# Amendment to the Water Quality Control Plan – Los Angeles Region to Incorporate the

# Total Maximum Daily Load for Algae, Eutrophic Conditions, and Nutrients In the Ventura River and its Tributaries

Adopted by the California Regional Water Quality Control Board, Los Angeles Region on [Insert date].

### Amendments:

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- 7-35 Ventura River and Tributaries Algae, Eutrophic Conditions, and Nutrients
  TMDI
- 7-35.1. Ventura River and Tributaries Algae, Eutrophic Conditions, and Nutrients
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# Chapter 7. Total Maximum Daily Loads (TMDLs) Summaries Add:

7-35 Ventura River and Tributaries Algae, Eutrophic Conditions, and Nutrients TMDL

This TMDL was adopted by:

The Regional Water Quality Control Board on [Insert date].

This TMDL was approved by:

The State Water Resources Control Board on [Insert date].

The Office of Administrative Law on [Insert date].

The U.S. Environmental Protection Agency on [Insert date].

This TMDL is effective on [Insert Date].

The elements of the TMDL are presented in Table 7-35.1 and the Implementation Plan in Table 7-35.2.

Table 7-35.1. Ventura River and Tributaries Algae, Eutrophic Conditions, and Nutrients TMDL: Elements

TMDL Element	Regulatory Provisions
Problem Statement	The Ventura River Estuary and Reaches 1 and 2 are on the Clean Water Act (CWA) section 303(d) list as impaired for algae and eutrophic conditions. San Antonio Creek and Cañada Larga are on the CWA section 303(d) list as impaired for nitrogen and dissolved oxygen, respectively. Recent data confirm these impairments and demonstrate additional impairments for low dissolved oxygen in the Estuary, San Antonio Creek, and Reaches 1-4. The algae and nutrient-related impairments are caused by excessive loading of nutrients, particularly nitrogen and phosphorus, to Ventura River and its tributaries. The water quality impairments due to eutrophication and increased nutrient loading occur during the growing season. For purposes related to this TMDL, the growing season is defined as occurring from May 1 to September 30.
	Applicable water quality objectives for this TMDL are the narrative water quality objectives for biostimulatory substances and the numeric water quality objectives for dissolved oxygen (DO) and pH contained in Chapter 3.
	Nutrient loading and the resulting ecological responses in the Ventura River, including the Estuary, and its tributaries result in impairments of beneficial uses associated with recreation activities (water contact and non-contact) and aquatic life (warm and cold freshwater habitat; estuarine and wetland habitat; rare, threatened or endangered species; migration of aquatic organisms; spawning, reproduction, and/or early development). The most sensitive beneficial use is the cold water aquatic habitat use and the associated migratory and spawning and early development uses. The Ventura River and its tributaries are home to the Southern California Steelhead, which is an endangered species.

