shall install, operate, and maintain any combination of Certified Full Capture Systems, other treatment controls, and institutional controls within either the Permittee's jurisdiction or the jurisdiction of the Permittee in coordination with contiguous Permittees.

[7] See section H8. Trash Assessment Plan (Track 2)

a. Traditional Track 2 Permittees may determine the locations or land within their jurisdiction that discharge to the storm drain system that generate substantial amounts of trash and shall implement any combination of controls at those locations.

b. Traditional Track 2 Permittees shall demonstrate that such a combination achieves Full Capture System Equivalency. Permittees shall demonstrate that the amount of trash addressed at Priority Land Uses, together with identified locations or land uses that generate substantial amounts of trash, is equal to or greater than the amount of trash generated by the Permittee's Priority Land Uses. It is the State Water Board's expectation that Traditional Track 2 Permittees will install Certified Full Capture Systems where such installation is not cost-prohibitive.

3. Non-Traditional Track 1 Permittees: Non-Traditional Track 1 Permittees shall install, operate, and maintain Certified Full Capture Systems for all storm drains that capture runoff from locations and land uses that generate substantial amounts of trash in their jurisdictions.

4. Non-Traditional Track 2 Permittees:

a. Non-Traditional Track 2 Permittees shall install, operate, and maintain any combination of Certified Full Capture Systems, other treatment controls, and institutional controls within either the Permittee's jurisdiction or the jurisdiction of the Permittees in coordination with contiguous Permittees to address locations and land uses that generate substantial amounts of trash.

b. The Non-Traditional Track 2 Permittees shall determine the locations and land uses within their jurisdictions that generate substantial amounts of trash. Permittees shall demonstrate that such combination achieves Full Capture System Equivalency. It is the State Water Board's expectation that Non-Traditional Track 2 Permittees will install Certified Full Capture Systems wherever such installations are not cost-prohibitive.

H5.6 How to Select or Change the Compliance Track

Permittees shall prepare and upload to SMARTS a certification statement with their selection of compliance track (i.e., Track 1 or Track 2), as required below:

1. Renewal Permittees listed in Order Attachment B shall implement their previously selected compliance track as required by the State Water Board's June 2, 2017, Water Code section 13383 Order.

2. New Permittees listed in Order Attachment B shall select and upload to SMARTS within 60 days of enrollment for coverage under this Order a certification statement with their selected compliance track.

3. New Permittees designated after the effective date of this Order shall select and upload to SMARTS within 60 days of enrollment for coverage under this Order a certification statement with their selected compliance track.

4. Permittees may change their compliance track through the following procedure:

   a. Prepare and upload your certification statement with the new compliance track to SMARTS.

   b. Notify the appropriate Regional Board Executive Officer of the compliance track change via e-mail.

   c. Comply with the requirements associated with the selected compliance track.

   d. Update their Trash Implementation Inventory, Trash Generation Map, Trash Assessment Plan (Track 2 and non-Traditional Track 1), and Trash Implementation Plan (Track 2) and submit via SMARTS within 180 days of changing their compliance track.

H6. TRASH IMPLEMENTATION INVENTORY: ACRES TREATED AND ACRES REMAINING

The initial Trash Implementation Inventory shall identify the area already treated and the area remaining to be treated. Permittees shall prepare an initial inventory and thereafter shall prepare annual updates. Their Trash Implementation Inventory shall cover the period starting with July 1 and ending on June 30 of each year. Their Trash Implementation Inventory shall be retained according to the Record Retention requirements in section H19. The Trash Implementation Inventory includes all the information necessary to prepare and annually update the Trash Generation Map that is required under section H7.

The schedule for the initial Trash Implementation Inventory is provided as follows:

1. Within 180 days of the effective date of this Order, Renewal and New Permittees listed in Order Attachment B shall prepare an initial Trash Implementation Inventory.

2. Within 180 days of designation, New Permittees designated after the effective date of this Order shall prepare an initial Trash Implementation Inventory.

The Trash Implementation Inventory shall be updated annually and shall distinguish the area already treated as of the effective date of this Order or the effective date of designation (whichever is later) and the area remaining to be treated. The Trash Implementation Inventory shall include the items specified in sections H6.1 through H6.6. as applicable.

H6.1 Traditional Permittees Selecting Track 1

For Traditional Permittees selecting Track 1, the Trash Implementation Inventory shall include the following

1. List all subdrainage areas containing Priority Land Use areas using a unique identification number system, latitude and longitude coordinates, Geographic Information System-(GIS-) mapped locations and drainage area served by its full capture system, and representative or nearest street address.

2. For each subdrainage area or location, include:

    a. The total Priority Land Use area;

    b. The Priority Land Use area already addressed by or proposed to be addressed by Certified Full Capture Systems; and,

3. For each subdrainage area with Certified Full Capture Systems already installed or proposed to be installed in the following reporting year, include:

    a. The peak flow rate in cubic feet per second resulting from a one-year, one-hour storm in the subdrainage area, or flow of the corresponding storm drain;

    b. The hydraulic capacity, trash treatment capacity (if included in the vendor's application), and model name of each Certified Full Capture System already installed or proposed to be installed in the following reporting year; and

    c. Date(s) of maintenance performed in the previous year, if applicable, and proposed general schedule for maintenance in the following reporting year for each Certified Full Capture System.

