

Attachment A to Resolution No. R4-2018-XXX

**Amendment to the Water Quality Control Plan – Los Angeles Region to Revise the
Revolon Slough and Beardsley Wash Trash TMDL**

Amendments:

Table of Contents

Add:

Chapter 7. Total Maximum Daily Loads (TMDLs)

7-24 Revolon Slough and Beardsley Wash Trash TMDL

List of Figures, Tables and Inserts

Add:

Chapter 7. Total Maximum Daily Loads (TMDLs)

Tables

7-24 Revolon Slough and Beardsley Wash Trash TMDL

7-24.1. Revolon Slough and Beardsley Wash Trash TMDL, Elements

7-24.2a. Revolon Slough and Beardsley Wash Trash TMDL, Implementation
Schedule – Point Sources

7-24.2b. Revolon Slough and Beardsley Wash Trash TMDL, Implementation
Schedule – Minimum Frequency of Assessment and Collection Program

**Chapter 7. Total Maximum Daily Loads (TMDLs)
Revolon Slough and Beardsley Wash Trash TMDL**

This TMDL was adopted by:

The Regional Water Quality Control Board on June 7, 2007.

This TMDL was approved by:

The State Water Resources Control Board on December 4, 2007.

The Office of Administrative Law on January 24, 2008.

The U.S. Environmental Protection Agency on February 27, 2008.

This TMDL was revised by:

The Regional Water Quality Control Board on XXXX.

The revisions were approved by:

The State Water Resources Control Board on XXXX.

The Office of Administrative Law on January XXXX.

The U.S. Environmental Protection Agency on XXXX.

The elements of the TMDL are presented in Table 7-24.1 and the Implementation Plan in
Tables 7-24.2a and 7-24.2b.

Table 7-24.1 Revolon Slough and Beardsley Wash Trash TMDL: Elements

Element	Revolon Slough and Beardsley Wash Trash TMDL
Problem Statement	Current levels of trash discharges into in Revolon Slough and Beardsley Wash violate-exceed water quality objectives and are impairing beneficial uses. Relevant water quality objectives include <u>those for “Floating Material” and “Solid, Suspended, or Settleable Materials.”</u> The following designated beneficial uses are impacted by trash: water contact recreation (REC1); non-contact water recreation (REC2); warm freshwater habitat (WARM); wildlife habitat (WILD); wetland habitat (WET).
Numeric Target (interpretation of the narrative water quality objective, used to calculate the load allocations)	Zero trash in Revolon Slough and Beardsley Wash, and in the channel. Zero is defined as (1) for nonpoint sources, no trash immediately following each assessment and collection event consistent with an established Minimum Frequency of Assessment and Collection Program (MFAC Program). The MFAC Program is established at an interval that prevents trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections, and (2) for point sources, zero trash discharged into Revolon Slough and Beardsley Wash, shoreline and channel.
Source Analysis	Litter from adjacent land areas, roadways and direct dumping and deposition are sources of trash to Revolon Slough and Beardsley Wash. Point sources such as storm drains are also sources of trash discharged to Revolon Slough and Beardsley Wash.
Loading Capacity	Zero, as defined in the Numeric Target.
Waste Load Allocations (for point sources)	Waste Load Allocations (WLAs) are assigned to the <u>California Department of Transportation (Caltrans); Permittees and Co-Permittees of the Ventura County Municipal Separate Storm Sewer System (MS4) Permit, including Ventura County, the Ventura County Watershed Protection District, the City of Camarillo, and the City of Oxnard;</u> and local landowners. <u>Additional responsible entities may be identified in the future under Phase 2 of the USEPA Stormwater Permitting Program, or other applicable regulatory programs.</u> WLAs are zero trash <u>discharged from MS4s into Revolon Slough and Beardsley Wash.</u> WLAs may be issued to additional responsible jurisdictions in the future under Phase 2 of the US EPA Stormwater Permitting Program, or other applicable regulatory programs.
Load Allocations (for nonpoint sources)	Load Allocations (LAs) are assigned to land owners and agencies in the vicinity of Revolon Slough and Beardsley Wash, including the County of Ventura, Ventura County Watershed Protection District, City of Camarillo, City of Oxnard, and Agricultural entities in the Revolon Slough and Beardsley Wash subwatersheds. LAs are zero trash, <u>defined as no trash immediately following each assessment and collection event consistent with an established Minimum Frequency of Assessment and Collection Program (MFAC Program) where the MFAC Program is established at an interval that prevents trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections.</u> LAs may be issued to a <u>Additional responsible jurisdictions-entities may be identified</u> in the future under applicable regulatory programs.