TMDL Element	Regulatory Provisions		
Numeric Targets	The DO and pH numeric targets are set equal to their numeric water quality objectives in Chapter 3 of the Basin Plan. The numeric targets for algal and phytoplankton biomass and percent cover are established as a numeric interpretation of the water quality condition that will demonstrate attainment of the narrative water quality objective for biostimulatory substances contained in Chapter 3.  Numeric targets to interpret narrative water quality objectives are based on the California Nutrient Numeric Endpoints (NNE) approach, developed by USEPA Region 9 and the State and Regional Water Quality Control Boards.		
	Indicator	Numeric Target	Water body
	Total Algal Biomass	150 mg/m <sup>2</sup> chlorophyll <i>a</i> as seasonal average	Ventura River and Tributaries
	Macroalgal Cover (attached & unattached)	≤ 30 percent as seasonal average	Ventura River and Tributaries
	Phytoplankton Biomass	20 μg/L chlorophyll <i>a</i> as seasonal average	Estuary (shallow subtidal area)
	Macroalgal Cove	≤ 15 percent as seasonal average  A verage  A verag	Estuary (intertidal and shallow subtidal areas)
	Dissolved Oxygen	≥ 7 mg/L as a daily minimum	Ventura River, Tributaries and Estuary
	рН	6.5 – 8.5 (instantaneous value)	Ventura River, Tributaries, and Estuary
	period for algal biomass Indicators are averaged Bioassessment SOP 02 percent cover at 10 rand See methods used in th California Bight 2008 Re	over indicator targets apply during the growin and percent cover is the growing season of over a sampling reach as required by the SN. Estuary macroalgal cover is measured usidom points along each transect. Results are e Bight '08 Estuarine Eutrophication Assessing along Monitoring Program: Estuarine Eutropr Research Project. Costa Mesa, CA).	May 1 to September 30th. River  NAMP monitoring protocal ing 3 transects and evaluating reported as a transect average. ment (McLaughlin K et al. Southern
Source	Point sources:		
Analysis	(MS4) contributes a tributaries (21.3% ir waste water treatme	lischarged via the municipal se large percentage of the nutrients of dry weather and 28.3% in we ent plant contributes a large port a smaller portion in wet weather	s to the Ventura River and its et weather). The Ojai Valley tion of nutrient loading in dry
	Nonpoint sources:		
	dry weather (33.5% significant source of nutrients in dry weat of the annual nutri	d agricultural land uses contributed) and wet weather (36.1%). In nutrients in wet weather (19.1 her (7.6%). Septic systems are ent load. Groundwater dischatter surface are responsible for a possible f	Open space loading is a %) and a smaller source of estimated to contribute 4.7% rge and direct atmospheric

TMDL Element	Regulatory Provisions
Linkage Analysis	The critical condition is dry weather and the linkage analysis for both the Ventura River and Estuary is for dry-weather conditions. Nutrients are loaded from the watershed to the Ventura River and Estuary in both dry and wet weather, but the nutrients loaded in the dry season are predominately responsible for the algae, eutrophic conditions, and nutrient impairments in the Ventura River and Estuary.
	Linkage analysis for the river
	The linkage analysis for the river is based on the River and Stream Water Quality Model (QUAL2K). QUAL2K predicts the nutrient concentrations and algal biomass in the various reaches of the Ventura River based on an estimate of watershed-based loading. The results of the model are used to determine allowable in-stream nutrient concentrations to meet algal biomass targets and to evaluate various source reduction scenarios to set dry-weather load and waste load allocations.
	Linkage analysis for the Estuary
	The linkage analysis for the Estuary is based on two lines of evidence that establish the relationship between nutrient loading to the Estuary and the resulting nutrient concentrations and algal biomass in the Estuary.
	The first approach uses the NNE BATHTUB spreadsheet modeling tool to establish the linkage between nutrient loading to the Estuary and the predicted water quality response, assuming that the open water portion of the Estuary, formed by the closing of the berm in the late summer and early fall, acts like a freshwater reservoir. The second approach uses empirical relationships between nutrient loading and algal biomass (peak macroalgae biomass and annual average chlorophyll a) in estuaries developed as part of a 2008 Southern California Bight Regional Monitoring Program study.
	Both approaches predict that the current nutrient loading to the estuary will attain the phytoplankton numeric target. Moreover, the watershed loading reductions required to protect the river will reduce nutrient concentrations delivered to the estuary and ensure attainment of numeric targets and protection of beneficial uses.
Allocations	Waste load allocations (WLAs) and load allocations (LAs) addressing point and nonpoint sources of nutrients are assigned to discharges to the Ventura River watershed. Because the critical condition for this TMDL is dry weather, and it is the dry-weather loading that results in water quality impairments, the allocations are primarily focused on dry-weather nutrient loading reductions. However, wetweather WLAs are assigned as well.