H6.2 Non-Traditional Permittees Selecting Track 1

In accordance with the Permittee's Trash Assessment Plan (section H8), Non-Traditional Permittees selecting Track 1 shall conduct either the On-Land Visual Trash Assessment approach or an equivalent empirical approach to determine baseline trash generation rates for each location or land use that generates substantial amounts of trash. The Trash Implementation Inventory shall include the following:

1. List all subdrainage areas determined by the Permittees to generate substantial amounts of trash using a unique identification number system, latitude and longitude coordinates, and representative or nearest street address.

2. For the subdrainage areas identified above include:

    a. The total area;

    b. Total area of land uses that generate substantial amounts of trash; and

    c. Total area of land uses that generate substantial amounts of trash already addressed by or proposed to be addressed by Certified Full Capture Systems.

3. For each subdrainage with Certified Full Capture Systems already installed or proposed to be installed in the following reporting year, include:

    a. The peak flow rate in cubic feet per second resulting from a one-year, one-hour storm in the subdrainage area or flow of the corresponding storm drain;

    b. The trash treatment capacity and model name of each Certified Full Capture System already installed or proposed to be installed in the following reporting year, and

    c. Date(s) of maintenance performed in the previous year and next scheduled maintenance date(s) in the following reporting year.

H6.3 Traditional Permittees Selecting Track 2

For Traditional Permittees selecting Track 2, the Trash Implementation Inventory shall include the following:

1. In accordance with the Permittee's Trash Assessment Plan required in H.8, conduct either the On-Land Visual Trash Assessment Approach or equivalent empirical approach to determine trash generation rates for each Priority Land

Use and determined locations or land uses that generate substantial amounts of trash.

2. List all subdrainage areas determined by the Permittee to generate substantial amounts of trash using a unique identification number system, latitude and longitude coordinates, and representative or nearest street address.

3. For the subdrainage areas identified above, include:

   a. The total area already addressed by or proposed to be addressed by a combination of Certified Full Capture Systems, other treatment controls, and institutional controls,

   b. The trash generation rates in gallons per acre per year for each Priority Land Use and determined locations or land uses that generate substantial amounts of trash; and

   c. The trash generation rates for all Priority Land Uses where Certified Full Capture Systems will not be implemented.

4. For each subdrainage with Certified Full Capture Systems already installed or proposed to be installed in the following reporting year, include:

   a. The peak flow rate in cubic feet per second resulting from a one-year, one-hour storm in the subdrainage area, or flow of the corresponding storm drain;

   b. The trash treatment capacity and model name of each Certified Full Capture System already installed or proposed to be installed in the following reporting year; and

   c. Date(s) of maintenance performed in the previous year and next scheduled maintenance date(s) in the following reporting year.

5. For each subdrainage area where a combination of other treatment controls and institutional controls have been implemented, or are proposed to be implemented, include the previous year dates and next scheduled maintenance date(s) for the following reporting year.

6. Include a description of and rationale for the combinations of other treatment controls and institutional controls selected to achieve Full Capture System Equivalency. The rationale shall demonstrate that the amount of trash to be addressed at Priority Land Uses and determined locations or land uses that

generate substantial amounts of trash is equal to or greater than the amount of trash generated by the Permittee's Priority Land Uses.

H6.4 Non-Traditional Permittees Selecting Track 2

For Non-Traditional Permittees selecting Track 2, the Trash Implementation Inventory shall include the following:

1. In accordance with the Permittee's Trash Assessment Plan, conduct either the On-Land Visual Trash Assessment Approach or an equivalent empirical approach to determine trash generation rates for each location or land use that generates substantial amounts of trash.

2. List all subdrainage areas determined by the Permittee to generate substantial amounts of trash using a unique identification number system, latitude and longitude coordinates, and representative or nearest street address.

3. For the subdrainage areas identified above, include:

   a. The total area;

   b. The area already addressed by or proposed to be addressed by a combination of Certified Full Capture Systems, other treatment controls, and institutional controls.

4. For each subdrainage area with Certified Full Capture Systems already installed or proposed to be installed in the following reporting year, include:

   a. The peak flow rate in cubic feet per second resulting from a one-year, one-hour storm in the subdrainage area, or flow of the corresponding storm drain;

   b. The trash treatment capacity and model name of each Certified Full Capture System already installed or proposed to be installed in the following reporting year; and

   c. Date(s) of maintenance performed in the previous year and next scheduled maintenance date(s) for the following reporting year.

5. For each subdrainage area where a combination of other treatment controls and institutional controls have or will be implemented, include the date(s) of previous year's maintenance and next scheduled maintenance date(s) in the following reporting year.

6. Include a description of and rationale for the combinations of other treatment controls and institutional controls selected to achieve Full Capture System Equivalency.

