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# California Regional Water Quality Control Board

## Los Angeles Region

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**TO:** Stan Martinson, Chief  
Division of Water Quality  
State Water Resources Control Board

Received  
Oct 9, 2003 by fax

**FROM:** Dennis A. Dickerson  
Executive Officer

*[Signature]* AEO for

**DATE:** October 9, 2003

**SUBJECT:** ADDITIONAL MINOR, NON-SUBSTANTIVE CORRECTION TO THE LANGUAGE OF THE BASIN PLAN AMENDMENT ADOPTED IN RESOLUTION NO. 03-009, AMENDING THE WATER QUALITY CONTROL PLAN, LOS ANGELES REGION (BASIN PLAN) TO INCLUDE A TOTAL MAXIMUM DAILY LOAD (TMDL) FOR NITROGEN COMPOUNDS AND RELATED EFFECTS IN THE LOS ANGELES RIVER

At the Regional Board hearing on July 10, 2003, the Regional Board voted to amend the Basin Plan to include a TMDL for nitrogen compounds and related effects in Los Angeles River and its tributaries. The subject Basin Plan amendment sets numeric targets and wasteload and load allocations for ammonia and nitrogen (nitrate-nitrogen, nitrite-nitrogen, and nitrate-nitrogen + nitrite-nitrogen). It also sets forth an implementation plan to achieve these allocations, and monitor and evaluate the effect of nitrogen load reductions on related water quality effects such as algae. The Basin Plan amendment will address impairments of the Los Angeles River so that water quality standards are attained.

Resolution No. 03-009 permits the Regional Board Executive Officer to make minor, non-substantive corrections to the language of the Basin Plan amendment if the Office of Administrative Law (OAL) or State Water Resources Control Board (SWRCB) determines during the approval process that the corrections are needed for clarity or consistency.

On September 19, 2003, I submitted minor, non-substantive corrections to the language of the Basin Plan Amendment to include a TMDL for nitrogen compounds and related effects in the Los Angeles River in the Basin Plan. The SWRCB determined that the corrections set forth in my September 19, 2003 memorandum were necessary for clarity and were requested by SWRCB staff in a memorandum from Stan Martinson of the State Board Division of Water Quality to me on September 12, 2003.

On October 8, 2003, SWRCB staff requested an additional minor, non-substantive correction to the Basin Plan Amendment. This change adds the following language to Table 7.8.1, Load Allocation (additional language shown as underlined):

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Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

Mr. Stan Martinson  
Division of Water Quality

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October 9, 2003

“The Source Assessment indicates that nitrogen loads from nonpoint sources are negligible compared to loading from point sources and their contribution is adequately accounted for in the margin of safety.”

Attached to this letter is the revised version of the Basin Plan Amendment adopted in Resolution No. 03-009 containing the minor, non-substantive correction described above in addition to the previous minor, non-substantive changes requested by SWQRCB staff.

***California Environmental Protection Agency***

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**State of California**  
**California Regional Water Quality Control Board, Los Angeles Region**

**RESOLUTION NO. 03-009**

**July 10, 2003**

**Amendment to the Water Quality Control Plan for the Los Angeles Region to include a TMDL for Nitrogen Compounds and Related Effects in the Los Angeles River**