# TMDL Element Regulatory Provisions

# **Dry-weather Allocations**

Dry weather WLAs and LAs for total nitrogen (TN) are as follows:

Source Type*	Existing Dry- Weather TN Load (lb/total dry days)	Allowable Dry- Weather TN Load (lb/total dry days)	Percent TN Reduction
Ventura MS4	18,480	9,240	50%
Caltrans	701	350	50%
Ojai Valley WWTP	33,984	17,397	49%
Agriculture	10,389	5,194	50%
Horses/Intensive Livestock	19,860	199	99%

<sup>\*</sup>Does not include WLAs for onsite wastewater treatments systems (OWTS), general stormwater permits, grazing activities, and other NPDES permits. These WLAs follow in subsequent tables/text.

Dry weather WLAs and LAs for total phosphorus (TP) are as follows:

Source Type*	Existing Dry- Weather TP Load (lb/total dry days)	Allowable Dry- Weather TP Load (lb/total dry days)	Percent TP Reduction
Ventura MS4	172	86.2	50%
Caltrans	70.1	35.0	50%
Ojai Valley WWTP	8030	5799	28%
Agriculture	41.2	20.6	50%
Horses/Intensive Livestock	4700	47	99%

<sup>\*</sup>Does not include WLAs for OWTS, general stormwater permits, grazing actives and other NPDES permits. These WLAs follow in subsequent tables/text.

Dry-weather WLAs for Ventura County MS4 and Caltrans shall be expressed as daily loads based on an estimated 331 dry-weather days per year.

Dry-weather WLAs for Ventura County MS4 and Caltrans are as follows:

Source Type	Dry-Weather WLA (lb/day)
Dry-weather WLAs for Ventura MS4	56
Dry-weather WLAs for Caltrans	2.1

The dry-weather LA for grazing activities is equal to a 10% percent reduction of the existing TN and TP load. The existing load will be quantified as part of management plans required to implement the TMDL.

# **TMDL Element Regulatory Provisions** The dry-weather WLAs for the general industrial and construction stormwater permittees are equal to the in-stream nutrient concentrations required to meet algal biomass numeric targets. Dry-weather WLA for general industrial and construction stormwater permittees are as follows: Permittee TP (mg/L) TN (mg/L) General Industrial 1.15 0.115 Stormwater Permittees General Construction 1.15 0.115 Stormwater Permittees Applied as an annual dry-weather average. Dry- and Wet-Weather LAs for OWTS LAs for OWTS are equal to 7.478 pounds TN per year based on a required 50% reduction in loading. The LAs apply in dry and wet weather. No LAs are assigned to OWTS for TP. Dry- and Wet-weather WLAs for Other NPDES permittees Dry-weather WLAs for other NPDES permittees are equal to the in-stream nutrient concentrations required to meet algal biomass numeric targets of 1.15 mg/L TN and 0.115 mg/L TP. Wet-weather allocations are set to attain sitespecific nitrogen water quality objectives from Table 3-8. There are no sitespecific objectives for Reach 1 or the Estuary, nor are there any "Other NPDES permittees" that discharge to Reach 1 or the Estuary. Thus, there are no wetweather WLAs assigned to Other NPDES permittees for Reach 1 or the Estuary. Wet-weather Allocations Wet-weather allocations for stormwater, agriculture, and horse/livestock sources are set to attain site-specific water quality objectives from Table 3-8 of the Basin Plan, provided in the table below. There are no site-specific objectives for Reach 1 or the Estuary. For Reach 1 and the Estuary, Wet-weather WLAs for stormwater sources are equal to existing water quality in stormwater discharges (maximum TN = 4.6 mg/L) and LAs for agriculture and horse/livestock sources are equal to water quality benchmarks of 10 mg/L nitrate-N + nitrite-N in the Agriculture Waiver.

