



California Regional Water Quality Control Board Los Angeles Region

Public Comment
Caltrans - MS4 Permit
Deadline: 3/14/11 by 12 noon

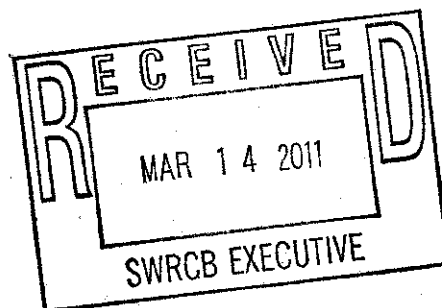


Linda S. Adams
Acting Secretary for
Environmental Protection

320 West Fourth Street, Suite 200, Los Angeles, California 90013
(213) 576-6600 • Fax (213) 576-6640
<http://www.waterboards.ca.gov/losangeles>

Edmund G. Brown Jr.
Governor

March 14, 2011



Jeanine Townsend
Clerk to the Board
State Water Resources Control Board
1001 I Street, 24th Floor
Sacramento, CA 95814

Dear Ms. Townsend:

The Los Angeles Regional Water Quality Control Board (LA Regional Board) appreciates the opportunity to provide comments on the January 7, 2011 Draft NPDES Statewide Storm Water Permit/Waste Discharge Requirements (WDRs) for State of California, Department of Transportation (Caltrans). The LA Regional Board has previously provided comments to State Board staff during the development of the draft permit.

The focus of the LA Regional Board's comments is on the incorporation of TMDL requirements as described in the draft Permit, Findings 32-36, Section 4. TMDL Compliance Requirements, and Attachment IV. TMDL Requirements.

H-1

1. Attachment IVa identifies TMDLs adopted by the Regional Boards for which Caltrans has been assigned a Waste Load Allocation (WLA), while Attachment IVb identifies those TMDLs applicable to Caltrans that have been established by USEPA. In the Los Angeles Region, Caltrans is subject to 23 TMDLs adopted by the LA Regional Board and 4 TMDLs established by USEPA. These include 7 trash TMDLs, 5 bacteria TMDLs, 5 metals TMDLs, 4 nutrient and related effects TMDLs, 4 toxics/toxicity TMDLs, and 2 chloride TMDLs. (See Attachment A to this letter.)

H-2

The LA Regional Board believes that it is imperative to include the WLAs assigned to Caltrans in Attachment IV as permit requirements rather than simply referencing the regional basin plans in which they can be found. This is important not only from a legal standpoint (40 CFR §122.44(d)(1)(vii) and Cal. Water Code §13263(a)), but also in order to provide clarity and transparency regarding the TMDL requirements to which Caltrans is subject. Therefore, we request that Footnote 1 of Attachment IV is revised to state that "Attachment IV contains new specific permit requirements derived from San Francisco Bay Regional Water Board TMDLs ... as well as from TMDLs applicable to Caltrans within the Los Angeles Region. Unlike the remainder of Attachment IV, these requirements are directly enforceable through this Order." [Recommended revision shown above in underlined text.]

H-3

H-4 → Finding 36 should also be clarified to state that implementation requirements for specified TMDLs under the jurisdiction of the Los Angeles Regional Water Board, in addition to those for the San Francisco Regional Water Board, are given in Attachment IV.

H-5 → In Attachment B to this letter, the LA Regional Board has provided recommended ~~revisions and additions to~~ Attachment IVa of the Tentative Order for the TMDLs listed for the Los Angeles Region, including importantly the addition of the WLAs assigned to Caltrans. For the Los Angeles River Watershed Trash TMDL, the additional language provided in Attachment B is the same as that incorporated by the LA Regional Board into the Los Angeles County MS4 Permit for MS4 co-permittees within the Los Angeles River Watershed (Order No. R4-2009-0130 amending Order No. 01-182, adopted on December 10, 2009). [Recommended additions and corrections are shown in underline/strikeout text.]

H-6 → In Attachment IV, it states that WLAs are listed where the relevant TMDL assigns a specific numeric load to Caltrans. Similarly, Finding 33 states that WLAs are shared jointly among several dischargers, "with no specific mass loads assigned to individual discharges". Federal regulations and USEPA guidance allow the expression of WLAs in a number of ways including but not limited to daily loads, concentrations, exceedance days shared among dischargers, and grouped mass-based loads. In a number of TMDLs within the Los Angeles Region, including some TMDLs established by USEPA, Caltrans is assigned a grouped WLA because of the nature of the co-mingled stormwater and urban runoff discharges to waters of the U.S. and the manner of expression of the WLA. Though the WLA may not be disaggregated among individual Permittees, the TMDLs in the Los Angeles Region make it clear that individual Permittees assigned an aggregate WLA are responsible for complying with that WLA. Therefore, these WLAs must be included in the Caltrans permit, where Caltrans is identified as one of the dischargers subject to the aggregate WLA. We recommend that ~~the language of Finding 33 is clarified to state that, "WLAs for some TMDLs are shared jointly among several dischargers, with no specific mass loads assigned to individual dischargers. In these cases, multiple dischargers are assigned a grouped or aggregate waste load allocation and each discharger is responsible for complying with the aggregate waste load allocation for their own discharges."~~ [Recommended additions and corrections are shown in underline/strikeout text.]

H-7 →

2. Knowledge and experience in stormwater management has advanced significantly over the past two decades. As a result, regulatory agencies have the information needed in many cases to develop numeric WQBELs for stormwater and urban runoff. In fact, the State Board recognizes that the TMDL WLAs in the draft permit are "effluent limits".
- H-8 → Therefore, Finding 34 should be revised by deleting the now outdated qualifying statement, "Due to the nature of storm water discharges, and the typical lack of information on which to base numeric WQBELs", and stating instead that "[f]ederal regulations give states the discretion to either express the TMDL's waste load

allocations (WLAs) as numeric water quality based effluent limitations (WQBELs) or best management practices (BMPs) sufficient to achieve the WLA." The Finding should emphasize that the use of BMPs is only supportable as an expression of a TMDL's WLA where the permit's administrative record substantiates that the BMPs are expected to be sufficient to fully implement the WLA in the TMDL, consistent with the implementation schedule established in the TMDL. Iterative approaches without such a record to substantiate them should not qualify for consideration as an expression of a TMDL's WLA. Furthermore, this should not substitute for the Water Boards' obligation to include other requirements such as numeric WQBELs that may be necessary to achieve water quality standards. Finding 35 should also be revised to clarify that compliance may be achieved by demonstrating that the numeric WLA is achieved or that BMPs sufficient to achieve the WLA have been implemented on scheduled and consistent with a regional board-approved TMDL implementation plan.

H-9

H-10

Additionally, the language in Section 4.a TMDL Compliance Requirements should be similarly revised by replacing the last sentence of the first paragraph with a provision stating, instead, that compliance may be demonstrated by achieving the WQBEL (permit's expression of the TMDL WLA) or by implementing BMPs sufficient to achieve the WLA.

H-11

3. Finding 35 and the draft permit provisions (e.g., 6.d. Regional Water Board Authorities) should also set forth the authority(ies) of the regional boards to require TMDL-specific monitoring by Caltrans to assess compliance with the individual and/or aggregate TMDL WLAs assigned to it. This authority should include that provided in Cal. Water Code §13383.

H-12

4. Finding 37 regarding notification of non-compliance should be clarified to add that Caltrans must notify the applicable regional board of non-compliance with TMDL WLAs.

H-13

5. Under C.1 Effluent Limitations, the provision should be clarified to be consistent with Finding 36 to state that Caltrans shall reduce the discharge of pollutants from its MS4 to waters of the U.S. to the MEP, or as necessary to achieve TMDL WLAs established for discharges by Caltrans to that waterbody. [Revision shown in underlined text.]

H-14

6. The LA Regional Board has also provided recommended revisions to Attachment V. Region Specific Requirements to ensure their consistency with previous amendments to the Los Angeles County MS4 Permit (Order No. R4-2007-0042 amending Order No. 01-182) and the currently proposed LA County MS4 Permit and, specifically, the permit provisions implementing the Summer Dry Weather TMDL WLAs for Santa Monica Bay Beaches and Marina del Rey Harbor, including Mothers' Beach. [See Attachment C to this letter.]

Please feel free to contact Renee Purdy, Section Chief, Regional Programs at rpurdy@waterboards.ca.gov or (213) 576-6622 if you have any questions. We look forward to

Ms. Jeanine Townsend

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March 14, 2011

working with the State Board to finalize the draft permit as well as to implementing its provisions in the Los Angeles Region.

Sincerely,

Samuel Unger, P.E.
Executive Officer

Enclosures

California Environmental Protection Agency

ATTACHMENT C TO LA REGIONAL BOARD COMMENTS

ATTACHMENT V—REGION SPECIFIC REQUIREMENTS

PART 3 LOS ANGELES REGION

1. ~~General Discharge Provisions~~ Prohibitions

Discharges of Summer Dry Weather flows from the Department's MS4 into Santa Monica Bay¹ or into Marina Del Rey Harbor Basins D, E, or F, including Mothers' Beach (County of Los Angeles) that cause or contribute to exceedances of the bacteria Receiving Water Limitations in Part 2 below are prohibited.²

2. During Summer Dry Weather there shall be no discharges of bacteria from MS4s into the Santa Monica Bay or Marina del Rey Harbor Basins D, E, or F, including Mothers' Beach that cause or contribute to exceedances in the Wave Wash, of the applicable bacteria objectives. The applicable bacteria objectives include both the single sample and geometric mean bacteria objectives set to protect the Water Contact Recreation (REC-1) beneficial use, as set forth in the Basin Plan.³

~~2. Pilot Project/Retrofit BMPs~~

~~The Department shall submit a plan no later than six months after the effective date of this Order to maintain and operate BMPs installed in the Los Angeles Region under its Pilot Retrofit Study. The Plan shall provide justification for any pilot project BMP that has been decommissioned or is proposed to be decommissioned, including the reasons for not undertaking a retrofit of such BMPs to make them operable to provide a water quality benefit.~~

¹ Santa Monica Bay encompasses the coastal waters from Point Dume to Point Fermin and seaward to the 500-meter depth contour. It includes all beaches from the Los Angeles/Ventura County line south to the Outer Cabrillo Beach located just south of the Palos Verdes Peninsula.

² Responsibility for such prohibited discharges is determined as indicated in Footnote 3 part (4) of Table 7-4.1 and Footnote 2 part (3) of Table 7-5.1 of the Los Angeles Region Basin Plan.

³ Samples collected for determining compliance with the receiving water limitations of Part 3.2 shall be processed in accordance with the sampling procedures and analytical methodology set forth in the *Santa Monica Bay Beaches Bacterial TMDLs Coordinated Shoreline Monitoring Plan* dated April 7, 2004 and the *Marina del Rey Harbor Mothers' Beach and Back Basins Bacterial TMDL Coordinated Shoreline Monitoring Plan* dated April 13, 2007.

Attachment IV TMDL Requirements

Attachment IVa identifies TMDLs adopted by the Regional Water Boards and approved by USEPA for which the Department has been assigned a Waste Load Allocation (WLA), where roads have been assigned a WLA or Load Allocation (LA), or which identifies the Department as a responsible party in the implementation plan.

Attachment IVb identifies the TMDLs established by USEPA. These TMDLs are established without implementation plans or compliance schedules. This summary is compiled for the convenience of the Department only¹. The Department is obligated to consult each TMDL to comply with all applicable allocations and other provisions, whether included in the table or not. Compliance with all TMDLs must be demonstrated to the satisfaction of the applicable Regional Water Board.

Column 1 identifies applicable Regional Water Board Basin Plan Amendments, orders and resolutions which contain the implementation requirements.