H6.5 Traditional Track 1 Permittees Requesting Equivalent Alternate Land Use Substitution for Priority Land Use

1. Traditional Track 1 Permittees may request authorization from the applicable Regional Water Board Executive Officer to substitute one or more Priority Land Uses with equivalent alternative land uses within the Permittee's jurisdiction, as follows:

    a. Permittees shall establish, in accordance with the definition of equivalent alternate land use (section H5.2), that trash generation rates (in gallons per acre per year) in the equivalent alternate land use are equal to or greater than those of Priority Land Uses. The equivalent alternate land use area requested to substitute for a Priority Land Use need not be an acre-for-acre substitution; substitution may involve one or more Priority Land Uses, or a fraction of a Priority Land Use, or both, provided the total trash generated in the equivalent alternative land use is equal to or greater than the total trash generated from the Priority Land Use(s) for which substitution is requested; and,

    b. Permittees shall provide a rationale for the requested substitution.

2. If a Priority Land Use substitution is authorized, Permittees shall include the alternative land uses in the Trash Implementation Inventory and Trash Generation Map.

H6.6 Newly Identified Regulated Areas

1. Any newly identified Priority Land Uses or other locations and land uses (Newly Identified Regulated Areas) shall be addressed in accordance with the requirements of this Order.

2. Newly Identified Regulated Areas shall be included in the Trash Implementation Inventory, Trash Generation Map, Trash Assessment Plan (Track 2 and Non-Traditional Track 1 only), and Trash Implementation Plans (Track 2 only).

3. Newly Identified Regulated Areas are subject to the Trash Reduction Milestones in section H13.

4. Priority Land Uses or other locations and land uses that were required to have been identified by the Permittee in its initial Trash Implementation

Inventory (section H6) are not eligible for classification as Newly Identified Regulated Areas.

a. For Traditional Track 1 Permittees, this includes any Priority Land Uses in existence at the time the Permittee submitted its initial Trash Implementation Inventory that were not substituted for alternative land uses per section H6.5 of this Attachment.

b. For Traditional Track 2 Permittees, this includes any areas necessary to achieve Full Capture System Equivalency as measured against Priority Land Uses in existence at the time the Permittee submitted its initial Trash Implementation Inventory.

c. For Non-Traditional Permittees, this includes any areas that should have been identified as generating substantial amounts of trash in the Permittee's initial Trash Generation Maps (see section H7).

H7. TRASH GENERATION MAPS

Trash Generation Maps shall be submitted in accordance with the Reporting Items in section H18 and shall include the information required below. Trash Generation Maps shall be submitted to SMARTS by October 15 of each year and shall cover the period starting on July 1 and ending on June 30 of each year.

1. Traditional and Non-Traditional Permittees listed in Order Attachment B shall within 180 days of the effective date of this Order prepare and submit via SMARTS a new or updated Trash Generation Map that addresses the requirements in H7.1 through H7.2, as applicable.

2. Within 180 days of designation, New Permittees designated after the effective date of this Order shall prepare and submit via SMARTS a new Trash Generation Map that addresses the requirements in H7.1 through H7.2, as applicable.

The Permittees shall annually review and update as necessary their Trash Generation Map and submit via SMARTS by October 15.

H7.1 Trash Generation Map for Traditional Permittees

Traditional Permittees shall include the following information in the Trash Generation Maps:

1. All Priority Land Use subdrainage areas discharging to the MS4 and the corresponding stormwater conveyance system, including inlets and outlets that collect and convey discharges from Priority Land Uses.

2. GIS-mapped locations of Certified Full Capture Systems that have been installed and those proposed to be installed in the following reporting year.

3. Track 2 Permittees shall additionally include:

   a. Based upon the trash assessments required in section H.8, the trash generation rates of all locations and land uses where a combination of other treatment controls and institutional controls have been or will be implemented. Color coding of the trash generation rate for each location and land use is recommended for clarity; and

   b. Locations and land uses where a combination of other treatment controls and institutional controls have been implemented that achieve Full Capture System Equivalency.

H7.2 Trash Generation Map for Non-Traditional Permittees

Non-Traditional Permittees shall include the following information in the Trash Generation Maps:

1. Based on the trash assessments required in section H8, the trash generation rates of all locations and land uses determined to generate substantial amounts of trash and that discharge to the MS4 stormwater conveyance system, including the location of inlets and outlets that collect and convey discharges from the locations and land uses. Color coding of the trash generation rate for each location and land use is recommended for clarity;
2. GIS-mapped Locations and land uses of Certified Full Capture Systems that have been installed and those proposed to be installed in the following reporting year; and
3. Track 2 Permittees shall additionally include:
   a. Locations and land uses where a combination of other treatment controls and institutional controls have been implemented to achieve Full Capture System Equivalency; and
   b. Locations and land uses where a combination of other treatment controls and institutional controls will be implemented in the following reporting year to achieve Full Capture System Equivalency.

H8. TRASH ASSESSMENT PLAN: TRACK 2 AND NON-TRADITIONAL TRACK 1 PERMITTEES[8]

Trash Assessment Plans are required for Non-Traditional Track 1, Traditional Track 2, and Non-Traditional Track 2 Permittees. Permittees shall retain their Trash Assessment Plan and annual updates according to the Record Retention requirements in section H19 of this Attachment.

The trash assessment is only required to demonstrate Full Capture System Equivalency for areas where other trash treatment controls and/or institutional controls have been implemented. Trash levels shall be assessed for Very High, High, Moderate, and Low levels generation rates (see section H5.3 for the table with trash generation rates).

This Order does not require Renewal Permittees to additionally assess such areas where the Permittees have implemented Certified Full Capture Systems since these systems inherently achieve Full Capture System Equivalency if designed and maintained properly.