TMDL Element	Regulatory Provisions			
	Wet-weather allocation are as follows:	ons for stormwater,	agriculture, and ho	rse/livestock sources
		Reach	Nitrate-N + Nitrite- N (mg/L)	
		Estuary	*	
		Reach 1	*	
		Reach 2	10	
		Cañada Larga	10	
		Reach 3	5	
		San Antonio Creek	5	
		Reach 4	5	
		Reach 5	5	
	*WLAs for stormwater horse/livestock sources			As for agriculture and
		ng performance wa		existing performance 90 <sup>th</sup> percentile of the
	W	et-weather WLAs fo	or Ojai Valley WWT	P
		TN (mg/L)	TP (mg/L)	
		7.6	2.6	
Margin of Safety	biomass target, the biomass in freshwate based nutrient loadir receiving water. The margin of safety that watershed-based nut the difference between	relationship between river systems and the modelse areas of uncertained includes conservation to adding, and are the model-precent of reduction servers.	veen nutrient concernd estuaries, the estuaries, the estuaries, the estuaries and reducted water quality are addressed at the explicit margin of dicted maximum corscenarios and the	selection of the algal entrations and algal timate of watershed- ality conditions in the with both an implicit ade when estimating safety calculated as accentration in-stream desired in-stream das eight percent.
Seasonal Variations and Critical Conditions	biostimulatory substathe Ventura River, the season. Nutrients are tributaries, and the Ein the dry season conditions, and nutried during the winter in cofactors in the winter algal growth in the	ances water quality he Estuary and its e loaded from the stuary in both dry a are predominately ent impairments. No nonths are sufficie er, such as greate winter. Also, the	r objective during the tributaries. The criwatershed to the Vand wet weather, but responsible for toutrient concentration ent to support algar flow and lower tetypical seasonal support support algar the support algar the support algar flow and lower tetypical seasonal support support algar the support algar flow and lower tetypical seasonal support algar the support alg	exceedances of the e growing season in tical condition is dry centura River and its the nutrients loaded he algae, eutrophic s present in the river al growth; however, emperatures, mitigate accession of primary aquatic plants. The

TMDL Element	Regulatory Provisions
	watershed nutrient wet-weather loads are generally delivered directly to the ocean and thus do not contribute to exceedance of the biostimulatory substances objective in the river or Estuary, which occurs during the growing season. Nonetheless, to protect water quality year-round, wet-weather WLAs are assigned to meet water quality objectives and/or maintain existing discharge quality.
Monitoring	The TMDL monitoring program consists of three components: 1) receiving water monitoring, 2) discharge monitoring, and 3) optional special studies. All monitoring plans may be included in subsequent permits or other orders and are subject to Executive Officer approval.
	Receiving Water Monitoring
	Responsible parties (Ojai Valley Sanitary District, Ventura County Watershed Protection District, Ventura County, City of Ojai, City of Ventura, Caltrans, and agricultural dischargers) are responsible for developing and implementing a comprehensive monitoring plan to assess numeric target attainment and measure in-stream nutrient concentrations. Responsible parties are encouraged to work together to submit a joint watershed wide plan. After horse and livestock owners are covered by a regulatory mechanism to implement their assigned LAs, they shall participate in the implementation of the watershed-wide monitoring plan or submit their own plan. The monitoring plan should outline a program to sample for algal biomass, algal percent cover, nutrients (total and dissolved), <i>in situ</i> water quality parameters (dissolved oxygen, pH, temperature, electrical conductivity), and flow for the river and estuary. The monitoring procedures/methods, analysis, and quality assurance must be SWAMP comparable. The sampling frequency and locations must be adequate to assess beneficial use condition and attainment of applicable water quality objectives. At a minimum algal biomass and pre-dawn DO sampling shall be conducted two times per growing season (May 1-September 30); once early in the season and once late in the season. All other parameters, including algal percent cover, shall be monitored monthly.
	River indicators shall be averaged over a sampling reach as described in the SWAMP monitoring protocol - Bioassessment SOP 02. Estuary macroalgal cover is measured using three transects and evaluating percent cover at 10 random points along each transect. Results are reported as a transect average. See methods used in the Bight '08 Estuarine Eutrophication Assessment (McLaughlin K et al. Southern California Bight 2008 Regional Monitoring Program: Estuarine Eutrophication Assessment. Southern California Coastal Water Research Project. Costa Mesa, CA).
	Existing receiving water monitoring conducted under other programs can be leveraged to assist in meeting these monitoring requirements. Responsible parties may build upon existing monitoring programs in the Ventura River watershed when developing the receiving water quality monitoring plan for this TMDL. Receiving water monitoring requirements shall be incorporated into the permit, waste discharge requirements (WDRs), or waiver for each responsible