<p>Implementation</p>	<p>Implementation of the trash TMDL for Revolon Slough and Beardsley Wash includes structural and non-structural best management practices (BMPs) and a program of minimum frequency of assessment and collection (MFAC) <u>Programs</u> to address point and nonpoint trash sources.</p> <p>Point Sources</p> <p>WLAs shall be implemented through MS4 storm water permits and via the authority vested in the Executive Officer by sections <u>13267 and/or 13383</u> of the Porter-Cologne Water Quality Control Act (Water Code section 13000 et seq.).</p> <p><u>Ventura County MS4 Permittees</u></p> <p><u>Ventura County MS4 Permittees</u>If point source dischargers may comply with WLAs by (1) implementing installing an Executive Officer-certified full capture systems on conveyances that <u>collect drainage from priority land use areas as defined in Part 1 Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California ("Trash Amendments")</u> <u>and</u> discharge to Revolon Slough and Beardsley Wash through a progressive implementation schedule of full capture devices, they will be deemed in compliance with the WLA.</p> <p>In certain circumstances (if approved by the Executive Officer), point source dischargers may alternatively or (2) comply with WLAs by implementing an MFAC program for minimum frequency of assessment and collection in conjunction with best management practices (MFAC/BMPs). Irrespective of these two general approaches to implementing the WLAs, Ventura County MS4 Permittees may comply with the WLAs in any lawful manner to achieve full capture equivalency as defined in the Trash Amendments.</p> <p>1. Compliance<u>Ventura County MS4 Permittees may comply</u> with the final WLA may be achieved through by installing an adequately sized and maintained full capture systems, once certified by the Executive Officer of the Los Angeles Water Board or the Executive Director of the State Water Board has certified that the system meets the following minimum criteria. A full capture system, at a minimum, consists of any device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one-year, one-hour, storm in the sub-drainage area. The rational equation is used to compute the peak flow rate: $Q = C \times I \times A$, where Q = design flow rate (cubic feet per second, cfs); C = runoff coefficient (dimensionless); I = design rainfall intensity (inches per hour); and A= subdrainage area (acres).</p>
------------------------------	--

~~Point sources~~ Ventura County MS4 Permittees that choose to comply via a installation of full capture systems, must demonstrate a phased implementation ~~of full capture devices in priority land use areas~~ over an 8-year period until the final WLA of zero is attained. Zero will be deemed to have been met if full capture systems have been installed on all conveyances addressing priority land use areas that discharging e to Revolon Slough and Beardsley Wash.

~~Irrespective of whether point sources employ a full capture system, they may comply with the WLA in any lawful manner.~~

2. Ventura County MS4 Permittees may propose Compliance through an MFAC program in conjunction with BMPs ~~may be proposed~~ to the Regional Los Angeles Water Board for incorporation into the relevant NPDES permit. The MFAC/BMP program must include requirements equivalent to those ~~described in the Conditional Waiver~~ set forth ~~below~~ for Nonpoint Sources. Agencies that are responsible for both point and nonpoint sources will be deemed in compliance with both the WLAs and LAs if an MFAC/BMP program, approved by the Executive Officer, is implemented.

Caltrans

Caltrans may comply with WLAs by installing, operating, and maintaining any combination of full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls for all storm drains that capture runoff from significant trash generating areas to achieve full capture equivalency as defined by the Trash Amendments.