Column 2 contains a partial list of WLAs, LAs, deliverables and action items contained in the Basin Plan Amendments, orders and resolutions, and from required submittals by the Department to the Regional Water Boards that have previously been approved by the Executive Officers. WLAs are listed in Attachment 4 where the relevant TMDL assigns a specific numeric load to the Department.

Column 3 contains the associated due dates, compliance dates, and deadlines. All TMDL-related requirements with due dates, compliance dates, and deadlines prior to the effective date of this Order are enforceable through this Order as though the date or deadline is the same as the effective date of this Order. Dates beyond the term of this Order are included for reference, but will become enforceable through this Order in the event that this Order is administratively extended.

¹ This Attachment IV contains new specific permit requirements derived from San Francisco Bay Regional Water Board TMDLs for San Francisco Bay PCBs, San Francisco Bay Mercury, Sonoma Creek Sediment, and Napa River Sediment. Unlike the remainder of Attachment IV, these requirements are directly enforceable through this Order.

R4 – Los Angeles Regional Water Board

2

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																					
	<p>Submit Notice of Intent to comply with Conditional Waiver of Discharge Requirements including MFAC/BMP Program and Trash Monitoring and Reporting Plan</p> <p>Implement Minimum Frequency of Assessment and Collection (MFAC)/BMP Program</p> <p>Annual TMRP Reports including proposal for revising MFAC/BMP for Executive Officer approval.</p>	<p>Board letter of approval for TMRP January 28, 2011 and annually thereafter</p> <p>Six months from receipt of Notice of Acceptance from RB Executive Officer</p> <p>Six months from receipt of Notice of Acceptance from Regional Board Executive Officer.</p> <p>February 27, 2010 and annually thereafter</p>																					
<p>Ventura River Estuary Trash</p> <p>Effective Date: February 27 March 6, 2008</p> <p>BPA: Attachment A, Chapter 7-25</p> <p>Resolution No. R4-2007-008</p>	<p>WLA</p> <table border="1" data-bbox="568 703 1079 955"> <thead> <tr> <th>Deadline</th><th>% WLA</th><th>gal/mi2/yr</th></tr> </thead> <tbody> <tr> <td>3/6/2008</td><td>Initial WLA</td><td>6674</td></tr> <tr> <td>3/6/2012</td><td>80%</td><td>5340</td></tr> <tr> <td>3/6/2013</td><td>60%</td><td>4005</td></tr> <tr> <td>3/6/2014</td><td>40%</td><td>2670</td></tr> <tr> <td>3/6/2015</td><td>20%</td><td>1335</td></tr> <tr> <td>3/6/2016</td><td>0%</td><td>0</td></tr> </tbody> </table> <p>Final WLA is set at zero</p> <p>Other</p> <p>Trash Monitoring and Reporting Plan (TMRP)</p> <p>Implement Trash Monitoring Reporting Plan</p> <p>Submit results of TMRP, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other trash reduction measures.</p> <p>Notice of Intent to Comply with Conditional WDR, including Minimum Frequency of Assessment and Collection (MFAC)/BMP Program TMRP</p> <p>Implement MFAC/BMP Program</p> <p>Annual TMRP Reports including proposal for revising MFAC/BMP for Executive Officer approval.</p>	Deadline	% WLA	gal/mi2/yr	3/6/2008	Initial WLA	6674	3/6/2012	80%	5340	3/6/2013	60%	4005	3/6/2014	40%	2670	3/6/2015	20%	1335	3/6/2016	0%	0	<p>February 27, 2016</p> <p>August 27, 2008</p> <p>July 28, 2009</p> <p>January 28, 2011 and annually thereafter</p> <p>Six months from receipt of Notice of Acceptance from RB Executive Officer.</p> <p>Two years from receipt of Regional Board letter of approval for TMRP</p> <p>August 27, 2008</p> <p>Six months from receipt of Notice of Acceptance from RB Executive Officer.</p> <p>February 27, 2010</p>
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3/6/2016	0%	0																					
<p>Machado Lake Trash</p> <p>Effective Date: February 27 March 6, 2008</p>	<p>WLA</p> <table border="1" data-bbox="552 1806 1063 1953"> <thead> <tr> <th>Deadline</th><th>% WLA</th><th>gal/mi2/yr</th></tr> </thead> <tbody> <tr> <td>3/6/2008</td><td>Initial WLA</td><td>6674</td></tr> <tr> <td>3/6/2012</td><td>80%</td><td>5340</td></tr> <tr> <td>3/6/2013</td><td>60%</td><td>4005</td></tr> </tbody> </table>	Deadline	% WLA	gal/mi2/yr	3/6/2008	Initial WLA	6674	3/6/2012	80%	5340	3/6/2013	60%	4005	<p>September 30, 2015</p>									
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<p>Legg Lake Trash</p> <p>Effective Date: February 27 March 6, 2008</p> <p>BPA: Attachment A, Chapter 7-27</p> <p>Resolution No. R4-2007-010</p>	<p>WLA</p> <table border="1" data-bbox="544 798 1055 1050"> <tr> <th>Deadline</th><th>% WLA</th><th>gal/mi2/yr</th></tr> <tr> <td>3/6/2008</td><td>Initial WLA</td><td>6674</td></tr> <tr> <td>3/6/2012</td><td>80%</td><td>5340</td></tr> <tr> <td>3/6/2013</td><td>60%</td><td>4005</td></tr> <tr> <td>3/6/2014</td><td>40%</td><td>2670</td></tr> <tr> <td>3/6/2015</td><td>20%</td><td>1335</td></tr> <tr> <td>3/6/2016</td><td>0%</td><td>0</td></tr> </table> <p>Final WLA is set at zero.</p> <p>Other Trash Monitoring and Reporting Plan (TMRP)</p> <p>Implement Trash Monitoring Reporting Plan</p> <p>Results of TMRP, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other trash reduction measures.</p>	Deadline	% WLA	gal/mi2/yr	3/6/2008	Initial WLA	6674	3/6/2012	80%	5340	3/6/2013	60%	4005	3/6/2014	40%	2670	3/6/2015	20%	1335	3/6/2016	0%	0	<p>February 27, 2016</p> <p>August 27, 2008</p> <p>July 28, 2009</p> <p>January 28, 2011 and annually thereafter Six months from receipt of letter of approval from Regional Board Executive Officer.</p> <p>Two years from receipt of Regional Board letter of approval for TMRP</p>
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<p>Malibu Creek Watershed Trash</p> <p>Effective Date: June 26 July 7, 2009</p> <p>BPA: Attachment A, Chapter 7-31</p> <p>Resolution No. R4-2008-007</p>	<p>WLA</p> <table border="1" data-bbox="560 1648 1071 1932"> <tr> <th>Deadline</th><th>% WLA</th><th>gal/mi2/yr</th></tr> <tr> <td>7/7/2009</td><td>Initial WLA</td><td>66742136</td></tr> <tr> <td>3/6/2012 7/7/2013</td><td>80%</td><td>17095340</td></tr> <tr> <td>3/6/7/2013 4</td><td>60%</td><td>12824005</td></tr> <tr> <td>3/6/7/2014 5</td><td>40%</td><td>8542670</td></tr> <tr> <td>3/6/7/2016</td><td>20%</td><td>4274335</td></tr> </table>	Deadline	% WLA	gal/mi2/yr	7/7/2009	Initial WLA	66742136	3/6/2012 7/7/2013	80%	17095340	3/6/7/2013 4	60%	12824005	3/6/7/2014 5	40%	8542670	3/6/7/2016	20%	4274335	<p>February 26, 2017</p>			
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TMDL
WLAs/Deliverables/Action Required
Compliance Date Due Date

5		
3/67/7/2017		
6	0%	00

Final WLA is set at zero.

Other

Trash Monitoring and Reporting Plan (TMRP)

Implement Trash Monitoring Reporting Plan

Submit results of TMRP, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other trash reduction measures.

December 26, 2009
April 30, 2010

Six months from receipt of letter of approval from Regional Board Executive Officer

One year from receipt of Regional Board letter of approval for TMRP and annually thereafter

Los Angeles River Trash

Effective Date: July 24
September 23, 2008

BPA: Attachment A, Chapter 7-2

Resolution No. R4-2007-012

Deadline	WLAs			Effluent Limitations		
	%Baseline	(gals)	(lbs)	%Baseline	(gals)	(lbs)
<u>Initial WLA</u>	100%	59421	66566	100%	59421	66566
2008	60%	35653	39940	60%	35653	39940
2009	50%	29711	33283	55%	32682	36611
2010	40%	23768	26626	50%	29711	33283
2011	30%	17826	19970	40%	23768	26626
2012	20%	11884	13313	30%	17826	19970
2013	10%	5942	6657	20%	11884	13313
2014	0%	0	0	10%	5942	6657
2015	0%	0	0	3.3%	1961	2197
2016	0%	0	0	0%	0	0

WLA

Baseline WLA for the Department is 66,566 lbs.

Wasteload Allocation (lbs)

39,939.6
33,283
22,626.4
19,969.8
13,313.2
6,656.6
0
0

Final WLA is set at zero

A. Waste Load Allocations: Caltrans shall comply with the interim and final effluent limitations set forth above.

B. Compliance:

(1) Caltrans may comply with the effluent limitations using any lawful means. Such compliance options are broadly classified as full capture, partial capture, or institutional controls, as described below, and any combination of these may be employed to achieve compliance:

(a) Full Capture Systems:

1) The Los Angeles Region's Basin Plan authorizes the Executive Officer to certify full capture systems, which are systems that meet the operating and performance requirements as

None Specified N/A

September 30, 2008
September 30, 2009
September 30, 2010
September 30, 2011
September 30, 2012
September 30, 2013
September 30, 2014
September 30, 2015
September 30, 2016

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>described in this Order, and the procedures identified in "Procedures and Requirements for Certification of a Best Management Practice for Trash Control as a Full Capture System." (See attached.)³</p> <p>2) Caltrans is authorized to comply with its effluent limitations through <u>certified full capture systems</u> provided the requirements of paragraph 3), immediately below, and any conditions in the certification, continue to be met.</p> <p>3) Caltrans may comply with its effluent limitations through progressive installation of <u>full capture systems</u> throughout its areas until all areas draining to the Los Angeles River system are addressed. For purposes of this Permit, attainment of the effluent limitations shall be conclusively presumed for any drainage area to the Los Angeles River (or its tributaries)⁴ where <u>certified full capture systems</u> treat all drainage from the area, provided that the <u>full capture systems</u> are adequately sized and maintained, and that maintenance records are up-to-date and available for inspection by the Regional Board.</p> <p>i. A Permittee relying entirely on <u>full capture systems</u> shall be deemed in compliance with its final effluent limitation if it demonstrates that all drainage areas under its jurisdiction are serviced by appropriate <u>certified full capture systems</u> as described in paragraph (a)(3).</p> <p>ii. A Permittee relying entirely on <u>full capture systems</u> shall be deemed in compliance with its interim effluent limitations:</p> <p>1. By demonstrating that <u>full capture systems</u> treat the percentage of drainage areas in the watershed that corresponds to the required trash abatement.</p> <p>2. Alternatively, a Permittee may propose a schedule for <u>jurisdiction-wide installation of full capture systems</u>.</p>	