TMDL Element	Regulatory Provisions
	party upon issuance, renewal, or modification. The responsible parties may continue to coordinate a watershed-wide monitoring program to meet this requirement in order to fulfill individual permit, WDR, or waiver requirements. Receiving water monitoring shall continue beyond the final implementation date of the TMDL unless the Executive Officer approves a reduction or elimination of such monitoring.
	Discharge Monitoring
	Discharge monitoring will assess attainment of the WLAs and LAs. Discharge monitoring shall be required by regulatory mechanisms used to implement the WLAs and LAs. The monitoring to determine compliance with WLAs and LAs shall be conducted at the frequency specified in the Implementation Plan in the following section. The monitoring procedures/methods, analysis, and quality assurance must be Surface Water Ambient Monitoring Program (SWAMP) comparable.
	Special Studies
	Responsible parties within the watershed may conduct optional special studies designed to refine WLAs, LAs, and/or numeric targets. The results of special studies and monitoring may be used to revise numeric targets and allocations, if supported, when the TMDL is reconsidered. The following are potential special studies.
	<ul> <li>Build upon the algal biomass and total nitrogen relationship established in the 2008 UCSB Study (UCSB, 2009) and collect data to support the establishment of reach-specific relationships.</li> <li>Confirm the conclusion that an algal biomass target of 150 mg/m² is fully protective of aquatic life and minimizes the risk of low DO events.</li> <li>Collect additional source assessment information and model input data to refine model-predicted relationships between watershed loading and instream nutrient concentrations.</li> <li>Investigate the influence of OWTS on surface water quality.</li> <li>Collect data to support development of an estuary model, which takes into account tidal influence, the dynamics of macroalgae and phytoplankton growth, residence time, and breaching conditions.</li> </ul>

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TMDL Element	Regulatory Provisions
Implementation Plan	The regulatory mechanisms used to implement the WLAs include the Ojai Valley WWTP NPDES permit, the Ventura County MS4 permit, the Caltrans MS4 permit, the general industrial storm water permits, the general construction storm water permits, and other NPDES permits. WLAs shall be incorporated into each permit at the time of permit issuance, modification, or renewal.  Ojai Valley WWTP
	The dry-weather WLAs for the Ojai WWTP shall be incorporated into the permit as numeric effluent limitations, expressed as a dry-weather load, calculated as the average monthly nutrient concentration (TN and TP) multiplied by the daily flow for each dry-weather day, and summed over an annual period. The wetweather WLAs shall be incorporated as effluent limitations, expressed as a daily maximum concentration, to be assessed at a minimum with monthly sampling. Ojai WWTP shall achieve compliance with wet-weather WLAs upon incorporation into the permit and shall achieve compliance with dry-weather WLAs within 10 years of the effective date of the TMDL. Ojai Valley WWTP shall have interim WLAs based on current plant performance; i.e., equal to wet-weather WLAs.
	Ojai Valley WWTP interim dry-weather WLAs
	TN TP
	(mg/L) (mg/L) 7.6 2.6
	Ventura County MS4 and Caltrans
	The WLAs for the Ventura County MS4 permittees and Caltrans shall be incorporated into the permit as numeric water quality-based effluent limitations. Wet-weather effluent limitations shall be expressed as event mean concentrations and shall apply immediately upon issuance, modification, or renewal of the permits. Compliance with wet-weather WLAs shall be assessed at a minimum with two wet-weather sampling events. Dry-weather WLAs shall be assessed at a minimum with quarterly sampling and shall be attained within 6 years.
	Ventura County MS4 permittees and Caltrans shall provide an implementation plan to the Regional Board outlining how they intend to achieve compliance with the WLAs. The report shall include implementation methods and a quantitative analysis of the expected water quality outcomes of the implementation methods, an implementation schedule, proposed interim milestones, and compliance points.
	General Industrial and Construction Stormwater Permittees
	The dry- and wet-weather WLAs for the general and industrial stormwater permittees shall apply immediately upon issuance, modification, or renewal and shall be incorporated into permits as numeric water quality-based effluent limitations. Wet-weather effluent limitations shall be expressed as event mean concentrations and dry-weather effluent limitations shall be expressed as