Applicable Permittees shall prepare and implement their Trash Assessment Plan according to the following schedule:

1. Within 90 days of the effective date of this Order, each Non-Traditional Renewal Permittee selecting Track 1 shall prepare its Trash Assessment Plan. Thereafter the Trash Assessment Plan shall be updated each reporting year as necessary.

2. Within 90 days of the effective date of this order, each Permittee who selected Track 2 shall prepare its initial or updated Trash Assessment Plan. Thereafter the Trash Assessment Plan shall be updated each reporting year as necessary.

3. Within 90 days of designation, New Permittees selecting Track 2 and New Non-Traditional Permittees selecting Track 1 shall prepare their Trash Assessment Plan. Thereafter the Trash Assessment Plan shall be updated each reporting year as necessary.

H8.1 Prepare and Update the Trash Assessment Plan

The Trash Assessment Plan shall include the following:

[8] The State Water Board 13383 Water Quality Order, June 1, 2017, required development and submittal of Trash Assessments for Permittees selecting Track 2.

1. Identification of either the On-land Visual Trash Assessment methodology or an equivalent empirical approach approved by the Regional Water Board Executive Officer. All trash assessments shall be capable of identifying trash generating areas with Very High, High, Moderate, and Low trash generation rates. Areas with Very High, High, and Moderate trash generation rates are considered substantial trash generation areas;

2. A map geographically depicting the trash assessment areas evaluated during the previous reporting year and the trash assessment areas proposed to be evaluated during the following reporting year. Incorporate this information into the Trash Generation Map required in section H7;

3. The interval and frequency of trash assessments, including justification that the selected intervals and frequencies will yield data representative of trash generation;

4. Trash assessment field procedures;

5. Quality assurance and quality control procedures, including field trash assessor training, to ensure the representativeness, comparability, completeness, sensitivity, and accuracy of the trash assessment data collected; and

6. Trash assessments are not required in areas where a Certified Full Capture System is designed in accordance with section H4.

H8.2 Implement the Trash Assessment Plan

1. Conduct trash assessments within 180 days of the effective date of this Order or within 180 days of new designation to establish initial trash generation rates.

    a. Renewal Permittees may utilize previous trash assessments conducted to comply with the State Water Board 13383 Water Code Order; however, the Permittee's trash assessments shall be updated as necessary (i.e., to account for new trash generation areas).

    b. New Traditional Track 2 Permittees shall conduct a trash assessment of the Priority Land Use areas to identify existing levels of trash. If choosing to select other locations or land uses within their jurisdiction to implement a combination of controls that achieve Full Capture System Equivalency, then the additional selected locations and land uses shall also be assessed. If proposing locations or land uses other than Priority Land Uses, the Permittees shall provide a justification to the Regional Water Board Executive Officer for approval demonstrating that the selected

locations or land uses generate trash at rates that are equivalent to or greater than those Priority Land Uses.

c. New Non-Traditional Permittees shall conduct trash assessments to identify the land uses and locations that generate substantial amounts of trash and to identify the existing levels of trash generation.

2. Conduct trash assessment each reporting year to determine the effectiveness of implemented combinations of other treatment controls and institutional controls in achieving Full Capture System Equivalency.

3. Assess trash load reduction each reporting year at:

a. Each location or land use where the Permittee has implemented a combination of other treatment controls and institutional control, or

b. A statistically representative set of locations or land uses, of similar trash generation levels, and with similar implemented combination of other treatment controls and institutional controls. The results of such assessments will be applied to all corresponding similar locations or land uses. The Permittee shall include a justification supporting the selected locations.

H9. TRASH IMPLEMENTATION PLAN FOR TRACK 2

Track 2 Permittees are required to prepare and updated annually as necessary with their Trash Implementation Plan. Track 2 Permittees shall retain their updated Trash Implementation Plan according to the Record Retention requirements in section H19 of this Attachment.

1. Schedule for Trash Implementation Plan

a. Renewal Permittees listed in Order Attachment B: Within 180 days of the effective date of this Order, renewal Permittees listed in Order Attachment B shall review and update as necessary their initial Trash Implementation Plan.

i. Renewal Permittees that have reviewed and not needed to update their initial Trash Implementation Plan submitted under the State Water Board Water Code Order 13383 shall retain their initial Trash Implementation Plan and annual updates according to the Record Retention requirements.

ii. Renewal Permittees that have revised their initial Trash Implementation Plan submitted under the State Water Board Water

Code Order 13383 shall upload it to SMARTS within 180 days of the effective date of this Order.

b. New Permittees listed in Order Attachment B: Within 180 days of the effective date of this Order, new Permittees listed in Order Attachment B shall prepare their Trash Implementation Plan and upload it to SMARTS. Thereafter, the they shall retain their initial and updated Trash Implementation Plan in accordance with the Record Retention requirements in section H19.

c. New Permittees Designated by the State Water Board after the effective date of this Order: New permittees designated by the State Water Board after the effective date of this Order, shall prepare and submit their Trash Implementation Plan to SMARTS within 180 days of designation. Thereafter, the Trash Implementation Plan shall be updated as necessary and retained according to the Record Retention requirements in section H19.