**WHEREAS, the California Regional Water Quality Control Board, Los Angeles Region, finds that:**

1. The federal Clean Water Act (CWA) requires the California Regional Water Quality Control Board (Regional Board) to develop water quality standards which are sufficient to protect beneficial uses designated for each water body found within its region.
2. The Regional Board carries out its CWA responsibilities through California's Porter-Cologne Water Quality Control Act and establishes water quality objectives designed to protect beneficial uses contained in the Water Quality Control Plan for the Los Angeles Region (Basin Plan).
3. Section 303(d) of the CWA requires states to identify and to prepare a list of water bodies that do not meet water quality standards and then establish load and wasteload allocations, or a total maximum daily load (TMDL), for each water body that will ensure attainment of water quality standards and then to incorporate those allocations into their water quality control plans.
4. The Los Angeles River was listed on California's 1998 section 303(d) list, due to impairment for ammonia, nutrients, and their effects such as odor, scum, pH, and algae that do not protect the most sensitive beneficial uses of the water body.
5. A consent decree between the U.S. Environmental Protection Agency (USEPA), Heal the Bay, Inc. and BayKeeper, Inc. was approved on March 22, 1999. The court order directs the USEPA to complete TMDLs for all the Los Angeles Region's impaired waters within 13 years.
6. The elements of a TMDL are described in 40 CFR 130.2 and 130.7 and section 303(d) of the CWA, as well as in USEPA guidance documents (e.g., USEPA, 1991). A TMDL is defined as "the sum of the individual wasteload allocations for point sources and load allocations for nonpoint sources and natural background" (40 CFR 130.2). Regulations further stipulate that TMDLs must be set at "levels necessary to attain and maintain the applicable narrative and numeric water quality standards with seasonal variations and a margin of safety that takes into account any lack of knowledge concerning the relationship between effluent limitations and water quality" (40 CFR 130.7(c)(1)). The regulations in 40 CFR 130.7 also state that

TMDLs shall take into account critical conditions for stream flow, loading and water quality parameters.

7. Upon establishment of TMDLs by the State or USEPA, the State is required to incorporate the TMDLs along with appropriate implementation measures into the State Water Quality Management Plan (40 CFR 130.6(c)(1), 130.7). The Water Quality Control Plan for the Los Angeles Region (Basin Plan), and applicable statewide plans, serve as the State Water Quality Management Plans governing the watersheds under the jurisdiction of the Regional Board.
8. The Los Angeles River is located in Los Angeles County, California. It reaches from Bell Canyon Creek in the western San Fernando Valley to the Los Angeles Harbor in San Pedro. The proposed TMDL addresses documented water quality impairments by nitrogen compounds and nutrient effects such as algae, odors, and scum.
9. The Regional Board's goal in establishing the above-mentioned TMDL is to maintain the warm freshwater (WARM) and wildlife (WILD) habitats and attain the water quality objectives established in the Basin Plan for ammonia, nitrite and nitrate, and narrative objectives for biostimulatory substances, color, solid, suspended, or settleable materials, taste and odor, and floating material which applies to nutrients, algae, odor, scum, and foam. Scientific studies have shown the relationship between ammonia and toxicity and nutrients and eutrophication.
10. Regional Board staff have prepared a detailed technical document that analyzes and describes the specific necessity and rationale for the development of this TMDL. The technical document entitled "Total Maximum Daily Loads for Nitrogen Compounds and Related Effects Los Angeles River and Tributaries" is an integral part of this Regional Board action and was reviewed, considered, and accepted by the Regional Board before acting. Further, the technical document provides the detailed factual basis and analysis supporting the problem statement, numeric targets (interpretation of the numeric water quality objective, used to calculate the load allocations), source analysis, linkage analysis, wasteload allocations (for point sources), load allocation (for nonpoint sources), margin of safety, and seasonal variations and critical conditions of this TMDL.
11. At the Regional Board hearing on July 10, 2003, the Regional Board requested clarification on the TMDL cost analysis presented in the staff report. Regional Board staff noted that the Basin Plan contains a criterion specific objective for ammonia, and compliance with this objective is driving the facility upgrades at the major Publicly Owned Treatment Works (POTWs) that discharge to the Los Angeles River. Based on this information, the Regional Board requested that this resolution note that the costs associated with this TMDL are limited to the costs for additional monitoring and special studies. This TMDL will not cause dischargers any capital expenditures beyond those costs which are attributable to the Basin Plan ammonia objective.