TMDL Element	Regulatory Provisions
	instantaneous maximums. Dry- and wet-weather WLAs shall apply immediately upon issuance, modification, or renewal. Compliance with wet-weather WLAs shall be assessed at a minimum with one wet-weather sampling event. Compliance with dry-weather WLAs shall be assessed at a minimum by averaging the results of two grab samples.
	Other NPDES Permittees
	The dry- and wet-weather WLAs for other NPDES permittees shall apply immediately upon issuance, modification, or renewal of applicable permits and shall be incorporated into permits as numeric effluent limitations. Wet-weather effluent limitations shall be expressed as event mean concentrations and dry-weather effluent limitations shall be expressed as instantaneous maximums. Dry-and wet-weather WLAs shall apply immediately upon issuance, modification, or renewal. Compliance with wet-weather WLAs shall be assessed at a minimum with one wet-weather sampling event. Compliance with dry-weather WLAs shall be assessed at a minimum with two grab samples.
	The regulatory mechanisms that will be used to implement the LAs include Basin Plan prohibitions, WDRs, and waivers of WDRs.
	Agricultural Discharges
	The LAs for irrigated agricultural lands shall be implemented through the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands or other appropriate Regional Board order. Agricultural lands shall achieve compliance with dry- and wet-weather LAs within 6 years of the effective date of the TMDL. To implement the LAs in this TMDL, the monitoring program shall be revised to add representative sites in the lower watershed to monitor runoff from other crop types. The revised monitoring program shall be subject to approval by the Executive Officer.
	The estimated costs for agricultural discharges such as filter strips, mulching, improved irrigation efficiency, nutrient management, manure management, and grazing management are approximately \$1031 per acre, \$808 per acre, \$1784 per acre, \$55 per acre-year, \$4,500 (average cost of manure bunker), and \$1,356 (average cost of a typical watering facility), respectively. Potential sources of financing for these implementation alternatives, such as Clean Water Act section 319(h) grant funding, are discussed in Chapter 4. As discussed in Chapter 4, the U.S. Department of Agriculture Soil Conservation Service and the Resource Conservation Districts provide information on, and assistance in, implementing BMPs.
	<u>OWTS</u>
	The LAs for OWTS shall be implemented through prohibitions, WDRs, or waivers of WDRs. Commercial and multifamily OWTS are currently regulated by the Regional Board through WDRs. Single family residential OWTS are currently regulated by the City of Ojai, the City of Ventura, and the County of Ventura, as