2. The Trash Implementation Plan shall include:

   a. A schedule for the installation or implementation of Certified Full Capture Systems, other treatment controls, and institutional controls in the following 12 months.

   b. For each Certified Full Capture System proposed to be installed in the following reporting year, provide:

      1) The proposed installation location;

      2) The area discharging to each Certified Full Capture System;

      3) The trash reduction resulting from the installation of the Certified Full Capture Systems (Track 2 Permittees only); and

      4) The design treatment capacity.

3. An annual evaluation of:

   a. The progress toward attaining interim milestones including the progress in achieving the previous year's Trash Implementation Plan goals; and

   b. If applicable, the plan to address a shortfall in trash reduction implementation from the previous years.

4. In addition to the requirements of H8.1 – H8.3, above, all Track 2 Permittees shall include the following:

   a. Stormwater discharge locations and associated area where a combination of other treatment controls and institutional controls are planned to be implemented in the following reporting year.

   b. Descriptions of other treatment controls and institutional controls scheduled to be implemented in the following reporting year for each location and land use identified above; and

   c. The estimated trash reduction resulting from the implementation of the selected combinations of the other treatment controls and institutional controls, which shall be calculated using the methodology described in its Trash Assessment Plan.

5. Permittees shall coordinate activities with the California Department of Transportation to install, operate, and maintain Certified Full Capture Systems, other treatment controls, and institutional controls in mutually impacted areas. Mutually impacted areas are those areas where the jurisdictions and trash generation of the Permittees and the Department overlap.

H10. FULL CAPTURE SYSTEM EQUIVALENCY FOR TRACK 2

Track 2 Traditional and Non-Traditional Permittees shall demonstrate that the combinations of Certified Full Capture Systems, other treatment controls, and institutional controls implemented achieve Full Capture System Equivalency. Full Capture System Equivalency is achieved by:

1. By installing, sizing, and maintaining a Certified Full Capture System at a location; and/or

2. Implementing and maintaining any combination of other treatment controls and institutional controls at locations that result in a trash load reduction equivalent to the performance of properly sized, installed, and maintained Certified Full Capture Systems.

H11. HOW TO CALCULATE THE YEARLY DECREASE IN TRASH FOR TRACK 2

Track 2 Permittees shall use the formula below to calculate and report in the Annual Monitoring Report (section H17) the yearly decrease in trash from the baseline, to demonstrate Full Capture System Equivalency, and to demonstrate compliance with the interim milestones. For Track 2 Permittees, the percentage

discharge reduction from 2027 baseline shall be calculated based on the formula below, which accounts for

- Very High generation areas reduced to High, Moderate, and Low generation areas,
- High generation areas reduced to Moderate and Low generation areas, and
- Moderate trash generation areas reduced to Low trash generation areas.

Formula to Calculate Decrease in Trash for Track 2

The formula allows Track 2 Permittees to receive trash reduction credit for locations and land uses that are improving but still have not achieved Full Capture System Equivalency. Percent discharge reduction is calculated as follows:

Trash Generation % Reduction = $100 \times \frac{\text{Baseline} - \text{Reporting Year}}{\text{Baseline}}$

Baseline = (12 x V_0) + (4 x H_0) + M_0

Reporting Year = **(**12 x V) + (4 x H) + M

Where:

Baseline Year = effective year of the permit or effective date of the Permittee's designation, whichever is later

V_0 = Very high trash generation jurisdictional area in the baseline year

H_0 = High trash generation jurisdictional area in the baseline year

M_0 = Moderate trash generation jurisdictional area in the baseline year

V = Very high trash generation jurisdictional area in the reporting year

H = High trash generation jurisdictional area in the reporting year

M = Moderate trash generation jurisdictional area in the reporting year

12 = Very High to Moderate weighing ratio

4 = High to Moderate weighing ratio

100 = Fraction to percentage conversion factor

H12. TRASH REDUCTION MILESTONES FOR RENEWAL PERMITTEES

Renewal Permittees are listed in Order Attachment B. Renewal Permittees shall achieve the following milestones based on the area identified in the Permittee's Trash Implementation Inventory (see section H6).

1. First Milestone. On or before December 2, 2027:

    a. Renewal Traditional Track 1 Permittees: Install, operate, and maintain Certified Trash Capture Systems at 30 percent of identified Priority Land Use area to be addressed by Certified Full Capture Systems.

    b. Renewal Non-Traditional Track 1 Permittees: Install, operate and maintain Certified Full Capture Systems at 30 percent of identified locations and land use area that generate substantial amounts of trash.

    c. Renewal Traditional and Non-Traditional Track 2 Permittees: Install, operate, and maintain any combination of Certified Full Capture Systems, other treatment controls, and institutional Controls to address 30 percent of determined locations or land uses area that generates substantial amounts of trash.

2. Second Milestone. On or before December 2, 2028, Renewal Traditional Track 1 Permittees shall install Certified Full Capture Systems at 65 percent or more of the identified Priority Land Use area. Renewal Non-Traditional Track 1 and all Renewal Traditional and Non-Traditional Track 2 Permittees shall address 65 percent of selected area, or locations and land use area generating substantial amounts of trash.