Nonpoint Sources

LAs shall be implemented through ~~either (1) a conditional waiver from of~~ waste discharge requirements, ~~or (2) an alternative program implemented through~~ waste discharge requirements, ~~or an individual waiver or~~ another appropriate order of the Regional Los Angeles Water Board in accordance with the statewide Policy for Implementation and Enforcement of the Nonpoint Source Pollution Control Program.

(1) Non-point source dischargers may achieve compliance with the LAs by implementing an MFAC/BMP program approved by the Executive Officer. Responsible jurisdictions that are responsible for both point and nonpoint sources will be deemed in compliance with both the WLAs and LAs if an MFAC/BMP program, approved by the Executive Officer, is implemented.

~~1) Conditional Waiver: Pursuant to Water Code section 13269, waste discharge requirements are waived for any responsible jurisdiction that implements a~~ The MFAC/BMP Program ~~which shall~~, to the satisfaction of the Executive Officer, meets the following criteria:

- a) The MFAC/BMP Program includes an adequate initial minimum frequency of trash assessment and collection

and suite of structural and/or nonstructural BMPs. The MFAC/BMP program shall include collection and disposal of all trash found in the water and on the shoreline. Responsible ~~jurisdictions-entities~~ shall implement an initial suite of BMPs based on current trash management practices in land areas that are found to be sources of trash to Revolon Slough and Beardsley Wash. For Revolon Slough and Beardsley Wash, the initial minimum frequency shall be set as follows:

1. Monthly on Revolon Slough and its adjacent land areas at Wood Road (the end of the concrete-lined channel), as defined in the Executive Officer approved Trash Monitoring and Reporting Plan (TMRP).
2. Bi-monthly on the water, shoreline and channels of Beardsley Wash and Revolon Slough in areas under the jurisdiction of the County of Ventura, and agricultural lands.
3. Monthly assessment and collection at outlets on north side of Camarillo Hills Drain between Las Posas Rd. and Wood Rd.
4. Monthly on Las Posas Estate Drain between Central Ave. and the 101 Freeway.
5. Monthly at the inlet to the North Ramona Place Drain debris basin.
6. Monthly at inlet to Beardsley Wash at Wright Road and the adjacent land areas, as defined in the Executive Officer approved TMRP.
- ~~7. Monthly on a rotating basis of the following channels from the City of Oxnard (i.e. one drain cleaned per month):~~
 - ~~a. Fifth Street Drain from Del Norte Blvd. to Revolon Slough~~
 - ~~b. Sturgis Drain from Oxnard City Limits to Revolon Slough~~
 - ~~c. Nyeland Drain from Center Drive to Friedrich Rd.~~
 - ~~d. Del Norte Drain from Del Norte Blvd. to Revolon Slough~~
- ~~8.7.~~ All Drains listed above will also be cleaned within one week of every storm event greater than 1 inch of rain.
- b) The MFAC/BMP Program includes reasonable assurances that it will be implemented by the responsible ~~jurisdiction~~entities.
- c) The ~~MFAC/BMP Program includes a TMRP-Trash Monitoring and Reporting Plan, as described below,~~ and a requirement that the responsible ~~jurisdictions-entities~~ will self-report any non-compliance with its provisions. The results and report of the ~~Trash Monitoring and Reporting Plan~~TMRP must be submitted to ~~Regional~~Los Angeles Water Board on an annual basis.
- d) MFAC protocols may be based on SWAMP protocols for rapid trash assessment, or

alternative protocols proposed by dischargers and approved by the Executive Officer.

- e) Implementation of the MFAC/BMP program should include a Health and Safety Plan to protect personnel. The MFAC/BMP program shall not require responsible ~~jurisdictions~~ entities to access and collect trash from areas where personnel are prohibited.

~~Compliance for Agricultural Sources~~

~~For agricultural dischargers, the Conditional Waiver for Irrigated Lands will be revised to include a MFAC/BMP program for enrollees in the Revolon Slough and Beardsley Wash subwatershed.~~

The Executive Officer may approve or require a revised assessment and collection frequency ~~and definition of the critical conditions under the waiver:~~

- (a) To prevent trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections;
- (b) To reflect the results of trash assessment and collection;
- (c) If the amount of trash collected does not show a decreasing trend, where necessary, such that a shorter interval between collections is warranted; or
- (d) If the amount of trash collected is decreasing such that a longer interval between collections is warranted.