12. Interested persons and the public have had reasonable opportunity to participate in review of the amendment to the Basin Plan. Efforts to solicit public review and comment include at least fifteen workshops held between January 1999 and February 2002; at least two presentations at the Los Angeles and San Gabriel Rivers Watershed Council, public notification 45 days preceding the Board hearing; and responses from the Regional Board staff to oral and written comments received from the public.
13. The amendment is consistent with the State Antidegradation Policy (State Board Resolution No. 89-16), in that the changes to water quality objectives (i) consider maximum benefits to the people of the state, (ii) will not unreasonably affect present and anticipated beneficial use of waters, and (iii) will not result in water quality less than that prescribed in policies. Likewise, the amendment is consistent with the federal Antidegradation Policy (40 CFR 131.12).
14. The basin planning process has been certified as functionally equivalent to the California Environmental Quality Act requirements for preparing environmental documents and is, therefore, exempt from those requirements (Public Resources Code, Section 21000 et seq.), and the required environmental documentation and CEQA environmental checklist have been prepared.
15. The proposed amendment results in no potential for adverse effect (de minimis finding), either individually or cumulatively, on wildlife.
16. The regulatory action meets the "Necessity" standard of the Administrative Procedures Act, Government Code, section 11353, subdivision (b).
17. The Basin Plan amendment incorporating a TMDL for nitrogen and related effects in the Los Angeles River must be submitted for review and approval by the State Water Resources Control Board (State Board), the State Office of Administrative Law (OAL), and the US Environmental Protection Agency (USEPA). The Basin Plan amendment will become effective upon approval by OAL and USEPA. A Notice of Decision will be filed.

**THEREFORE, be it resolved that pursuant to Section 13240 and 13242 of the Water Code, the Regional Board hereby amends the Basin Plan as follows:**

1. Pursuant to sections 13240 and 13242 of the California Water Code, the Regional Board, after considering the entire record, including oral testimony at the hearing, hereby adopts the amendment to Chapter 7 the Water Quality Control Plan for the Los Angeles Region to incorporate the elements of the Los Angeles River Nitrogen Compounds and Related Effects TMDL as set forth in Attachment A hereto.
2. The Executive Officer is directed to forward copies of the Basin Plan amendment to the SWRCB in accordance with the requirements of section 13245 of the California Water Code.

3. The Regional Board requests that the SWRCB approve the Basin Plan amendment in accordance with the requirements of sections 13245 and 13246 of the California Water Code and forward it to OAL and the U.S. EPA.
4. If during its approval process the SWRCB or OAL determines that minor, non-substantive corrections to the language of the amendment are needed for clarity or consistency, the Executive Officer may make such changes, and shall inform the Board of any such changes.
5. The Executive Officer is authorized to sign a Certificate of Fee Exemption.
6. Amend the text in the Basin Plan, Plans and Policies (Chapter 5) to add:

"Resolution No. 03-009. Adopted by the Regional Water Quality Control Board on July 10, 2003.

'Amendment to include a TMDL for Nitrogen and Related Effects for the Los Angeles River'

The resolution proposes a TMDL for Nitrogen and Related Effects in the Los Angeles River."

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of a resolution adopted by the California Regional Water Quality Control Board, Los Angeles Region, on July 10, 2003.

Original signed by  
Dennis A. Dickerson  
Executive Officer

**Attachment A to Resolution No. 03-009**

**Amendment to the Water Quality Control Plan – Los Angeles Region**

**to Incorporate the**

**Los Angeles River Nitrogen Compounds and Related Effects TMDL**

Proposed for adoption by the California Regional Water Quality Control Board, Los Angeles Region on July 10, 2003.

**Amendments**

**Table of Contents**

Add:

Chapter 7. Total Maximum Daily Loads (TMDLs)

7-8. Los Angeles River Nitrogen Compounds and Related Effects TMDL

**List of Figures, Tables, and Inserts**

Add:

Chapter 7. Total Maximum Daily Loads (TMDLs)

Tables

7-8. Los Angeles River Nitrogen Compounds and Related Effects TMDL

7-8.1 Los Angeles River Nitrogen Compounds and Related Effects TMDL:  
Elements

7-8.2. Los Angeles River Nitrogen Compounds and Related Effects TMDL:  
Implementation Schedule

**Chapter 7. Total Maximum Daily Loads (TMDLs)**

**Los Angeles River Nitrogen Compounds and Related Effects TMDL**

This TMDL was adopted by:

The Regional Water Quality Control Board on July 10, 2003.

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].