3. Third Milestone. On or before December 2, 2030, Renewal Traditional Track 1 Permittees shall install Certified Full Capture Systems at 100 percent of the identified Priority Land Use area. Renewal Non-Traditional Track 1 and Renewal Traditional and Non-Traditional Track 2 Permittees shall address 100 percent of selected area, or locations and land use area generating substantial amounts of trash.

4. Permittees may request approval of alternative first and second Trash Reduction Milestones for review and approval by Regional Water Board Executive Officer. Requests shall include justification. Upon approval, Permittees shall comply with the approved alternative milestones.

5. Track 2 Permittees may receive partial trash reduction credit for area treated by other treatment controls and institutional controls where trash generation has been reduced using the either the On-land Visual Trash Assessment

methodology or an equivalent empirical approach approved by the Regional Water Board Executive Officer.

6. Track 2 permittees shall calculate trash reduction using the method shown in section H11.

H13. TRASH REDUCTION MILESTONES FOR NEW PERMITTEES

This section applies to New Permittees listed in Order Attachment B and New Permittees designated after the adoption of this Order who shall achieve the following milestones based on the area identified in the Permittee's Trash Implementation Inventory (see section H6).

1. First Milestone for New Permittees. Within four (4) years of the effective date of this Order or the effective date of designation, whichever is later.

   a. New Traditional Track 1 Permittees shall install, operate, and maintain Certified Full Capture Systems at 40 percent of identified Priority Land Use area

   b. New Non-Traditional Track 1 Permittees shall install, operate and maintain Certified Trash Capture Systems at 40 percent of identified locations and land use area that generate substantial amounts of trash.

   c. New Traditional and Non-Traditional Track 2 Permittees shall install, operate, and maintain any combination of Certified Full Capture Systems, other treatment controls, and institutional Controls to achieve 40 percent trash reduction of determined locations or land uses that generate substantial amounts of trash.

2. Second Milestone. Within seven (7) years of the effective date of this Order or the effective date of Designation, New Traditional Track 1 Permittees shall install Certified Full Capture Systems at 70 percent or more of the Priority Land Use area. New Non-Traditional Track 1 Permittees and New Traditional and Non-Traditional Track 2 Permittees shall address 70 percent of selected area, or locations and land use area generating substantial trash.

3. Third Milestone. Within ten (10) years of the effective date of this Order or the effective date of designation, New Traditional Track 1 Permittees shall install Certified Full Capture Systems at 100 percent or more of the Priority Land Use area. Traditional and Non-Traditional Track 2 Permittees shall address 100 percent of selected area, or locations and land use area generating substantial amounts of trash.

4. Track 2 Permittees may receive partial trash reduction credit for area treated by other treatment controls, and institutional Controls where trash generation has been reduced using either the On-land Visual Trash Assessment methodology or an equivalent empirical approach approved by the Regional Water Board Executive Officer.

5. Track 2 permittees shall calculate trash reduction using the method shown in section H11.

6. New Permittees may request approval of alternative first and second Trash Reduction Milestones for review and approval by the Regional Water Board Executive Officer. Requests shall include justification. Upon approval, Permittees shall comply with the approved alternative milestones.

H14. TRASH REDUCTION MILESTONES FOR NEW REGULATED LAND USES

New Regulated Land Uses must be in compliance with the requirements of this Order within five years unless an alternative time schedule order, not to exceed 10 years, is established or approved by the applicable Regional Water Board Executive Officer.

H15. INSPECTION AND MAINTENANCE REQUIREMENTS

Permittees shall ensure that Certified Full Capture Systems are inspected and maintained at a frequency sufficient to maintain design hydraulic capacity to trap trash for peak flow rates as described in section H4 during any storm event. Permittees shall also inspect and maintain other treatment controls and institutional controls that achieve Full Capture System Equivalency. Inspections and maintenance requirements may be incorporated into a Permittee's existing inspection and maintenance program.

1. General Inspection and Maintenance Requirements.

   Permittees shall:

   a. Develop an individual inspection and maintenance schedule appropriate for each Certified Full Capture System that ensures the Certified Full Capture System maintains its design treatment capacity to trap trash for peak flow rates, as described in section H4.

   b. Adjust the inspection and maintenance schedule for any Certified Full Capture System based on information gained from inspections (described in section H15) to maintain trash treatment capacity for peak flow rates as described in sections H4; and

c. Include the inspection and maintenance schedule for each Certified Full Capture Systems in the Trash Implementation Inventory.

2. Certified Full Capture System Minimum Inspection and Maintenance Requirements.

The minimum inspection and maintenance requirements for each Certified Full Capture System are as follows:

a. Track 1 Permittees shall conduct inspections at least twice per reporting year at all locations and perform maintenance as needed. The first inspection and maintenance shall be scheduled within two months prior to November 1. The second inspection and maintenance shall be scheduled during the wet season (October – May). Based on inspection and maintenance results, the Permittee shall adjust the inspection frequency as needed to ensure that each Certified Full Capture System functions as designed.

b. Track 2 Permittees shall perform inspections and conduct maintenance as needed at all locations with installed Certified Full Capture Systems at least:

1) Once per reporting year for areas with moderate trash generation, and

2) At least twice per reporting year for areas with high and very high trash generation.

c. If any Certified Full Capture System (other than systems certified as High Flow Capacity Trash Full Capture Systems by the State Water Board Executive Director) is found to have a screen that is 50 percent or more blinded, or is 50 percent full or more, full of trash and debris, then the inspection and maintenance frequency shall be increased so that the system is neither 50 percent or more blinded nor 50 percent or more full of trash and debris at the next inspection or maintenance event.

d. If any high-flow capacity Certified Full Capture Systems, as designated by the State Water Board Executive Director, is found to be failing to maintain design treatment capacity, the Permittee shall increase the inspection and maintenance frequency to ensure that the Certified Full Capture System maintains design treatment capacity prior to the next inspection and maintenance event.