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>targeting first the areas of greatest trash generation (based upon the information on drainage area and litter generation rates by land use provided in Appendices I and III of the Los Angeles River Trash TMDL Staff Report) for the Executive Officer's approval. The Executive Officer shall not approve any such schedule that does not result in timely compliance with the final effluent limitations. A Permittee shall be deemed in compliance with its interim effluent limitations provided it is fully in compliance with any such approved schedule.</p> <p>(b) <u>Partial Capture Devices and Institutional Controls:</u> Caltrans may comply with its interim and final effluent limitations through the installation of <i>partial capture devices</i> and the application of <i>institutional controls</i>.⁵</p> <ol style="list-style-type: none"> 1) <u>Trash discharges from areas serviced solely by <i>partial capture devices</i> may be estimated based on demonstrated performance of the device(s) in the implementing area.⁶ That is, trash reduction is equivalent to the <i>partial capture devices</i>' trash removal efficiency multiplied by the percentage of drainage area serviced by the devices.</u> 2) <u>Except as provided in subdivision 3), below, trash discharges from areas addressed by <i>institutional controls</i> and/or <i>partial capture devices</i> (where site-specific performance data is not available) shall be calculated using a mass balance approach, based on the daily generation rate (DGR) for a representative area.⁷ The DGR shall be determined from direct measurement of trash deposited in the drainage area during any thirty-day period between June 22nd and</u> 	

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>September 22nd exclusive of rain events⁸, and shall be re-calculated every year thereafter. The DGR shall be calculated as the total amount of trash collected during this period divided by 30 (the length of the collection period).</p> <p><u>DGR = (Amount of trash collected during a 30-day collection period⁹) / (30 days)</u></p> <p>The DGR for the applicable area of the jurisdiction shall be extrapolated from that of the representative drainage area. A mass balance equation shall be used to estimate the amount of trash discharged during a storm event.¹⁰ The <i>Storm Event Trash Discharge</i> for a given rain event in a Permittee's drainage area shall be calculated by multiplying the number of days since the last street sweeping by the DGR and subtracting the amount of any trash recovered in the catch basins.¹¹ For each day of a storm event that generates precipitation greater than 0.25 inches, Caltrans shall calculate a <i>Storm Event Trash Discharge</i>.</p> <p><u>Storm Event Trash Discharge = [(Days since last street sweeping * DGR)] - [Amount of trash recovered from catch basins]¹²</u></p> <p>The sum of the <i>Storm Event Trash Discharges</i> for the storm year shall be Caltrans' calculated annual trash discharge.</p> <p><u>Total Storm Year Trash Discharge = Σ Storm Event Trash Discharges from Drainage Area</u></p> <p>3) The Executive Officer may approve alternative compliance monitoring approaches for calculating total storm year trash discharge, upon finding that the program will provide a scientifically-based estimate of the amount of trash discharged from the MS4.</p> <p>(c) Combined Compliance Approaches: Caltrans may comply with its interim and final effluent limitations through a combination of <u>full capture systems, partial capture devices, and institutional controls</u>. Permittees relying on a combination of approaches shall demonstrate compliance with the interim and final effluent limitations as specified in (a)(3)</p>	

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p><u>in areas where full capture systems are installed and as specified in (b)(2) in areas where partial capture devices and institutional controls are applied.</u></p> <p>(2) A Permittee that is not in compliance with the applicable interim and/or final effluent limitation shall be in violation of this permit.</p> <p>(a) A Permittee relying on <u>partial capture devices and/or institutional controls</u> that has violated its interim or final effluent limitation shall be presumed to have violated the applicable limitation for each day of each storm event that generated precipitation greater than 0.25 inches during the applicable storm year, except those storm days on which it establishes that its cumulative Storm Event Trash Discharges has not exceeded the applicable effluent limitation.</p> <p>(b) For a Permittee relying on full capture systems who has failed to demonstrate that the <u>full capture systems</u> for any drainage area are adequately sized and maintained, and that maintenance records are up-to-date and available for inspection by the Regional Board, and that it is in compliance with any conditions of its certification, shall be presumed to have discharged trash in an amount that corresponds to the percentage of the baseline waste load allocation represented by the drainage area in question.</p> <p>1) A Permittee may overcome this presumption by demonstrating (using any of the methods authorized in this Part B(1)(b)) that the actual or calculated discharge for that drainage area is in compliance with the applicable interim or final effluent limitation.</p> <p>(3) Caltrans shall be held liable for violations of the Effluent Limitations assigned to its area. Any Permittee whose compliance strategy includes full or partial capture devices and who chooses to install a full or partial capture device in the MS4 physical infrastructure of another public entity is responsible for obtaining all necessary permits to do so. If a Permittee believes it is unable to obtain the permits needed to install a full capture or partial capture device within another Permittee's MS4 physical infrastructure, either Permittee may request the Executive Officer to hold a conference with the Permittees. Nothing in this Order shall affect the right of that public entity or a Permittee to seek indemnity or other recourse from the other as they deem appropriate. Nothing in this subsection shall be construed as relieving a Permittee of any liability that the Permittee would otherwise have under this Order.</p> <p>C. <u>Monitoring and Reporting Requirements (pursuant to Water Code section 13383)</u></p> <p>(1) On October 31, 2011 and every year thereafter, Caltrans shall submit a TMDL Compliance Report detailing compliance with the interim and final effluent limitations. Reporting shall include the information specified below.</p>	

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>The report shall be submitted on a reporting form to be specified by the Executive Officer. The report shall be signed under penalty of perjury by the Director of Public Works or other agency head (or their delegee) that is responsible for ensuring compliance with this permit. Permittees shall be charged with and shall demonstrate compliance with the relevant effluent limitations beginning with their October 31, 2010 TMDL Compliance Report.</p> <p>(a) <u>Reporting Compliance based on Full Capture Systems:</u> Caltrans shall provide information on the number and location of full capture installations, the sizing of each full capture installation, the drainage areas addressed by these installations, and compliance with the applicable interim or final effluent limitation, in its TMDL Compliance Report. The Regional Board will periodically audit sizing, performance, and other data to validate that a system satisfies the criteria established for a full capture system and any conditions established by the Executive Officer in the certification.</p> <p>(b) <u>Reporting Compliance based on Partial Capture Systems and/or Institutional Controls:</u></p> <p>(1) <u>Using Performance Data Specific to the Jurisdictional Area:</u> Caltrans shall provide (i) site-specific performance data for the applicable device(s), (ii) information on the number and location of such installations, and the drainage areas addressed by these installations, and (iii) calculated compliance with the applicable effluent limitations, in their TMDL Compliance Report.</p> <p>(2) <u>Using Direct Measurement of Trash Discharge:</u> Caltrans shall provide an accounting of DGR and trash removal via street sweeping, catch basin clean outs, etc., in a database to facilitate the calculation of discharge for each rain event. The database shall be maintained and provided to the Regional Board for inspection upon request. Caltrans shall provide the annual DGR, calculated storm year discharge, and compliance with the applicable effluent limitation, in its TMDL Compliance Report.</p> <p>(c) <u>Reporting Compliance based on Combined Compliance Approaches:</u> Caltrans shall provide the information specified in subsection (a) for areas where full capture systems are installed and that specified in subsection (b)(1) or (b)(2), as appropriate, for areas where partial capture devices and institutional controls are applied. Caltrans shall also provide information on compliance with the applicable effluent limitation based on the combined compliance approaches, in its TMDL Compliance Report.</p> <p>(2) <u>Violation of the reporting requirements of this Part shall be punishable pursuant to inter alia Water Code subdivision (a)(1) of section 13385.1 and/or subdivision (a)(3) of section 13385.</u></p>	

TMDL
WLAs/Deliverables/Action Required
**Compliance Date
Due Date**

**Ballona Creek,
Ballona Estuary, and
Sepulveda Channel
Bacteria**

Effective Date: April
27 March
26, 2007

BPA: Attachment A,
Chapter 7-21

Resolution No. R4-
2006-011

WLA

WLAs are held jointly with multiple dischargers.
During the dry weather periods, Caltrans is jointly responsible for achieving the
WLAs identified below for all monitoring sites.

**Dry Weather WLAs for Ballona Creek, Ballona Estuary and Sepulveda
Channel**

<u>Time Period</u>	<u>Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *</u>	<u>Ballona Creek Reach 1**</u>
<u>Summer Dry Weather</u> (April 1 to October 31)	Zero (0) exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	No more than 10% of the Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30- Day Geometric Mean Bacteria Water Quality Objectives
<u>Winter Dry Weather</u> (November 1- March 31)	Three (3) exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	No more than 10% of the Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30- Day Geometric Mean Bacteria Water Quality Objectives

* Exceedance days for Ballona Estuary based on REC-1 marine water numeric
targets; for Ballona Creek Reach 2 based on LREC-1 freshwater numeric targets;
and for Sepulveda Channel, based on fresh water REC-1 numeric targets

**Exceedance frequency for Ballona Creek Reach 1 based on freshwater REC-2
numeric targets

**Dry-weather WLAs for Tributaries to the Impaired Reaches of Ballona Creek
Watershed**

<u>Tributary</u>	<u>Point of Application</u>	<u>Water Quality Objectives</u>	<u>Waste Load Allocation</u> (No. exceedance days)
Ballona Creek Reach 1	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (0) <u>summer dry weather</u> , (3) <u>winter dry weather</u> For geometric mean objectives: (0) <u>for both periods</u>
Benedict Canyon Channel	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (0) <u>summer dry weather</u> , (3) <u>winter dry weather</u> For geometric mean objectives: (0) <u>for both periods</u>
Ballona Creek Reach 2	At confluence with Ballona Estuary	REC-1 Marine water	For single sample objectives: (0) <u>summer dry weather</u> , (3) <u>winter dry weather</u>

April 27, 2017

April 27, 2017

TMDL	WLAs/Deliverables/Action Required			Compliance Date Due Date																						
			For geometric mean objectives: (0) for both periods																							
	Centinela Creek	At confluence with Ballona Estuary	REC-1 Marine water For single sample objectives: (0) summer dry weather, (3) winter dry weather For geometric mean objectives: (0) for both periods																							
<p>Caltrans is jointly responsible for achieving the wet weather WLAs identified in below for all monitoring sites.</p> <p>Wet Weather Weather WLAs for Ballona Creek, Ballona Estuary and Sepulveda Channel</p> <table border="1"> <thead> <tr> <th>Time Period</th> <th>Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *</th> <th>Ballona Creek Reach 1**</th> </tr> </thead> <tbody> <tr> <td><u>Wet-Weather</u> (days with >0.1 inch of rain + 3 days following the rain event)</td> <td>17*** exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives</td> <td>No more than 10% of the Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives</td> </tr> </tbody> </table> <p>* Exceedance days for Ballona Estuary based on REC-1 marine water numeric targets; for Ballona Creek Reach 2 based on LREC-1 freshwater numeric targets; and for Sepulveda Channel, based on fresh water REC-1 numeric targets **Exceedance frequency for Ballona Creek Reach 1 based on freshwater REC-2 numeric targets *** In Reach 2, the greater of the allowable exceedance days under the reference system approach or high flow suspension shall apply.</p> <p>Wet-weather WLAs for tributaries to the Impaired Reaches of Ballona Creek Watershed</p> <table border="1"> <thead> <tr> <th>Tributary</th> <th>Point of Application</th> <th>Water Quality Objectives</th> <th>Wet-weather Waste Load Allocation (No. exceedance days)</th> </tr> </thead> <tbody> <tr> <td>Ballona Creek Reach 1</td> <td>At confluence with Reach 2</td> <td>LREC-1 Freshwater</td> <td>For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather</td> </tr> <tr> <td>Benedict Canyon Channel</td> <td>At confluence with Reach 2</td> <td>LREC-1 Freshwater</td> <td>For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather</td> </tr> <tr> <td>Ballona Creek Reach 2</td> <td>At confluence with Ballona Estuary</td> <td>REC-1 Marine water</td> <td></td> </tr> </tbody> </table>					Time Period	Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *	Ballona Creek Reach 1**	<u>Wet-Weather</u> (days with >0.1 inch of rain + 3 days following the rain event)	17*** exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	No more than 10% of the Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	Tributary	Point of Application	Water Quality Objectives	Wet-weather Waste Load Allocation (No. exceedance days)	Ballona Creek Reach 1	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather	Benedict Canyon Channel	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather	Ballona Creek Reach 2	At confluence with Ballona Estuary	REC-1 Marine water	
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TMDL
WLAs/Deliverables/Action Required
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			objectives: (0) for wet weather
Centinela Creek	At confluence with Ballona Estuary	REC-1 Marine water	For single sample objectives: (17) winter wet weather
			For geometric mean objectives: (0) for wet weather

* At the confluence with Reach 2, the greater of the allowable exceedance days under the reference system approach or high flow suspension shall apply.