With regard to (a), (b) or (c), above, the Executive Officer is authorized to allow responsible entities to implement additional structural or non-structural BMPs in lieu of modifying the monitoring frequency.

At the end of the implementation period, a revised MFAC/BMP program may be required if the Executive Officer determines that the amount of trash accumulating between collections is causing nuisance or otherwise adversely affecting beneficial uses.

~~With regard to (a), (b) or (c), above, the Executive Officer is authorized to allow responsible jurisdictions to implement additional structural or non-structural BMPs in lieu of modifying the monitoring frequency.~~

~~Any waivers implementing the TMDL shall expire pursuant to Water Code section 13269 five years after the effective date of this TMDL, unless reissued. The Regional Board may reissue this waiver through an order consistent herewith, instead of readopting these regulatory provisions.~~

(2) Alternatively, responsible ~~jurisdictions~~ entities may propose, or the Regional Los Angeles Water Board may impose, an alternative program ~~which would be implemented through waste discharge requirements, an individual waiver, a cleanup and abatement order, or any other appropriate order or orders,~~ provided the program is consistent with the assumptions and

	<p>requirements of the reductions described in Table 7-24.2b, below.</p> <p>Within six months of the effective date of this TMDL, the Executive Officer shall require responsible jurisdictions to submit either a notice of intent to be regulated under the conditional waiver with their proposed MFAC/BMP Program and Trash Monitoring and Reporting Plan (TMRP), or a report of waste discharge.</p>
Monitoring and Reporting Plan	<p>Responsible jurisdictions <u>and entities</u> will develop a TMRP for Executive Officer approval that describes the methodologies that will be used to assess and monitor trash in Revolon Slough and Beardsley Wash and/or within responsible jurisdiction land areas. The TMRP shall include a plan to establish the trash Baseline WLAs for non-Caltrans entities, or an alternative to the default trash baseline for Caltrans to prioritize installation of full capture devices. The default trash baseline WLA for Caltrans is 6677.4 gallons per square mile per year.</p> <p>Requirements for the TMRP shall include, but are not limited to, assessment and quantification of trash collected from the surfaces and shoreline of Revolon Slough and Beardsley Wash or from responsible jurisdiction land areas. The monitoring plan shall provide details of the frequency, location, and reporting of trash monitoring. Responsible jurisdictions <u>and entities</u> shall propose a metric (e.g., weight, volume, pieces of trash) to measure the amount of trash in Revolon Slough and Beardsley Wash and on the land area surrounding Revolon Slough and Beardsley Wash, as defined in the Executive Officer approved TMRP.</p> <p>The TMRP shall include a prioritization of areas that have the highest trash generation rates. The TMRP shall give preference to this prioritization when scheduling the installation of full capture devices, BMPs, or trash collection programs.</p> <p>The TMRP shall also include an <u>a process for</u> evaluation of effectiveness of the MFAC/BMP program to prevent trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections, proposals to enhance BMPs, and a revised MFAC for Executive Officer review.</p> <p>Responsible jurisdictions <u>and entities</u> may coordinate their TMRP activities for Revolon Slough and Beardsley Wash.</p>
Margin of Safety	Zero is a conservative numeric target which contains an implicit margin of safety.
Seasonal Variations and Critical Conditions	Discharge of trash from the conveyances point sources occurs primarily during or shortly after a major rain event. Discharge of trash from nonpoint sources occurs during all seasons, but can be increased during or shortly after high wind events, which are defined as periods of wind advisories issued by the National Weather Service.