3. Categorically Certified Multi-Benefit System Maintenance

a. Permittees shall inspect and maintain Categorically Certified Multi-Benefit Systems with the same frequency as described above in item 2 of section H15.

b. Permittees shall ensure trash accumulation in Categorically Certified Multi-Benefit Systems does not inhibit their design treatment capacity to infiltrate or treat stormwater at the design peak flow rate; and

c. The maintenance frequency shall be increased, as necessary, to ensure the Categorically Certified Multi-Benefit System maintains its functionality to trap trash in accordance with section H4.

4. Other Treatment Controls and Institutional Controls Maintenance

   a. Permittees shall inspect locations and areas where other treatment controls and institutional controls have been implemented with the same frequency as described in item 2 of section H15; and

   b. The maintenance frequency shall be increased, if necessary, to ensure that other treatment controls and institutional controls achieve Full Capture System Equivalency.

H16. REGIONAL BOARD DETERMINATIONS

Where the Permittee has jurisdictional authority to implement trash controls:

1. The Regional Water Board Executive Officer may determine that any land use or location generates substantial amounts of trash and may require the relevant Permittees to implement Certified Full Capture Systems or achieve Full Capture System Equivalency for the identified land uses or locations.

2. The Regional Water Board Executive Officer may require that permittees submit information about any identified land uses or locations (e.g., parks, stadia, schools, campuses, or roads leading to landfills) prior to the determination.

3. If the Regional Water Board Executive Officer determines that a land use or location generates substantial amounts of trash, the Executive Officer shall require implementation of Certified Full Capture Systems or achievement of Full Capture System Equivalency for the land uses or locations in accordance with a schedule for full compliance as deemed appropriate by the Executive Officer.

4. If the Permittee disagrees with the Executive Officer's determination or proposed schedule, the Permittee may dispute the determination to the State Water Board Executive Director in accordance with the provisions of this Order relating to Dispute Resolution.

5. Following determination and any Dispute Resolution process, if applicable, the Permittee shall include the areas in the Trash Implementation Inventory and Trash Generating Map and address these areas in the Trash Implementation Plan.

6. The Regional Water Board Executive Officer's schedule for full compliance for the specific land uses or locations (e.g., parks, stadia, schools, campuses, or roads leading to landfills) that generate substantial amounts of trash shall not be more than ten years from the date of the Regional Water Board Executive Officer's determination or finalization of the Dispute Resolution process, if applicable.

H17. ANNUAL TRASH MONITORING REPORT

The Annual Trash Monitoring Report covers the period starting with July 1 and ending on June 30 of each year. The Annual Trash Monitoring Report is due on October 15 of each year, which shall be submitted annually in accordance with the Reporting Items in section H18. All Permittees shall submit their Annual Trash Monitoring Report to SMARTS, which shall include the following information in each Annual Trash Monitoring Report:

1. All Track 1 and Track 2 Permittees shall:

    a. Annually review, update any changes, and upload to SMARTS the Trash Generation Map.[9] If no changes are required after review, the Permittee shall state this in its Annual Trash Monitoring Report. The Trash Generation Map shall indicate the year of each annual review;

    b. Include Certified Full Capture Systems installed in the previous reporting year, their GIS-mapped locations, and the individual and cumulative area addressed;

    c. Include Certified Full Capture Systems to be installed in the next reporting year, their GIS-mapped locations, and the individual and cumulative area to be addressed;

[9] See State Water Board's 13383 Water Code Order dated June 1, 2017, which required submittal of a baseline/initial Jurisdictional Map by December 1, 2018.

d. Include the total number of installed Certified Full Capture Systems and cumulative area addressed to date;

e. Include a certification that each installed Certified Full Capture System is operated and maintained to consistently achieve compliance with sections H4;

f. Include progress toward compliance with milestones described in sections H11 through H14; and

g. Include, if applicable, a description and timeline to address deficiencies in achieving the applicable trash reduction milestones

2. Additional reporting for Track 2 Permittees:

   a. Other treatment controls and institutional controls implemented in the previous reporting year, their locations, and individual and cumulative area addressed;

   b. Other treatment controls and institutional controls to be implemented in the following reporting year, their locations, and individual and cumulative area to be addressed;

   c. Total area addressed by other treatment controls and institutional controls;

   d. The effectiveness of the implemented combinations of other treatment controls, and institutional controls in meeting Full Capture System Equivalency as required in section H10;

   e. A summary of the annual trash assessments required in H.8 including the number and dates of the annual assessments;

   f. The decrease in the amount of trash discharged from the areas where Certified Full Capture Systems, combinations of other treatment controls, and institutional controls have been implemented as compared to the previous reporting year; and

   g. Where information is readily available, the decrease in the amount of Trash in the Permittee's receiving waters from the previous year.