Other

Comprehensive Bacteria Water Quality Monitoring Plan for Del Rey Lagoon, Ballona Wetlands, and Ballona Creek Watershed.

Draft Implementation Plan outlining approach for compliance with WLAs.

Submit Final Implementation Plan outlining approach for compliance with WLAs.

March 26 April 27, 2007

March October 26, 2008

September 26, 2009

Three months after receipt of Regional Board comments on Draft Implementation Plan.

Marina del Rey, Harbor Back Basins, Mother's' Beach Bacteria

Effective Date:
March 18, 2004

BPA: Attachment A,
Chapter 7-5

Resolution No.
2003R03-012

WLA
Final Allowable Exceedance Days by Sampling Location

Compliance Deadline		3 years after effective date		6 years after effective date		10 years after effective date	
		Summer Dry Weather ^		Winter Dry Weather ^^		Wet Weather ^^	
		April 1 - October 31		November 1 - March 31		November 1 - October 31	
Station ID	Location Name	Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)
HYP (S9)	Mothers' Beach, at Lifeguard Tower	0	0	3	1	17	3
DHS (109a)	Mothers' Beach, at Playground Area	0	0	3	1	17	3
DHS (109b)	Mothers' Beach, between Lifeguard Tower and Boat Dock	0	0	3	1	17	3
DHS (109c)	Los Angeles County Fire Dock - end of main channel	0	0	3	1	17	3
DHB (MDR-8)	Mothers' Beach, near first slips outside swim area	0	0	3	1	17	3
DHB (MDR-18)	Mothers' Beach, 20 meters off of the wheel chair ramp	0	0	0	0	15	3
DHB (MDR-)	Mothers' Beach, end of	0	0	3	1	17	3

March 18, 2007 – Summer Dry Weather

March 18, 2010 – Winter Dry Weather

March 18, 2014 – Wet Weather None Specified

March 30, 2005 July 16, 2004

July March 30, 2005

March 18 July 30, 2005, 2007

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																								
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<p>Santa Monica Bay Beaches during Dry Weather</p> <p><i>Bacteria</i></p> <p>Effective Date: June 19/July 15, 2003</p> <p>BPA: Attachment A, Chapter 7-4</p> <p>Resolution No. 2002R02-004 and R02-022</p>	<p>WLA</p> <p>WLA is held jointly with multiple dischargers.</p> <p>Caltrans is responsible for achieving the WLAs identified below for all shoreline monitoring sites with the exception of those subject to Antidegradation Provisions.</p> <p>Dry Weather WLAs expressed as the Allowable Number of Exceedance Days</p> <table><tr><th colspan="2">Summer Dry Weather April 1 - October 31</th><th colspan="2">Winter Dry Weather November 1 - March 31</th></tr><tr><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th></tr><tr><td>0</td><td>0</td><td>3</td><td>1</td></tr></table> <p>During the winter dry weather period, Caltrans is responsible for achieving the WLAs identified below for shoreline monitoring sites subject to antidegradation provisions.</p> <p>Winter Dry Weather WLAs expressed as the Allowable Number of Exceedance Days for Shoreline Monitoring Sites subject to Antidegradation Provisions</p> <table><tr><th rowspan="2">Station ID</th><th rowspan="2">Location Name</th><th colspan="2">Winter Dry Weather Nov. 1-Mar. 31</th></tr><tr><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th></tr><tr><td>SMB 1-4</td><td>Trancas Beach</td><td>0</td><td>0</td></tr><tr><td>SMB 1-5</td><td>Westward Beach</td><td>0</td><td>0</td></tr><tr><td>SMB 2-13</td><td>Imperial Highway Storm Drain</td><td>2</td><td>1</td></tr><tr><td>SMB 3-8</td><td>Windward Ave Storm Drain</td><td>2</td><td>1</td></tr><tr><td>SMB 4-1</td><td>Nicholas Beach</td><td>0</td><td>0</td></tr></table>	Summer Dry Weather April 1 - October 31		Winter Dry Weather November 1 - March 31		Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	0	0	3	1	Station ID	Location Name	Winter Dry Weather Nov. 1-Mar. 31		Daily sampling (No. days)	Weekly sampling (No. days)	SMB 1-4	Trancas Beach	0	0	SMB 1-5	Westward Beach	0	0	SMB 2-13	Imperial Highway Storm Drain	2	1	SMB 3-8	Windward Ave Storm Drain	2	1	SMB 4-1	Nicholas Beach	0	0	<p>None Specified</p> <p>October 19/November 12, 2003</p> <p>October 19/November 12, 2003</p> <p>July 15, 2006 – Summer Dry Weather</p> <p>November 1, 2009 – Winter Dry Weather</p>		
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<p>Santa Monica Bay Beaches during Wet Weather -Bacteria</p> <p>Effective Date: June 19 July 15,</p>	<p>WLA WLA is held jointly with multiple dischargers.</p> <p>Other Coordinated Monitoring Plan</p>																																																																								

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2003 BPA: Attachment A to Resolution No. 2002-022, Chapter 7-4.4, 7-4.5, 7-4.6, 7-4.7. Resolution No. 2002R02-002022, 2006-005, 2006-006, 2006-007, 2006-008	Draft Implementation Plan outlining approach for compliance with WLAs. Final Implementation Plan outlining approach for compliance with WLAs.	February 19, 2005 June 19, 2005																					
Malibu Creek and Lagoon Bacteria Effective Date: January 1024, 2006 BPA: Attachment A, Chapter 7-10 Resolution No. 2004R04-019R	<u>Wasteload Allocation WLA</u> WLA is held jointly with multiple dischargers. Dry Weather WLAs expressed as the Allowable Number of Exceedance Days <table><tr><th colspan="2">Summer Dry Weather April 1 - October 31</th><th colspan="2">Winter Dry Weather November 1 - March 31</th></tr><tr><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th></tr><tr><td>0</td><td>0</td><td>3</td><td>1</td></tr></table> Wet Weather WLAs expressed as the Allowable Number of Exceedance Days <table><tr><th colspan="2">Wet Weather</th></tr><tr><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th></tr><tr><td>17</td><td>3</td></tr></table> <u>Caltrans is responsible for achieving the rolling 30-day geometric mean targets, which shall not be exceeded at any time.</u> None specified <u>Other</u> Submit a Comprehensive bacteria water quality monitoring plan for the Malibu Creek Watershed to the Executive Officer of the Regional Board. Written Report to outline how the Department intends to cooperatively achieve compliance with TMDL, and steps to 3-year summer dry weather compliance schedule with a detailed timeline for all categories of bacteria sources. Reference Watershed Study	Summer Dry Weather April 1 - October 31		Winter Dry Weather November 1 - March 31		Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	0	0	3	1	Wet Weather		Daily sampling (No. days)	Weekly sampling (No. days)	17	3	None Specified April 1, 2009 – Summer Dry Weather January 24, 2012 – Winter Dry Weather January 24, 2016 – Wet Weather May 10, 2006 January 10, 2007 January 10, 2008			
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17	3																						
Harbor Beaches of Ventura County (Kiddie Beach and Hobie Beach) Bacteria Effective Date: December 18, 2008 BPA: Attachment A Chapter 7-28 Resolution No. R2007-017	<u>WLA</u> Interim WLAs for Single Sample and 30-day rolling geometric mean Exceedances: <u>Summer Dry-Weather</u> <table><tr><th>Location</th><th>Daily Sampling</th><th>Weekly Sampling</th></tr><tr><td>Kiddie Beach</td><td>54</td><td>8</td></tr><tr><td>Hobie Beach</td><td>40</td><td>6</td></tr></table> <u>Winter Dry-Weather</u> <table><tr><th>Location</th><th>Daily Sampling</th><th>Weekly Sampling</th></tr><tr><td>Kiddie Beach</td><td>23</td><td>4</td></tr><tr><td>Hobie Beach</td><td>25</td><td>4</td></tr></table> <u>Wet-Weather</u> <table><tr><th>Location</th><th>Daily Sampling</th><th>Weekly Sampling</th></tr></table>	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	54	8	Hobie Beach	40	6	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	23	4	Hobie Beach	25	4	Location	Daily Sampling	Weekly Sampling	December 18, 2008 On-going December 18, 2008 On-going
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TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																				
	<table><tr><td>Kiddie Beach</td><td>32</td><td>5</td></tr><tr><td>Hobie Beach</td><td>38</td><td>6</td></tr></table>	Kiddie Beach	32	5	Hobie Beach	38	6																															
Kiddie Beach	32	5																																				
Hobie Beach	38	6																																				
	<p>30-day Rolling Geometric Mean Exceedances (Summer):</p> <table><tr><td>Location</td><td>Daily Sampling</td><td>Weekly Sampling</td></tr><tr><td>Kiddie Beach</td><td>55</td><td>8</td></tr><tr><td>Hobie Beach</td><td>80</td><td>12</td></tr></table>	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	55	8	Hobie Beach	80	12	<p>December 18, 2008On-going</p>																											
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	<p>30-day Rolling Geometric Mean Exceedances (Winter):</p> <table><tr><td>Location</td><td>Daily Sampling</td><td>Weekly Sampling</td></tr><tr><td>Kiddie Beach</td><td>92</td><td>14</td></tr><tr><td>Hobie Beach</td><td>91</td><td>13</td></tr></table>	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	92	14	Hobie Beach	91	13	<p>December 18, 2008On-going</p>																											
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	<p>Final Allowable Exceedance Days:</p> <table><tr><td rowspan="3">Location</td><td colspan="2">Summer-dry Weather</td><td colspan="2">Winter-dry Weather</td></tr><tr><td>Daily Sampling</td><td>Weekly Sampling</td><td>Daily Sampling</td><td>Weekly Sampling</td></tr><tr><td>(No. days)</td><td>(No. days)</td><td>(No. days)</td><td>(No. days)</td></tr><tr><td>Kiddie Beach</td><td>0</td><td>0</td><td>3</td><td>1</td></tr><tr><td>Hobie Beach</td><td>0</td><td>0</td><td>3</td><td>1</td></tr></table> <table><tr><td rowspan="3">Location</td><td colspan="2">Wet-Weather</td></tr><tr><td>Daily Sampling</td><td>Weekly Sampling</td></tr><tr><td>(No. days)</td><td>(No. days)</td></tr><tr><td>Kiddie Beach</td><td>17</td><td>3</td></tr><tr><td>Hobie Beach</td><td>17</td><td>3</td></tr></table>	Location	Summer-dry Weather		Winter-dry Weather		Daily Sampling	Weekly Sampling	Daily Sampling	Weekly Sampling	(No. days)	(No. days)	(No. days)	(No. days)	Kiddie Beach	0	0	3	1	Hobie Beach	0	0	3	1	Location	Wet-Weather		Daily Sampling	Weekly Sampling	(No. days)	(No. days)	Kiddie Beach	17	3	Hobie Beach	17	3	<p>December 18, 2008</p>
Location	Summer-dry Weather		Winter-dry Weather																																			
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	<p><u>The WLA for the rolling 30-day geometric mean during any time period or monitoring site is zero (0) days of allowable exceedances.</u></p>	<p>Five years after effective date of TMDLDecember 18, 2013</p>																																				
	<p>Other</p> <p><u>Submit</u> Monitoring Plan for approval by Executive Officer.</p> <p><u>Submit</u> Draft Dry-Weather Workplan to implement source control BMPs</p> <p><u>Submit</u> Workplan piloting structural BMPs (optional)</p> <p>Final Dry—Weather Workplan to implement source control and BMPs</p> <p><u>Submit</u> Final Wet-Weather Workplan: to implement source control and BMPs.</p> <p><u>Submit</u> Compliance Report for dry-weather, interim wet-weather allocations, and rolling 30-day geometric mean targets</p> <p><u>Submit</u> Final Compliance Report</p> <p>Final WLAs Compliance</p>	<p>Ten years after effective date of TMDLDecember 18, 2018</p> <p>December 18, 2013</p> <p>Prior to the modification of existing monitoring locations or frequencies.</p>																																				