**Table 7-8.1. LOS ANGELES RIVER NITROGEN COMPOUNDS AND RELATED EFFECTS TMDL: Elements**

<b>Element</b>	<b>Los Angeles River Nitrogen Compounds and Related Effects TMDL</b>
<b>Problem Statement</b>	Reaches of the Los Angeles River and its tributaries were listed as impaired for nitrogen compounds (ammonia, nitrate, and nitrite) and related effects such as algae, pH, odor, and scum on the 2002 303(d) list. These reaches were listed because numeric and narrative water quality objectives for nitrogen compounds and related effects were exceeded, thereby impairing warm, freshwater, and wildlife habitats, and recreation beneficial uses.
<b>Numeric Target</b> <i>(Interpretation of the numeric water quality objective, used to calculate the load allocations)</i>	<p>Numeric targets for this TMDL are listed as follows:</p> <p>a) Total ammonia as nitrogen (NH<sub>3</sub>-N)            Numeric targets are dependent on temperature and pH of receiving water. Based on the last three years of temperature and pH data, the ammonia numeric targets for receiving waters correspondent to major discharge points are provided below:</p> <p style="text-align: center;"><i>Receiving water correspondent to major discharge point</i></p> <p style="text-align: center;"><i>One-hour average</i></p> <p style="text-align: center;"><i>Thirty-day average</i></p> <p>Los Angeles River Reach 5 (within Sepulveda Basin) - Donald C. Tillman WRP            4.7 mg/L            1.6 mg/L</p> <p>Los Angeles River Reach 3 (Riverside Dr. to Figueroa St.) - Los Angeles/ Glendale WRP            8.7 mg/L            2.4 mg/L</p> <p>Burbank Western Channel - Burbank WRP            10.1 mg/L            2.3 mg/L</p> <p>b) Nitrate-nitrogen and nitrite-nitrogen</p> <p style="text-align: center;"><i>Constituent</i></p> <p style="text-align: center;"><i>Thirty-day average</i></p> <p>Nitrate-nitrogen (NO<sub>3</sub>-N)            8 mg/L</p> <p>Nitrite-nitrogen (NO<sub>2</sub>-N)            1 mg/L</p> <p>Nitrate-nitrogen plus nitrite-nitrogen            (NO<sub>3</sub>-N + NO<sub>2</sub>-N)            8 mg/L</p> <p>Numeric targets to address narrative objectives required to protect warm</p>

<b>Element</b>	<b>Los Angeles River Nitrogen Compounds and Related Effects TMDL</b>
	freshwater and wildlife habitats are intended to implement the narrative objectives and may be revised based on the results of monitoring and studies conducted pursuant to the implementation plan.
<i>Source Analysis</i>	The principal source of nitrogen compounds to the Los Angeles River is discharges from the Donald C. Tillman Water Reclamation Plant (WRP), the Los Angeles-Glendale WRP, and the Burbank WRP. During dry weather period, the major POTWs contribute 84.1% of the total dry weather nitrogen load. Urban runoff, stormwater, and groundwater discharge may also contribute nitrate loads. Further evaluation of these sources is set forth in the Implementation Plan.
<i>Linkage Analysis</i>	Linkage between nutrient sources and the instream water quality was established through hydrodynamic and water quality models. The Environmental Fluid Dynamics Code 1-D was used to model the hydrodynamic characteristics of the Los Angeles River and the Water Quality Analysis Simulation Program was used to model water quality. Additional studies were conducted to develop the residence time and determine the nutrient uptake rates by algae.
<i>Wasteload Allocations (for point sources)</i>	<p>1. Major point sources:</p> <p>a) Total ammonia as nitrogen (NH<sub>3</sub>-N):</p> <p style="text-align: center;"><i>POTW</i> <i>One-hour average WLA</i> <i>Thirty-day average WLA</i></p> <p>Donald C. Tillman WRP 4.2 mg/L 1.4 mg/L</p> <p>Los Angeles-Glendale WRP 7.8 mg/L 2.2 mg/L</p> <p>Burbank WRP 9.1 mg/L 2.1 mg/L</p> <p>b) Nitrate-nitrogen (NO<sub>3</sub>-N), nitrite-nitrogen (NO<sub>2</sub>-N), and Nitrate-nitrogen plus nitrite-nitrogen (NO<sub>3</sub>-N + NO<sub>2</sub>-N):</p> <p style="text-align: center;"><i>Constituent</i> <i>Thirty-day average WLA*</i></p> <p>NO<sub>3</sub>-N 7.2 mg/L</p>