3. Track 2 Permittees shall include calculation results from implementing the Formula to Calculate Yearly Decrease in Trash – Track 2 Permittees, provided in section H11.

H18. SCHEDULE AND REPORTING ITEMS

The reporting year starts on July 1 and ends on June 31 of each year. October 15 of each year is the due date for submitting the Annual Monitoring Report and Trash Generation Map to SMARTS. Other due dates are listed below as follows:

1. Track Selection Schedule

   a. **Within 60 days of enrollment** under this Order, New Permittees listed in Order Attachment B shall select and upload to SMARTS a letter documenting their selected compliance track (i.e., Track 1 or Track 2). It shall be retained according to the Records Retention requirements in section H19.

   b. **Within 60 days of designation**, New Permittees designated after the effective date of this Order shall submit a letter to SMARTS identifying its selected compliance track (either Track 1 or Track 2). It shall be retained according to the Records Retention requirements in section H19.

   c. Track change may be submitted to SMARTS according to section H5. It shall be retained according to the Records Retention requirements in section H19.

2. Trash Assessment Plan: Track 2 and Non-Traditional Track 1 Permittees

   Permittees shall retain their Trash Assessment Plan according to the Records Retention requirements in H19.

   a. **Within 90 days of the effective date** of this Order, each Non-Traditional Renewal Permittee selecting Track 1 shall prepare its Trash Assessment Plan. Thereafter the Trash Assessment Plan shall be updated each reporting year as necessary.

   b. **Within 90 days of designation**, New Permittees selecting Track 2 and New Non-Traditional Permittees selecting Track 1 shall prepare their Trash Assessment Plan. Thereafter the Trash Assessment Plan shall be updated each reporting year as necessary.

3. Trash Implementation Inventory: Acres Treated and Acres Remaining

   The Trash Implementation Inventory shall be retained according to the Record Retention requirements in section H19.

   a. **Within 180 days of the effective date** of this Order, Renewal and New Permittees listed in Order Attachment B shall prepare an initial Trash Implementation Inventory.

b. **Within 180 days of designation**, New Permittees designated after the effective date of this Order shall prepare an initial Trash Implementation Inventory.

4. Trash Generation Maps

a. **Within 180 days of the effective date of this Order**, Renewal and New Permittees listed in Order Attachment B shall prepare and submit their Trash Generation Map to SMARTS. Thereafter, the Permittees shall submit annual updates to Smarts by October 15.

b. **Within 180 days of designation,** New Permittees designated after the effective date of this Order shall prepare and submit an initial Trash Generation Map to SMARTS. Thereafter, the Permittees shall submit annual updates to Smarts by October 15.

c. Trash Generation Maps After Changing Tracks

Within 180 days of changing Tracks, Permittees shall submit their Trash Generation Map via SMARTS. Thereafter, the Permittees shall submit annual updates to Smarts by October 15.

5. Trash Implementation Plan

Track 2 Permittees shall upload to SMARTS and thereafter retain their Trash Implementation Plan according to the Records Retention schedule in section H19.

a. **Within 180 days of the effective date** of this Order, Track 2 renewal Permittees listed in Order Attachment B shall review and update as necessary their initial Trash Implementation Plan.

1) Track 2 Renewal Permittees that have reviewed and not needed to update their initial Trash Implementation Plan submitted under the State Water Board Water Code Order 13383 shall retain their initial Trash Implementation Plan and annual updates according to the Record Retention requirements.

2) Track 2 Renewal Permittees that have revised their initial Trash Implementation Plan submitted under the State Water Board Water Code Order 13383 shall upload it to SMARTS within 180 days of the effective date of this Order. Thereafter, their Trash Implementation Plan shall be retained according to the Records Retention requirements in section H19.

b. **Within 180 days of the effective date** of this Order, new Track 2 Permittees listed in Order Attachment B shall prepare their Trash Implementation Plan and upload it to SMARTS. Thereafter, their Trash Implementation Plan shall be retained according to the Records Retention requirements in section H19.

c. **Within 180 days of designation**, New Track 2 permittees designated by the State Water Board after the effective date of this Order, shall prepare and submit their Trash Implementation Plan to SMARTS. Thereafter, their Trash Implementation Plan shall be retained according to the Records Retention requirements in section H19.

6. Notice to Vector Control

   By October 15 of each year, all Permittees shall annually provide their local vector control agencies with the name and location of existing Certified Full Capture Systems and proposed Certified Full Capture Systems that will be installed during the following reporting year.

7. **By October 15 of each year**, Permittees shall upload their Annual Trash Monitoring Report via SMARTS per the schedule in this Attachment.

H19. RECORD RETENTION

The Permittees shall retain records required under this Attachment and as required under Order section 16 (Standard Provisions – Records). Upon request by the State and/or Regional Water Board, Permittees shall make records available. All Permittees shall retain the following records, as applicable for their choice of Track 1 or Track 2:

1. Current Trash Implementation Inventory;

2. Initial, annually updated, and current Trash Generation Maps;

3. Current Trash Implementation Plan;

4. Trash Assessment Plan;

5. Inspection and maintenance records including any inspection and maintenance schedules as required in H15; and

6. All supporting calculations, background information, and reference information used to support the development and assessment of the above.