**Table 7-24.2a Revolon Slough and Beardsley Wash Trash TMDL: Implementation
Schedule
Point Sources**

Task No.	Task	Responsible Jurisdiction	Date
1	Submit Trash Monitoring and Reporting Plan, including a plan for defining the trash baseline WLA and a proposed definition of "major rain event".	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	6 months from effective date of TMDL. If a plan is not approved by the Executive Officer within 9 months, the Executive Officer will establish an appropriate monitoring plan. <u>September 6, 2008</u>
2	Implement Trash Monitoring and Reporting Plan.	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	6 months from receipt of letter of approval from <u>Regional Los Angeles</u> Board Executive Officer, or the date a plan is established by the Executive Officer.
3	Submit results of Trash Monitoring and Reporting Plan, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other measures to attain the required trash reduction.	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	2 years from receipt of letter of approval for the Trash Monitoring and Reporting Plan from <u>Regional Los Angeles</u> Board Executive Officer.
4	Installation of Full Capture Systems or other measures to achieve 20% reduction of trash from Baseline WLA*.	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	Four years from effective date of TMDL. <u>March 6, 2012</u>
5	Installation of Full Capture Systems or other measures to achieve 40% reduction of trash from Baseline WLA*.	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	Five years from effective date of TMDL. <u>March 6, 2013</u>

6	Evaluate the effectiveness of Full Capture Systems or other measures, and reconsider the WLA*.	Regional <u>Los Angeles</u> Board.	Five years from effective date of TMDL. <u>March 6, 2013</u>
7	Installation of Full Capture Systems or other measures to achieve 60% reduction of trash from Baseline WLA*.	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	Six years from effective date of TMDL. <u>March 6, 2014</u>
8	Installation of Full Capture Systems or other measures to achieve 80% reduction of trash from Baseline WLA*.	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	Seven years from effective date of TMDL. <u>March 6, 2015</u>
9	Installation of Full Capture Systems or other measures to achieve 100% reduction of trash from Baseline WLA*.	City of Camarillo; City of Oxnard; Ventura County Watershed Protection District; Ventura County; Caltrans; Local land owners with conveyances	Eight years from effective date of TMDL. <u>March 6, 2016</u>

~~* Compliance with percent reductions from the Baseline WLA will be assumed wherever full capture systems are installed in corresponding percentages of the conveyance discharging to Revolon Slough and Beardsley Wash. Installation will be prioritized based on the greatest point source loadings.~~

**Table 7-24.2b Revolon Slough and Beardsley Wash Trash TMDL:
Implementation Schedule
Minimum Frequency of Assessment and Collection Program ***

Task No.	Task	Responsible JurisdictionEntities	Date
4	Conditional Waiver in effect.	City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners with conveyances	Regional Board adoption of TMDL.
21	Submit Notice of Intent to Comply with Conditional Waiver of Discharge Requirements, including MFAC/BMP Program and Trash Monitoring and Reporting Plan.	City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners with conveyances	Six months from TMDL effective date. <u>September 6, 2008</u>
32	Implement MFAC/BMP Program.	City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners with conveyances	Six months from receipt of Notice of Acceptance <u>approval</u> of TMRP from Regional <u>Los Angeles</u> Board Executive Officer.
43	Submit annual TMRP reports including proposal for revising MFAC/BMP for Executive Officer approval.	City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners with conveyances	Two years from effective date of TMDL <u>March 6, 2010</u>, and annually thereafter.
54	Reconsideration of Trash TMDL based on evaluation of effectiveness of MFAC/BMP program.	Regional <u>Los Angeles</u> Board.	Five years from effective date of TMDL <u>March 6, 2013</u>
65	Submit revised MFAC/BMP Program and Trash Monitoring and Reporting Plan	City of Camarillo; City of Oxnard; Ventura County; Agricultural dischargers; Ventura County Watershed Protection District; Caltrans; Local land owners	Three months from the effective date of the revisions to the TMDL

* At Task ~~32~~, all ~~R~~responsible ~~Jurisdictions~~ entities must be attaining the zero trash target after each required trash assessment and collection event. At Task ~~43~~, all ~~R~~responsible ~~Jurisdictions~~ entities must demonstrate full compliance and attainment of the zero trash target's requirement that trash is not accumulating in deleterious amounts between the required trash assessment and collection events. Based on ~~R~~responsible ~~Jurisdiction~~ entities' monitoring reports, the Executive Officer may adjust the minimum frequency of assessment and collection as necessary to ensure compliance between the required trash assessment and collection events.