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																		
		June 18, 2009 ¹⁰ June 18, 2010 June 18, 2012 December 18, 2012 December 18, 2014 and December 18, 2016 December 18, 2018 December 18, 2018																																		
Ballona Creek Metals Effective Date: December 22, 2005 and reaffirmed on October 29, 2008 BPA: Attachment A, Chapter 7-12 and Attachment B. Resolution No. R05-007 and Resolution No. R2007-015	WLA Dry-weather storm-water WLAs (grams total recoverable metals/day): <table><tr><td></td><td>Ballona Creek</td><td>Sepulveda</td></tr><tr><td>Copper</td><td>11.2</td><td>5.1</td></tr><tr><td>Lead</td><td>6.0</td><td>2.7</td></tr><tr><td>Selenium</td><td>2.0</td><td>1</td></tr><tr><td>Zinc</td><td>143.1</td><td>64.7</td></tr></table> Wet-weather storm-water WLAs (total recoverable metals) for all reaches and tributaries (grams/day): Copper - 2.37E-07 x Daily storm water volume (L) Lead - 7.78E-07 x Daily storm water volume (L) Selenium - 6.59E-08 x Daily storm water volume (L) Zinc - 1.57E-06 x Daily storm water volume (L) Other Coordinated Monitoring Plan, including both ambient and TMDL effectiveness monitoring. Draft Report outlining approach for compliance with WLA Final Report outlining approach for compliance with WLA.		Ballona Creek	Sepulveda	Copper	11.2	5.1	Lead	6.0	2.7	Selenium	2.0	1	Zinc	143.1	64.7	None Specified 01/11/2012 - 50% area meeting dry-weather WLAs 01/11/2014 - 75% area meeting dry-weather WLAs 01/11/2016 - 100% area meeting dry-weather WLAs None Specified 01/11/2012 - 25% area meeting wet-weather WLAs 01/11/2016 - 50% area meeting wet-weather WLAs 01/11/2021 - 100% area meeting wet-weather WLAs January 11, 2007 January 11, 2010 July 11, 2010																			
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Calleguas Creek and Its Tributaries and Mugu Lagoon Metals and Selenium Effective Date: March 26 ⁷ , 2007 BPA: Attachment A, Chapter 7-19 Resolution No. R4-2006-012	WLA The Department and other responsible jurisdictions are jointly assigned WLAs. Interim WLAs for mercury in sediment are mass-based. <u>Interim Limits and Final WLAs for Total Recoverable Copper, Nickel, and Selenium</u> A. Interim Limits <table><tr><th rowspan="2">Constituents</th><th colspan="3">Calleguas and Conejo Creek</th><th colspan="3">Revolon Slough</th></tr><tr><th>Dry CMC (ug/L)</th><th>Dry CCC (ug/L)</th><th>Wet CMC (ug/L)</th><th>Dry CMC (ug/L)</th><th>Dry CCC (ug/L)</th><th>Wet CMC (ug/L)</th></tr><tr><td>Copper*</td><td>23</td><td>19</td><td>204</td><td>23</td><td>19</td><td>204</td></tr><tr><td>Nickel</td><td>15</td><td>13</td><td>(a)</td><td>15</td><td>13</td><td>(a)</td></tr><tr><td>Selenium</td><td>(b)</td><td>(b)</td><td>(b)</td><td>14</td><td>13</td><td>(a)</td></tr></table>	Constituents	Calleguas and Conejo Creek			Revolon Slough			Dry CMC (ug/L)	Dry CCC (ug/L)	Wet CMC (ug/L)	Dry CMC (ug/L)	Dry CCC (ug/L)	Wet CMC (ug/L)	Copper*	23	19	204	23	19	204	Nickel	15	13	(a)	15	13	(a)	Selenium	(b)	(b)	(b)	14	13	(a)	None-Specified June-March 26 ⁷ , 2007
Constituents	Calleguas and Conejo Creek			Revolon Slough																																
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TMDL

WLAs/Deliverables/Action Required

**Compliance Date
Due Date**

- (a) The current loads do not exceed the TMDL under wet conditions; interim limits are not required.
- (b) Selenium allocations have not been developed for this reach as it is not on the 303(d) list.
- (c) Attainment of interim limits will be evaluated in consideration of background loading data, if available.

B. Final WLAs for Total Recoverable Copper, Nickel, and Selenium

Dry-Weather WLAs in Water Column

Flow Range	Calleguas and Conejo Creek			Revolon Slough		
	Low Flow	Average Flow	Elevated Flow	Low Flow	Average Flow	Elevated Flow
Copper ¹ (lbs/day)	0.04*WER 0.02	0.12*WER 0.02	0.18*WER 0.03	0.03*WER - 0.01	0.06*WER - 0.03	0.13*WER 0.02
Nickel (lbs/day)	0.100	0.120	0.440	0.050	0.069	0.116
Selenium (lbs/day)	(a)	(a)	(a)	0.004	0.003	0.004

¹ If site-specific WERs are approved by the Regional Board, TMDL waste load allocations shall be implemented in accordance with the approved WERs using the equations set forth above. Regardless of the final WERs, total copper loading shall not exceed current loading.

- (a) Selenium allocations have not been developed for this reach as it is not on the 303(d) list.

Wet-Weather WLAs in Water Column

Constituent	Calleguas Creek	Revolon Slough
Copper ¹ (lbs/day)	$(0.00054*Q^2 + 0.032*Q - 0.17)*WER - 0.06$	$(0.0002*Q^2 + 0.0005*Q)*WER$
Nickel ² (lbs/day)	$0.014*Q^2 + 0.82*Q$	$0.027*Q^2 + 0.47*Q$
Selenium ² (lbs/day)	(a)	$0.027*Q^2 + 0.47*Q$

¹ If site-specific WERs are approved by the Regional Board, TMDL waste load allocations shall be implemented in accordance with the approved WERs using the equations set forth above. Regardless of the final WERs, total copper loading shall not exceed current loading.

- ² Current loads do not exceed loading capacity during wet weather. Sum of all loads cannot exceed loads presented in the table
- (a) Selenium allocations have not been developed for this reach as it is not on the 303(d) list. Q: Daily storm volume.

Interim Limits and Final WLAs for Mercury in Suspended Sediment

Final WLAs are set at 80% reduction of HSPF load estimates. Interim limits for mercury in suspended sediment are set equal to the highest annual load within each flow category, based on HSPF output for the years 1993-2003.

Flow Range	Calleguas Creek		Revolon Slough	
	Interim (lbs/yr)	Final (lbs/yr)	Interim (lbs/yr)	Final (lbs/yr)
0-15,000 MGY	3.3	0.4	1.7	0.1
15,000-25,000 MGY	10.5	1.6	4	0.7
Above 25,000 MGY	64.6	9.3	10.2	1.8

March 267, 2012 –
25% reduction in
difference between
current loads and final
WLA

March 267, 2017 –
50% reduction in
difference between
current loads and final
WLA