Element	Los Angeles River Nitrogen Compounds and Related Effects TMDL
	<p>NO<sub>2</sub>-N 0.9 mg/L</p> <p>NO<sub>3</sub>-N + NO<sub>2</sub>-N 7.2 mg/L</p> <p>*Receiving water monitoring is required on a weekly basis to ensure compliance with the water quality objective.</p> <p>2. <u>Minor point sources:</u></p> <p>Waste loads are allocated to minor point sources enrolled under NPDES or WDR permits including but not limited to Tapia WRP, Whittier Narrows WRP, Los Angeles Zoo WRP, industrial and construction stormwater, and municipal storm water and urban runoff from municipal separate storm sewer systems (MS4s):</p> <p>a) Ammonia wasteload allocations (WLAs) for minor point sources are listed below by receiving waters:</p> <p style="text-align: center;"><i>Water Body</i> <i>One-hour average WLA</i> <i>Thirty-day average WLA</i></p> <p>Los Angeles River above Los Angeles-Glendale WRP (LAG) 4.7 mg/L 1.6 mg/L</p> <p>Los Angeles River below LAG 8.7 mg/L 2.4 mg/L</p> <p>Los Angeles Tributaries 10.1 mg/L 2.3 mg/L</p> <p>b) WLAs for nitrate-nitrogen, nitrite-nitrogen, and nitrate-nitrogen plus nitrite-nitrogen for minor discharges are listed below:</p> <p style="text-align: center;"><i>Constituent</i> <i>Thirty-day average WLA</i></p> <p>NO<sub>3</sub>-N 8.0 mg/L</p> <p>NO<sub>2</sub>-N 1.0 mg/L</p> <p>NO<sub>3</sub>-N + NO<sub>2</sub>-N 8.0 mg/L</p>
<b>Load Allocation</b> <i>(for nonpoint</i>	The Source Assessment indicates that nitrogen loads from nonpoint sources are negligible compared to loading from point sources and their contribution

<b>Element</b>	<b>Los Angeles River Nitrogen Compounds and Related Effects TMDL</b>
<i>sources)</i>	is adequately accounted for in the margin of safety. Consequently, load allocations will not be developed unless it is determined they are necessary after load reductions are effected through implementation of the wasteload allocations. Additional monitoring is included in the implementation plan to verify the nitrogen nonpoint source contributions.
<b>Implementation</b>	<p>1. Refer to Table 7-8.2</p> <p>2. The Implementation Plan includes upgrades to the WRPs discharging to Los Angeles River for removal of ammonia, nitrate, and nitrite. At the discretion of the Regional Board, the following interim limits for ammonia, and nitrate plus nitrite will be allowed for major point sources for a period not to exceed 3.5 years from the effective date of this TMDL. Effluent limits for the individual compounds NO<sub>3</sub>-N, and NO<sub>2</sub>-N are not required during the interim period.</p> <p style="text-align: center;"><u><i>Interim Limits for NH<sub>3</sub>-N</i></u>  <i>Total ammonia as Nitrogen</i>  <b>POTW</b>  <i>Daily Maximum*</i>  <i>Monthly Average*</i></p> <p>Donald C. Tillman WRP  21.7 mg/L  21.0 mg/L</p> <p>Los Angeles-Glendale WRP  19.4 mg/L  16.5 mg/L</p> <p>Burbank WRP  24.1 mg/L  22.7 mg/L</p> <p>*The monthly average and daily maximum interim limits are based on the 95<sup>th</sup> and 99<sup>th</sup> percentiles of effluent performance data reported by dischargers.</p> <p style="text-align: center;"><u><i>Nitrite-nitrogen + Nitrate-nitrogen</i></u>  <i>Monthly Average</i></p> <p style="text-align: center;">8.0 mg/L</p> <p>The Implementation Plan also includes additional studies to evaluate the effectiveness of nitrogen reductions on related effects such as algae growth, odors and scum. Ammonia and nitrate reductions will be regulated through effluent limits prescribed in NPDES permits.</p>
<b>Margin of Safety</b>	An explicit margin of safety of 10% of the ammonia, nitrate, nitrite and nitrate + nitrite loads is allocated to address uncertainty in the sources and linkage analyses. In addition, an implicit margin of safety is incorporated

<b>Element</b>	<b>Los Angeles River Nitrogen Compounds and Related Effects TMDL</b>
	through conservative model assumptions and statistical analysis.
<b><i>Seasonal Variations and Critical Conditions</i></b>	The critical condition identified for this TMDL is based on low flow condition. The driest six months of the year are the most critical condition for nutrients because less surface flow is available to dilute effluent discharge.