TMDL Element	Regulatory Provisions
	specified in memorandums of understanding (MOUs) with the Regional Board, in order to implement a waiver of WDRs for single family residential OWTS adopted by the Regional Board in 2004. The MOUs require the Regional Board to evaluate the local agency every five years to ensure their municipal plumbing code and OWTS program is substantially equivalent to any statewide standards adopted pursuant to California Water Code sections 13290 and 13291.
	The State Water Resources Control Board (State Board) Water Quality Control Policy for Siting, Design, Operation, and Maintenance of Onsite Wastewater Treatment Systems (OWTS Policy) was adopted by the State Board to comply with California Water Code sections 13290 and 13291 on June 19, 2012. The OWTS Policy must be approved by the Office of Administrative Law before it becomes final. The OWTS in the Ventura River watershed fall under Tier 3 of the OWTS policy. The policy requires an Advanced Protection Management Program. The geographic area for the Advanced Protection Management Programs to implement this TMDL shall be the entire Ventura River watershed. The Regional Board will work with local agencies to determine which individual OWTS or areas of OWTS are contributing to the overall loading from OWTS.
	The Regional Board will evaluate the MOUs with the City of Ventura, the City of Ojai, and the County of Ventura to determine if their OWTS programs need to be updated to reflect the OWTS policy, or if additional changes are needed to implement the LAs. OWTS dischargers shall achieve compliance with dry- and wet-weather LAs within 10 years of the effective date of the TMDL.
	Horse and Livestock Activities
	The LAs for horse and livestock facilities shall be regulated by WDRs or waivers of WDRs. Horse and livestock facilities shall be required to conduct monitoring and develop management plans that will assess baseline water quality discharged from their facilities, determine reductions needed to attain LAs, and implement management measures to attain LAs.
	Compliance with LAs will be demonstrated at monitoring sites approved by the Executive Officer of the Regional Board through the monitoring program developed as part of the waiver or WDR, or through a monitoring program that is required to implement this TMDL in the event a waiver or WDR is not adopted. Horse and livestock facilities shall achieve compliance with dry- and wet-weather LAs within 10 years of the effective date of the TMDL.

**Table 7-35.2.** Ventura River, Ventura River Estuary, and Tributaries Algae, Eutrophic Conditions and Nutrients TMDL: Implementation Schedule

Task	Due Date	
Submit results of optional special studies	3 years after effective date of TMDL	
Reconsider TMDL to revise numeric targets allocations if supported by special studies	5 years after effective date of TMDL	
Ojai Valley Sanitary District	TWDE	
Wet-weather and interim dry-weather WLAs apply	Effective date of TMDL	
Submit receiving water monitoring plan to assess numeric target attainment and measure in-stream nutrient concentrations	1 year after effective date of TMDL	
Initiate receiving water monitoring plan	90 days after approval of monitoring plan	
Discharge monitoring plan incorporated into permit	Upon permit adoption, renewal, or modification	
Dry-weather WLA apply	10 years after effective date of TMDL	
Ventura County MS4 Permittees and Caltrans		
Wet-weather WLAs apply	Effective date of TMDL	
Discharge monitoring plan incorporated into permit	Upon permit adoption, renewal, or modification	
Submit monitoring plan to assess numeric target attainment and measure in-stream nutrient concentrations.	1 year after effective date of TMDL	
Initiate receiving water monitoring plan	90 days after approval of monitoring plan	
Submit implementation plan to achieve compliance with the WLAs. The plan shall include implementation methods, an implementation schedule, proposed interim milestones, and compliance points.	2 years after effective date of TMDL	
Dry-weather WLAs apply	6 years after effective date of TMDL	
General Industrial and Construction Stormwater Permittees		
Wet-weather and dry-weather WLAs apply	Effective date of TMDL	
Discharge monitoring plan incorporated into permit	Upon permit adoption, renewal, or modification	
Other NPDES Permittees		
Wet-weather and dry-weather WLAs apply	Effective date of TMDL	
Discharge monitoring plan incorporated into permit	Upon permit adoption, renewal, or modification	

Task	Due Date	
Agricultural Discharges		
Discharge monitoring plan incorporated into Agriculture Waiver or other order or waiver	Upon adoption, renewal, or modification	
Submit monitoring plan to assess numeric target attainment and measure in-stream nutrient. concentrations.	1 year after effective date of TMDL	
Initiate receiving water monitoring plan	90 days after approval of monitoring plan	
Wet-weather and dry-weather WLAs apply	6 years after effective date of TMDL	
Onsite Waste Water Treatment Systems		
Wet-weather and dry-weather WLAs apply	10 years after effective date of TMDL	
Horse/Livestock Owners		
Discharge monitoring plan submitted as part of waiver requirement or in response to Regional Board order	5 years after effective date of TMDL	
Conduct receiving water monitoring to assess numeric target attainment and measure in-stream nutrient concentrations	5 years after effective date of TMDL	
Wet-weather and dry-weather WLAs apply	10 years after effective date of TMDL	