March 267, 2022 –
Achieve final WLAs

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p><u>MGY: million gallons per year.</u></p> <p>Other Submit Calleguas Creek Watershed Metals and Selenium Monitoring Program</p> <p>Implement Calleguas Creek Watershed Metals and Selenium Monitoring Program</p> <p>Conduct a source control study, develop and submit an Urban Water Quality Management Program (UWQMP) for copper, mercury, nickel, and selenium.</p> <p>Implement UWQMP</p> <p>Evaluate the results of the OCs TMDL, Special Study for calculation of sediment transport rates.</p> <p>Evaluate results of the OC pesticides TMDL, Special Study – Calculation of sediment transport rates in the Calleguas Creek Watershed for applicability to the metals and selenium TMDL.</p> <p><u>Include monitoring for copper, mercury, nickel, and selenium in the OC pesticides TMDL, Special Study – Monitoring of sediment by source and land use type</u></p> <p><u>Evaluate the results of the OC Pesticides TMDL, Special Study – Effects of BMPs on Sediment and Siltation to determine the impacts on metals and selenium</u></p> <p><u>Submit results of Special Study #2: Identification of Selenium Contaminated Groundwater Sources</u></p> <p><u>Workplan for Submit results of Special Study #3: Investigation of Metals' "Hot Spot" and Natural Soil.</u></p> <p>Evaluate the effectiveness of BMPs implemented under the UWQMP</p> <p>Evaluate the results of implementation actions Special Studies #2 and #3 and implement actions identified by studies.</p>	<p><u>March 267, 2007 – Interim Limits for Mercury in Suspended Sediment</u></p> <p><u>March 267, 2022 – Final WLAs for Mercury in Suspended Sediment</u></p> <p><u>Within three months of Executive Officer approval of the monitoring program April 30, 2009</u></p> <p><u>March 267, 2009</u></p> <p><u>Within one year of approval of UWQMP by the Executive Officer.</u></p> <p><u>Within six months of cCompletion of Study</u></p> <p><u>March 267, 2009</u></p> <p><u>Within six months of completion of study</u></p> <p><u>Within one year of approval of Workplan by Executive Officer</u></p> <p><u>Within two years of approval of Workplan by Executive Officer</u></p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																																								
		<p><u>March 26, 2013</u></p> <p><u>Within one year of the completion of sStudies</u> <u>Within two years of approval of Workplan by Executive Officer.</u></p> <p><u>March 26, 2013</u></p> <p><u>Within one year of the completion of Studies</u></p>																																																								
<p>Los Angeles River Metals</p> <p>Effective Date: December 22, 2005 and October 29, 2008</p> <p>BPA: Attachment A, Chapter 7-13 and Attachment B.</p> <p>Resolution Nos. R10-003, R05-006, and R2007-014</p>	<p>WLA</p> <p>Dry-weather WLAs - total recoverable metals (kg/day):</p> <table><tr><td></td><td>Cu</td><td>Pb</td><td>Zn</td></tr><tr><td>LA River Reach 6</td><td>0.53</td><td>0.33</td><td></td></tr><tr><td>LA River Reach 5</td><td>0.05</td><td>0.03</td><td></td></tr><tr><td>LA River Reach 4</td><td>0.32</td><td>0.12</td><td></td></tr><tr><td>LA River Reach 3</td><td>0.06</td><td>0.03</td><td></td></tr><tr><td>LA River Reach 2</td><td>0.13</td><td>0.07</td><td></td></tr><tr><td>LA River Reach 1</td><td>0.14</td><td>0.07</td><td></td></tr><tr><td>Bell Creek</td><td>0.06</td><td>0.04</td><td></td></tr><tr><td>Tujunga Wash</td><td>0.001</td><td>0.0002</td><td></td></tr><tr><td>Burbank Channel</td><td>0.15</td><td>0.07</td><td></td></tr><tr><td>Verdugo Wash</td><td>0.18</td><td>0.10</td><td></td></tr><tr><td>Arroyo Seco</td><td>0.01</td><td>0.01</td><td></td></tr><tr><td>Rio Hondo Reach 1</td><td>0.01</td><td>0.006</td><td>0.16</td></tr><tr><td>Compton Creek</td><td>0.04</td><td>0.02</td><td></td></tr></table> <p>Wet-weather WLAs - total recoverable metals (kg/day):</p> <p>Cadmium - $WER \times 5.3 \times 10^{-11} \times \text{daily volume (L)} - 0.03$</p> <p>Copper - $WER \times 2.9 \times 10^{-10} \times \text{daily volume (L)} - 0.2$</p> <p>Lead - $WER \times 1.06 \times 10^{-9} \times \text{daily volume (L)} - 0.07$</p> <p>Zinc - $WER \times 1.2 \times 10^{-9} \times \text{daily volume (L)} - 1.6$</p> <p>Note: Water effects ratio (WER(s)) have a default value of 1.0 unless site-specific WER(s) are approved by the Regional Board.</p> <p>Other</p> <p>Coordinated Monitoring Plan</p> <p>Draft Report outlining approach for compliance with WLAs that includes implementation methods, implementation schedules, proposed milestones, and any revisions to the TMDL effectiveness.</p> <p>Final Report outlining WLAs compliance.</p>		Cu	Pb	Zn	LA River Reach 6	0.53	0.33		LA River Reach 5	0.05	0.03		LA River Reach 4	0.32	0.12		LA River Reach 3	0.06	0.03		LA River Reach 2	0.13	0.07		LA River Reach 1	0.14	0.07		Bell Creek	0.06	0.04		Tujunga Wash	0.001	0.0002		Burbank Channel	0.15	0.07		Verdugo Wash	0.18	0.10		Arroyo Seco	0.01	0.01		Rio Hondo Reach 1	0.01	0.006	0.16	Compton Creek	0.04	0.02		<p>None Specified</p> <p><u>01/11/2012 - 50% area meeting dry-weather WLAs</u></p> <p><u>01/11/2020 - 75% area meeting dry-weather WLAs</u></p> <p><u>01/11/2024 - 100% area meeting dry-weather WLAs</u></p> <p><u>01/11/2012 - 25% area meeting wet-weather WLAs</u></p> <p><u>01/11/2024 - 50% area meeting wet-weather WLAs</u></p> <p><u>01/11/2028 - 100% area meeting wet-weather WLAs</u></p> <p>April 11, 2007</p> <p>January 11, 2010</p> <p>July 11, 2010</p>
	Cu	Pb	Zn																																																							
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<p>Ballona Creek Estuary Toxic Pollutants</p> <p>Effective Date: December 22,</p>	<p>WLA</p> <p>Metals WLAs for sediment in storm water (kg/yr)</p> <table><tr><td>Cadmium -</td><td>0.11</td></tr><tr><td>Copper -</td><td>3.2</td></tr><tr><td>Lead -</td><td>4.4</td></tr><tr><td>Silver -</td><td>0.09</td></tr></table>	Cadmium -	0.11	Copper -	3.2	Lead -	4.4	Silver -	0.09	<p>None Specified</p> <p><u>01/11/2013 - 25% area meeting WLAs</u></p> <p><u>01/11/2015 - 50% area</u></p>																																																
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TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
<p>2005 January 11, 2006</p> <p>BPA: Attachment A, Chapter 7-14</p> <p>Resolution No. R4-2005-008</p>	<p>Zinc - 14</p> <p>Organics WLAs for sediment in storm water (g/yr)</p> <p>Chlordane - 0.05</p> <p>DDTs - 0.15</p> <p>Total PCBs - 2</p> <p>Total PAHs - 400</p> <p>Other</p> <p><u>Submit</u> Coordinated Monitoring Plan</p> <p><u>Submit</u> Draft report outlining approach for WLAs that includes implementation methods, implementation schedules, proposed milestones, and any revisions to TMDL effectiveness monitoring plan.</p> <p><u>Submit</u> Final report outlining approach for WLAs compliance.</p> <p>Demonstrate that 25% of the total drainage area served by MS4 system is effectively meeting the WLA for sediment.</p> <p>Demonstrate that 50% of total drainage area served by the MS4 system is effectively meeting the WLA for sediment.</p> <p>Demonstrate that 75% of total drainage area served by the MS4 system is effectively meeting the WLA for sediment.</p> <p>Demonstrate that 100% of total drainage area served by the MS4 system is effectively meeting the WLA for sediment.</p>	<p>meeting WLAs</p> <p>01/11/2017 - 75% area meeting WLAs</p> <p>01/11/2021 - 100% area meeting WLAs</p> <p>None Specified</p> <p>December 22, 2006 January 11, 2007</p> <p>December 22, 2010 January 11, 2011</p> <p>July 11, 2011</p> <p>December 22, 2012</p> <p>2014</p> <p>December 22, 2016</p> <p>2020</p>
<p>Marina del Rey Harbor Toxic Pollutants</p> <p>Effective Date: March 1622, 2006</p> <p>BPA: Attachment A Chapter 7-18</p> <p>Resolution No. R4-2005-012</p>	<p>WLA</p> <p>A grouped mass-based WLA is developed for storm water permittees by subtracting the load allocations from the total loading capacity.</p> <p>Metals storm water WLAs Apportioned between Permits (kg/yr):</p> <p>Copper - 0.022</p> <p>Lead - 0.03</p> <p>Zinc - 0.096</p> <p>Organics storm water WLAs Apportioned between Permits (g/yr)</p> <p>Chordane - 0.0003</p> <p>Total PCBs - 0.015</p> <p>Other</p> <p><u>Submit</u> Coordinated Monitoring Plan</p> <p><u>Submit</u> Results of any Special Studies</p> <p><u>Submit</u> Draft report outlining approach for compliance with WLAs that includes implementation methods, implementation schedule, proposed milestones, and any revisions to TMDL effectiveness.</p> <p><u>Submit</u> Final report outlining approach for WLAs compliance with WLAs.</p>	<p>None Specified</p> <p>None Specified</p> <p>If pursuing a TMDL Specific Implementation Plan</p> <p>01/11/2014 - 50% area meeting WLAs</p> <p>01/11/2016 - 100% area meeting WLAs</p> <p>If pursuing thean integrated approach</p> <p>01/11/2013 - 25% area meeting WLAs</p> <p>01/11/2015 - 50% area meeting WLAs</p> <p>01/11/2017 - 75% area meeting WLAs</p> <p>01/11/2021 - 100% area meeting WLAs</p> <p>March 1622, 2007</p> <p>March 1622, 2011</p> <p>March 1622, 2011</p> <p>March 1622, 2014</p> <p>September 1622, 2011</p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																																																																																																												
	<p>If pursuing a TMDL Specific Implementation Plan Demonstrate that 50% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</p> <p>Demonstrate that 100% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</p> <p>If pursuing the integrated approach Demonstrate that 25% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</p> <p>Demonstrate that 50% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</p> <p>Demonstrate that 75% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</p> <p>Demonstrate that 100% of the total drainage area served by the MS4 system is effectively meeting the WLAs for sediment.</p>	<p>March 16, 2014</p> <p>March 16, 2016</p> <p>March 16, 2013</p> <p>March 16, 2015</p> <p>March 16, 2017</p> <p>March 16, 2021</p>																																																																																																																												
<p>Calleguas Creek, Its Tributaries and Mugu Lagoon Organochlorine Pesticides (OC), Polychlorinated Biphenyls (PCBs), and Siltation</p> <p>Effective Date: March 14, 2006</p> <p>BPA: Attachment A, Chapter 7-17 17, adopted July 7, 2005</p> <p>Resolution No. R4-2005-010</p>	<p>WLA WLAs are held jointly with multiple dischargers.</p> <p>1. Interim and Final WLAs for Pollutants in Sediment for Stormwater Permittees</p> <p>a) Interim WLAs (ng/g)</p> <table><tr><th rowspan="2">Constituent</th><th colspan="6">Subwatershed</th></tr><tr><th>Mugu Lagoon¹</th><th>Calleguas Creek</th><th>Revolon Slough</th><th>Arroyo Las Posas</th><th>Arroyo Simi</th><th>Conejo Creek</th></tr><tr><td>Chlordane</td><td>25.0</td><td>17.0</td><td>48.0</td><td>3.3</td><td>3.3</td><td>3.4</td></tr><tr><td>4,4-DDD</td><td>69.0</td><td>66.0</td><td>400.0</td><td>290.0</td><td>14.0</td><td>5.3</td></tr><tr><td>4,4-DDE</td><td>300.0</td><td>470.0</td><td>1,600.0</td><td>950.0</td><td>170.0</td><td>20.0</td></tr><tr><td>4,4-DDT</td><td>39.0</td><td>110.0</td><td>690.0</td><td>670.0</td><td>25.0</td><td>2.0</td></tr><tr><td>Dieldrin</td><td>19.0</td><td>3.0</td><td>5.7</td><td>1.1</td><td>1.1</td><td>3.0</td></tr><tr><td>PCBs</td><td>180.0</td><td>3,800.0</td><td>7,600.0</td><td>25,700.0</td><td>25,700.0</td><td>3,800.0</td></tr><tr><td>Toxaphene</td><td>22,900.0</td><td>260.0</td><td>790.0</td><td>230.0</td><td>230.0</td><td>260.0</td></tr></table> <p>b) Final WLAs (ng/g)</p> <table><tr><th rowspan="2">Constituent</th><th colspan="6">Subwatershed</th></tr><tr><th>Mugu Lagoon¹</th><th>Calleguas Creek</th><th>Revolon Slough</th><th>Arroyo Las Posas</th><th>Arroyo Simi</th><th>Conejo Creek</th></tr><tr><td>Chlordane</td><td>3.3</td><td>3.3</td><td>0.9</td><td>3.3</td><td>3.3</td><td>3.3</td></tr><tr><td>4,4-DDD</td><td>2.0</td><td>2.0</td><td>2.0</td><td>2.0</td><td>2.0</td><td>2.0</td></tr><tr><td>4,4-DDE</td><td>2.2</td><td>1.4</td><td>1.4</td><td>1.4</td><td>1.4</td><td>1.4</td></tr><tr><td>4,4-DDT</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td></tr><tr><td>Dieldrin</td><td>4.3</td><td>0.2</td><td>0.1</td><td>0.2</td><td>0.2</td><td>0.2</td></tr><tr><td>PCBs</td><td>180.0</td><td>120.0</td><td>130.0</td><td>120.0</td><td>120.0</td><td>120.0</td></tr><tr><td>Toxaphene</td><td>360.0</td><td>0.6</td><td>1.0</td><td>0.6</td><td>0.6</td><td>0.6</td></tr></table> <p>¹ The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.</p> <p>2. Siltation WLA for MS4</p> <p>MS4 dischargers will receive an allocation of 2,496-tons/yr. reduction in sediment yield to Mugu Lagoon. The baseline from which the load reduction will be evaluated will be determined by a special study of this TMDL. The load allocation will apply after the baseline is established, as described in the Implementation Plan.</p> <p>Other Workplan for OC pesticides and PCBs or an Integrated Calleguas Creek Watershed OC pesticide and PCBs Monitoring Program.</p> <p>Initiate OC pesticide, PCBs, and siltation Monitoring Program</p>	Constituent	Subwatershed						Mugu Lagoon ¹	Calleguas Creek	Revolon Slough	Arroyo Las Posas	Arroyo Simi	Conejo Creek	Chlordane	25.0	17.0	48.0	3.3	3.3	3.4	4,4-DDD	69.0	66.0	400.0	290.0	14.0	5.3	4,4-DDE	300.0	470.0	1,600.0	950.0	170.0	20.0	4,4-DDT	39.0	110.0	690.0	670.0	25.0	2.0	Dieldrin	19.0	3.0	5.7	1.1	1.1	3.0	PCBs	180.0	3,800.0	7,600.0	25,700.0	25,700.0	3,800.0	Toxaphene	22,900.0	260.0	790.0	230.0	230.0	260.0	Constituent	Subwatershed						Mugu Lagoon ¹	Calleguas Creek	Revolon Slough	Arroyo Las Posas	Arroyo Simi	Conejo Creek	Chlordane	3.3	3.3	0.9	3.3	3.3	3.3	4,4-DDD	2.0	2.0	2.0	2.0	2.0	2.0	4,4-DDE	2.2	1.4	1.4	1.4	1.4	1.4	4,4-DDT	0.3	0.3	0.3	0.3	0.3	0.3	Dieldrin	4.3	0.2	0.1	0.2	0.2	0.2	PCBs	180.0	120.0	130.0	120.0	120.0	120.0	Toxaphene	360.0	0.6	1.0	0.6	0.6	0.6	<p>None Specified</p> <p>March 26, 2006 – Interim WLAs</p> <p>March 26, 2026 – Final WLAs</p> <p>March 24, 2015</p> <p>September 14, 2006</p>
Constituent	Subwatershed																																																																																																																													
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TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>Workplan to identify urban, industrial and domestic sources of OC pesticides, PCBs, control methods, and methods to implement collection and disposal.</p> <p>Special Study #1 <u>Submit Workplan and convene a Science Advisory Panel to quantify sedimentation to Mugu Lagoon and sediment transport throughout the Calleguas Creek Watershed</u></p> <p>Special Study #2 <u>Conduct study to identify land areas with high OC pesticides and PCBs concentrations and submit workplan to mitigate loadings from these areas.</u></p> <p>Implement a collection and disposal program for OC pesticides and PCBs.</p> <p>Special Study #1: <u>Submit results and recommendations for refining siltation allocations</u></p> <p><u>Re-evaluation of Siltation load allocation and WLA</u></p> <p>Special Study #3: evaluate natural attenuation rates, methods to accelerate attenuation, and examine WLA attainability.</p>	<p>Six months after Executive Officer Approval of Monitoring Program <u>August 10, 2008</u></p> <p>March <u>1424</u>, 2007</p> <p>March <u>1424</u>, 2007</p> <p>March <u>1424</u>, 2007</p> <p>March <u>1424</u>, 2011</p> <p>March <u>1424</u>, 2014</p> <p>March <u>1424</u>, 2015</p> <p>March <u>1424</u>, 2016</p>
<p>Los Angeles River Nitrogen Compounds</p> <p>Effective Date: March <u>1823</u>, 2004</p> <p>BPA: Attachment A, Chapter 7-8</p> <p>Resolution No. <u>R03-009 and R03-016</u></p>	<p>WLA WLA is held jointly with multiple dischargers.</p> <p>a) <u>Ammonia wasteload allocations (WLAs) for minor point sources are listed below by receiving waters:</u></p> <p style="text-align: center;"><u>Water Body</u> <u>One-hour average WLA</u> <u>Thirty-day average WLA</u></p> <p><u>Los Angeles River above Los Angeles-Glendale WRP (LAG)</u> <u>4.7 mg/L</u> <u>1.6 mg/L</u></p> <p><u>Los Angeles River below LAG</u> <u>8.7 mg/L</u> <u>2.4 mg/L</u></p> <p><u>Los Angeles Tributaries</u> <u>10.1 mg/L</u> <u>2.3 mg/L</u></p> <p>b) <u>WLAs for nitrate-nitrogen, nitrite-nitrogen, and nitrate-nitrogen plus nitrite-nitrogen for minor discharges are listed below:</u></p> <p style="text-align: center;"><u>Constituent</u> <u>Thirty-day average WLA</u></p> <p><u>NO₃-N</u> <u>8.0 mg/L</u></p> <p><u>NO₂-N</u> <u>1.0 mg/L</u></p> <p><u>NO₃-N + NO₂-N</u> <u>8.0 mg/L</u></p>	<p>March <u>23</u>, 2004 None Specified</p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>Other Submit a Monitoring Workplan to estimate nitrogen loadings from storm drain system.</p> <p>Workplan to evaluate effectiveness of nitrogen reductions.</p>	<p>March 18²³, 2005</p> <p>March 18, 2005</p>
<p>Machado Lake <i>Eutrophic, Algae, Ammonia, and Odors (Nutrient)</i></p> <p>Effective Date: March 11, 2009</p> <p>BPA: Attachment A, Chapter 7-29</p> <p>Resolution No. 008R08-006</p>	<p>WLA</p> <p>Interim WLAs for Total Phosphorus (1.25 mg/L) and Total Nitrogen ((3.50 mg/L) is measured in the lake.</p> <p>5 Year interim WLA for Total Phosphorus (1.25 mg/L)</p> <p>5 Year interim WLA for Total Nitrogen (2.45 mg/L)</p> <p>Final WLAs for Total Phosphorus (0.10 mg/L) and Total Nitrogen (1.0 mg/L)</p> <p>Other <u>Submit</u> Monitoring and Reporting Program- (MRP) Plan</p> <p><u>Begin monitoring as outlined in approved MRP plan</u>Optional - Special Study #3 workplan</p> <p>Optional - Special Studies #1 and #2</p> <p><u>Submit</u> TMDL Implementation Plan (including BMPs)</p> <p><u>Begin</u> implementation of BMPs to address discharges from storm drains, as set forth in TMDL Implementation Plan (60 days from approval of Implementation Plan)</p> <p>Annual Monitoring Reports</p> <p>Optional Special Study #3 Final Report</p> <p>Alternative mass-based WLA option: MRP and TMDL Implementation Plans</p> <p>Alternative mass-based WLA option: <u>Begin</u> Monitoring and Implementation Plan</p> <p><u>Alternative</u> Mmass-based WLAs Annual Monitoring Reports</p> <p>Optional Special Studies Final Reports</p>	<p>March 11, 2009</p> <p>March 11, 2014</p> <p>March 11, 2014</p> <p>September 11, 2018</p> <p>March 11, 2010</p> <p><u>Sixty days from date of MRP Plan approval</u></p> <p>March 11, 2010</p> <p>September 11, 2010</p> <p>March 11, 2011</p> <p>Sixty days from of Implementation Plan approval.</p> <p>Annually- - from date of MRP Plan approval</p> <p>September 11, 2011</p> <p>September 11, 2011</p> <p><u>Sixty days from MRP/ Implementation Plan approval</u> November 11, 2011</p> <p><u>Annually - from date of MRP/Implementation Plan approval</u> September 11, 2012 and annually thereafter</p> <p>March 11, 2015</p>
<p>Upper Santa Clara River <i>Chloride</i></p>	<p>WLA Chloride = 100 mg/L Concentration-based WLAs</p>	<p>April 6, 2005May 5, 2015April 6, 2010</p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date															
<p>Effective Date: April 6, 2010</p> <p>BPA: Attachment B, Chapter 7-6</p> <p>Resolution No. R4-2008-012</p>	<p><i>Other</i> None Specified</p>																
<p>Santa Clara River Nitrogen Compounds</p> <p>Effective Date: March 1823, 2004</p> <p>BPA: Attachment B, Chapter 7-9</p> <p>Resolution No. R03-011</p>	<p>WLA Concentration-based WLAs</p> <table><thead><tr><th rowspan="2">Watershed Stream Reach</th><th>1-Hour (mg/L)</th><th>30-day (mg/L)</th><th>30-day Average (mg/L)</th></tr><tr><th>NH₃ - N</th><th>NH₃ - N</th><th>NO₃ - N + NO₂ - N</th></tr></thead><tbody><tr><td>3</td><td>4.2</td><td>2.0</td><td>8.1</td></tr><tr><td>7</td><td>5.2</td><td>1.75</td><td>6.8</td></tr></tbody></table> <p><i>Other</i> Workplan to estimate ammonia and nitrogen loadings associated with runoff loads from the storm drain system.</p> <p>Annual Progress Reports on the Implementation Plan</p>	Watershed Stream Reach	1-Hour (mg/L)	30-day (mg/L)	30-day Average (mg/L)	NH ₃ - N	NH ₃ - N	NO ₃ - N + NO ₂ - N	3	4.2	2.0	8.1	7	5.2	1.75	6.8	<p>March 1823, 2004</p> <p>March 1823, 2005</p> <p>March 1823, 2005 and annually thereafter</p>
Watershed Stream Reach	1-Hour (mg/L)		30-day (mg/L)	30-day Average (mg/L)													
	NH ₃ - N	NH ₃ - N	NO ₃ - N + NO ₂ - N														
3	4.2	2.0	8.1														
7	5.2	1.75	6.8														
<p>Calleguas Creek, Its Tributaries and Mugu Lagoon <i>Toxicity, Chlorpyrifos, and Diazinon</i></p> <p>Effective Date: March 24, 2006</p> <p>BPA: Attachment A, Chapter 7-16</p> <p>Resolution No. R05-009</p>	<p>WLA Toxicity 1.0 TUc</p> <p>Chlorpyrifos WLAs, ug/L Interim WLA (4 day) – 0.45 Final WLA (4 day) – 0.014</p> <p>Diazinon WLAs, ug/L Interim WLA (Acute, 1-hour) – 1.73 Interim WLA (Chronic, 4-day) – 0.556 Final WLA (Acute and Chronic) – 0.10</p> <p>Submit workplan for integrated Calleguas Creek Monitoring Program for approval by EO</p> <p>Initiate monitoring program</p> <p>Investigate the pesticides that will replace Diazinon and Chlorpyrifos in the urban environment, their potential impact on receiving waters, and potential control measures</p> <p>Consider results of monitoring of sediment concentrations by source/land use type through special study required in the OC Pesticide, PCB and siltation TMDL Implementation Plan. If the special study is not completed through the OC Pesticides, PCBs and Siltation TMDL no consideration is necessary</p> <p>Develop and implement collection program for Diazinon and Chlorpyrifos and an educational program.</p> <p>Calculation of sediment transport rates in CCW. Consider findings of transport rates developed through the OC Pesticide, PCB and siltation TMDL</p>	<p>March 24, 2006 – Interim WLAs</p> <p>March 24, 2008 – Final WLAs</p> <p>September 24, 2006</p> <p>March 24, 2008</p> <p>March 24, 2008</p> <p>6 months after completion of CCW OC pesticides, PCBs and Siltation TMDL sediment concentrations special study</p> <p>March 24, 2009</p> <p>6 months after completion of CCW</p>															