Table 7-8.2. IMPLEMENTATION SCHEDULE Implementation Tasks	Completion Date
<ol style="list-style-type: none"> <li>1. Apply interim limits for NH<sub>3</sub>-N and NO<sub>3</sub>-N + NO<sub>2</sub>-N to major Publicly Owned Treatment Works (POTWs).</li> <li>2. Apply Waste Load Allocations (WLAs) to minor point source dischargers and MS4 permittees.</li> <li>3. Begin to include monitoring for nitrogen compounds in NPDES permits for minor NPDES dischargers above 0.1 mgd as permits are renewed.</li> </ol>	Effective Date of TMDL
<ol style="list-style-type: none"> <li>4. Submittal of a Monitoring Work Plan by MS4 permittees to estimate nitrogen loadings associated with runoff loads from the storm drain system for approval by the Executive Officer of the Regional Board. The Work Plan will include monitoring for ammonia, nitrate, and nitrite. The Work Plan may include a phased approach wherein the first phase is based on monitoring from the existing mass emission station in the Los Angeles River. The results will be used to calibrate the linkage analysis.</li> </ol> <p>The Work Plan will also contain protocol and a schedule for implementing additional monitoring if necessary. The Work Plan will also propose triggers for conducting source identification and implementing BMPs, if necessary. Source identification and BMPs will be in accordance with the requirements of MS4 permits.</p>	1 year after the Effective Date of TMDL
<ol style="list-style-type: none"> <li>5. Submittal of a Workplan by major NPDES permittees to evaluate the effectiveness of nitrogen reductions on removing impairments from algae odors, scums, and pH for approval by the Executive Officer of the Regional Board. The monitoring program will include instream monitoring of algae, foam, scum, pH, and odors in the Los Angeles River. In addition, groundwater discharge to Los Angeles River will also be analyzed for nutrients to determine the magnitude of these loadings and the need for load allocations. The Workplan will include protocol and schedule for refining numeric targets for nitrogen compounds and related effects such as excessive algae in the Los Angeles River. The Workplan will also contain protocol and a schedule for identification of limiting nutrients.</li> </ol>	1 year after the Effective Date of TMDL
<ol style="list-style-type: none"> <li>6. Submission of a special studies Workplan by the City of Los Angeles to evaluate site-specific objectives for ammonia, nitrate, and nitrite, including the following issues: pH and temperature distribution downstream of the D.C. Tillman WRP to determine the point of compliance for ammonia, establishment of ammonia WLAs based on seasonality.</li> </ol>	1 year after Effective Date of TMDL
<ol style="list-style-type: none"> <li>7. Submission of all results from Task 6, and results from water effects ratio study for ammonia which has been performed by the City of Los Angeles.</li> </ol>	No later than 2.5 years after Effective Date of TMDL.

<b>Table 7-8.2. IMPLEMENTATION SCHEDULE</b>	
<b>Implementation Tasks</b>	<b>Completion Date</b>
8. Regional Board considers site-specific objectives for ammonia, nitrate, nitrite and nitrite + nitrate and revision of wasteload allocations based on results from Tasks 6 and 7. The Regional Board will consider factors such as seasonal variation, averaging periods, and water effects ratios when determining whether it is appropriate to adopt site-specific objectives for ammonia. If a site specific objective is adopted by the Regional Board, and approved by relevant approving agencies, this TMDL will need to be revised, readopted, and reapproved to reflect the revised water quality objectives.	No later than 3.5 years after Effective Date of TMDL.
9. Interim limits for ammonia and nitrate + nitrite expire and WLAs for ammonia, nitrate, nitrite, and nitrate + nitrite apply to major point sources.	3.5 years after Effective Date of TMDL
10. Complete evaluation of monitoring for nutrient effects and determine need for revising wasteload allocations, including but not limited to establishing new WLAs for other nutrient and related effects such as algal growth	4 years after Effective Date of TMDL
11. Regional Board considers results of Tasks 5 and 10 and revises or establishes WLAs as appropriate.	5 years after Effective Date of TMDL