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
		<u>OC Pesticides, PCBs and Siltation TMDL</u>

Attachment IV TMDL Requirements

Attachment IVa identifies TMDLs adopted by the Regional Water Boards and approved by USEPA for which the Department has been assigned a Waste Load Allocation (WLA), where roads have been assigned a WLA or Load Allocation (LA), or which identifies the Department as a responsible party in the implementation plan. Attachment IVb identifies the TMDLs established by USEPA. These TMDLs are established without implementation plans or compliance schedules. This summary is compiled for the convenience of the Department only¹. The Department is obligated to consult each TMDL to comply with all applicable allocations and other provisions, whether included in the table or not. Compliance with all TMDLs must be demonstrated to the satisfaction of the applicable Regional Water Board.

Column 1 identifies applicable Regional Water Board Basin Plan Amendments, orders and resolutions which contain the implementation requirements.

Column 2 contains a partial list of WLAs, LAs, deliverables and action items contained in the Basin Plan Amendments, orders and resolutions, and from required submittals by the Department to the Regional Water Boards that have previously been approved by the Executive Officers. WLAs are listed in Attachment 4 where the relevant TMDL assigns a specific numeric load to the Department.

Column 3 contains the associated due dates, compliance dates, and deadlines. All TMDL-related requirements with due dates, compliance dates, and deadlines prior to the effective date of this Order are enforceable through this Order as though the date or deadline is the same as the effective date of this Order. Dates beyond the term of this Order are included for reference, but will become enforceable through this Order in the event that this Order is administratively extended.

¹ This Attachment IV contains new specific permit requirements derived from San Francisco Bay Regional Water Board TMDLs for San Francisco Bay PCBs, San Francisco Bay Mercury, Sonoma Creek Sediment, and Napa River Sediment. Unlike the remainder of Attachment IV, these requirements are directly enforceable through this Order.

Attachment IVa – Regional Water Board Approved TMDLs

R4 – Los Angeles Regional Water Board

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																																																																																		
Ballona Creek Trash Effective Date: August 11, 2005 BPA: Attachment A, Chapter 7-3 Resolution No. R04-023	<table><tr><th rowspan="2">Deadline</th><th colspan="4">WLAs</th><th colspan="4">Compliance Points</th></tr><tr><th>%Baseline</th><th>(cubic ft)</th><th>(gals)</th><th>(lbs)</th><th>% Baseline</th><th>(cubic ft)</th><th>(gals)</th><th>(lbs)</th></tr><tr><td>Initial WLA</td><td>100%</td><td>1634</td><td>12222</td><td>13688</td><td>100%</td><td>1634</td><td>12222</td><td>13688</td></tr><tr><td>2008</td><td>50%</td><td>818</td><td>6119</td><td>6844.0</td><td>60%</td><td>981</td><td>7338</td><td>8218</td></tr><tr><td>2009</td><td>40%</td><td>654</td><td>4892</td><td>5475.2</td><td>50%</td><td>818</td><td>6119</td><td>6844</td></tr><tr><td>2010</td><td>30%</td><td>491</td><td>3673</td><td>4106.4</td><td>40%</td><td>654</td><td>4892</td><td>5475</td></tr><tr><td>2011</td><td>20%</td><td>327</td><td>2446</td><td>2737.6</td><td>30%</td><td>491</td><td>3673</td><td>4106</td></tr><tr><td>2012</td><td>10%</td><td>164</td><td>1227</td><td>1368.8</td><td>20%</td><td>327</td><td>2446</td><td>2738</td></tr><tr><td>2013</td><td>0%</td><td>0</td><td>0</td><td>0.0</td><td>10%</td><td>164</td><td>1227</td><td>1369</td></tr><tr><td>2014</td><td>0%</td><td>0</td><td>0</td><td>0.0</td><td>3.3%</td><td>54</td><td>404</td><td>450</td></tr><tr><td>2015</td><td>0%</td><td>0</td><td>0</td><td>0.0</td><td>0%</td><td>0</td><td>0</td><td>0</td></tr></table> Other Clean out and measurement of trash retained after rain event. Clean out and measurement of trash retained during dry weather	Deadline	WLAs				Compliance Points				%Baseline	(cubic ft)	(gals)	(lbs)	% Baseline	(cubic ft)	(gals)	(lbs)	Initial WLA	100%	1634	12222	13688	100%	1634	12222	13688	2008	50%	818	6119	6844.0	60%	981	7338	8218	2009	40%	654	4892	5475.2	50%	818	6119	6844	2010	30%	491	3673	4106.4	40%	654	4892	5475	2011	20%	327	2446	2737.6	30%	491	3673	4106	2012	10%	164	1227	1368.8	20%	327	2446	2738	2013	0%	0	0	0.0	10%	164	1227	1369	2014	0%	0	0	0.0	3.3%	54	404	450	2015	0%	0	0	0.0	0%	0	0	0	
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<p>Machado Lake Trash</p> <p>Effective Date: March 6, 2008</p> <p>BPA: Attachment A, Chapter 7-26</p> <p>Resolution No. R07-006</p>	<p>WLA</p> <table border="1" data-bbox="574 541 1084 798"> <thead> <tr> <th>Deadline</th><th>% WLA</th><th>gal/mi2/yr</th></tr> </thead> <tbody> <tr> <td>3/6/2008</td><td>Initial WLA</td><td>6674</td></tr> <tr> <td>3/6/2012</td><td>80%</td><td>5340</td></tr> <tr> <td>3/6/2013</td><td>60%</td><td>4005</td></tr> <tr> <td>3/6/2014</td><td>40%</td><td>2670</td></tr> <tr> <td>3/6/2015</td><td>20%</td><td>1335</td></tr> <tr> <td>3/6/2016</td><td>0%</td><td>0</td></tr> </tbody> </table> <p>Other Trash Monitoring and Reporting Plan (TMRP)</p> <p>Implement Trash Monitoring Reporting Plan</p> <p>Submit results of TMRP, recommend trash baseline WLA, and propose prioritization of Full Capture System installation or implementation of other trash reduction measures.</p>	Deadline	% WLA	gal/mi2/yr	3/6/2008	Initial WLA	6674	3/6/2012	80%	5340	3/6/2013	60%	4005	3/6/2014	40%	2670	3/6/2015	20%	1335	3/6/2016	0%	0	<p>August 27, 2008</p> <p>July 28, 2009</p> <p>January 28, 2011 and annually thereafter</p>
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Los Angeles River Trash Effective Date: September 23, 2008 BPA: Attachment A, Chapter 7-2 Resolution No. R07-012	<table><tr><th rowspan="2">Deadline</th><th colspan="3">WLAs</th><th colspan="3">Effluent Limitations</th></tr><tr><th>%Baseline</th><th>(gals)</th><th>(lbs)</th><th>%Baseline</th><th>(gals)</th><th>(lbs)</th></tr><tr><td>Initial WLA</td><td>100%</td><td>59421</td><td>66566</td><td>100%</td><td>59421</td><td>66566</td></tr><tr><td>2008</td><td>60%</td><td>35653</td><td>39940</td><td>60%</td><td>35653</td><td>39940</td></tr><tr><td>2009</td><td>50%</td><td>29711</td><td>33283</td><td>55%</td><td>32682</td><td>36611</td></tr><tr><td>2010</td><td>40%</td><td>23768</td><td>26626</td><td>50%</td><td>29711</td><td>33283</td></tr><tr><td>2011</td><td>30%</td><td>17826</td><td>19970</td><td>40%</td><td>23768</td><td>26626</td></tr><tr><td>2012</td><td>20%</td><td>11884</td><td>13313</td><td>30%</td><td>17826</td><td>19970</td></tr><tr><td>2013</td><td>10%</td><td>5942</td><td>6657</td><td>20%</td><td>11884</td><td>13313</td></tr><tr><td>2014</td><td>0%</td><td>0</td><td>0</td><td>10%</td><td>5942</td><td>6657</td></tr><tr><td>2015</td><td>0%</td><td>0</td><td>0</td><td>3.3%</td><td>1961</td><td>2197</td></tr><tr><td>2016</td><td>0%</td><td>0</td><td>0</td><td>0%</td><td>0</td><td>0</td></tr></table> <p>A. <u>Waste Load Allocations</u>: Caltrans shall comply with the interim and final effluent limitations set forth above.²</p> <p>B. <u>Compliance</u>:</p> <p>(1) Caltrans may comply with the effluent limitations using any lawful means. Such compliance options are broadly classified as <i>full capture</i>, <i>partial capture</i>, or <i>institutional controls</i>, as described below, and any combination of these may be employed to achieve compliance:</p> <p>(a) <u>Full Capture Systems</u>:</p> <p>1) The Los Angeles Region's Basin Plan authorizes the Executive Officer to certify <i>full capture systems</i>, which are systems that meet the operating and performance requirements as described in this Order, and the procedures identified in "Procedures and Requirements for Certification of a Best Management Practice for Trash Control as a Full Capture System." (See attached.)³</p> <p>2) Caltrans is authorized to comply with its effluent limitations through certified <i>full capture systems</i> provided the requirements of paragraph 3), immediately below, and any conditions in the</p>	Deadline	WLAs			Effluent Limitations			%Baseline	(gals)	(lbs)	%Baseline	(gals)	(lbs)	Initial WLA	100%	59421	66566	100%	59421	66566	2008	60%	35653	39940	60%	35653	39940	2009	50%	29711	33283	55%	32682	36611	2010	40%	23768	26626	50%	29711	33283	2011	30%	17826	19970	40%	23768	26626	2012	20%	11884	13313	30%	17826	19970	2013	10%	5942	6657	20%	11884	13313	2014	0%	0	0	10%	5942	6657	2015	0%	0	0	3.3%	1961	2197	2016	0%	0	0	0%	0	0	September 30, 2008 September 30, 2009 September 30, 2010 September 30, 2011 September 30, 2012 September 30, 2013 September 30, 2014 September 30, 2015 September 30, 2016
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	<p>certification, continue to be met.</p> <p>3) Caltrans may comply with its effluent limitations through progressive installation of <i>full capture systems</i> throughout its areas until all areas draining to the Los Angeles River system are addressed. For purposes of this Permit, attainment of the effluent limitations shall be conclusively presumed for any drainage area to the Los Angeles River (or its tributaries)⁴ where certified <i>full capture systems</i> treat all drainage from the area, provided that the <i>full capture systems</i> are adequately sized and maintained, and that maintenance records are up-to-date and available for inspection by the Regional Board.</p> <ul style="list-style-type: none"> i. A Permittee relying entirely on <i>full capture systems</i> shall be deemed in compliance with its final effluent limitation if it demonstrates that all drainage areas under its jurisdiction are serviced by appropriate certified <i>full capture systems</i> as described in paragraph (a)(3). ii. A Permittee relying entirely on <i>full capture systems</i> shall be deemed in compliance with its interim effluent limitations: <ul style="list-style-type: none"> 1. By demonstrating that <i>full capture systems</i> treat the percentage of drainage areas in the watershed that corresponds to the required trash abatement. 2. Alternatively, a Permittee may propose a schedule for jurisdiction-wide installation of <i>full capture systems</i>, targeting first the areas of greatest trash generation (based upon the information on drainage area and litter generation rates by land use provided in Appendices I and III of the Los Angeles River 	

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	<p>Trash TMDL Staff Report) for the Executive Officer's approval. The Executive Officer shall not approve any such schedule that does not result in timely compliance with the final effluent limitations. A Permittee shall be deemed in compliance with its interim effluent limitations provided it is fully in compliance with any such approved schedule.</p> <p>(b) <u>Partial Capture Devices and Institutional Controls</u>: Caltrans may comply with its interim and final effluent limitations through the installation of <i>partial capture devices</i> and the application of <i>institutional controls</i>.⁵</p> <ol style="list-style-type: none"> 1) Trash discharges from areas serviced solely by <i>partial capture devices</i> may be estimated based on demonstrated performance of the device(s) in the implementing area.⁶ That is, trash reduction is equivalent to the <i>partial capture devices</i>' trash removal efficiency multiplied by the percentage of drainage area serviced by the devices. 2) Except as provided in subdivision 3), below, trash discharges from areas addressed by <i>institutional controls</i> and/or <i>partial capture devices</i> (where site-specific performance data is not available) shall be calculated using a mass balance approach, based on the daily generation rate (DGR) for a representative area.⁷ The DGR shall be determined from direct measurement of trash deposited in the drainage area during any thirty-day period between June 22nd and September 22nd exclusive of rain events⁸, and shall be re-calculated every year thereafter. The DGR shall be calculated as the total amount of trash collected during this period divided by 30 (the length of the collection period). <p>DGR = (Amount of trash collected during a 30-day collection period⁹) / (30 days)</p>	

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	<p>The DGR for the applicable area of the jurisdiction shall be extrapolated from that of the representative drainage area. A mass balance equation shall be used to estimate the amount of trash discharged during a storm event.¹⁰ The <i>Storm Event Trash Discharge</i> for a given rain event in a Permittee's drainage area shall be calculated by multiplying the number of days since the last street sweeping by the DGR and subtracting the amount of any trash recovered in the catch basins.¹¹ For each day of a storm event that generates precipitation greater than 0.25 inches, Caltrans shall calculate a <i>Storm Event Trash Discharge</i>.</p> <p><i>Storm Event Trash Discharge</i> = [(Days since last street sweeping * DGR)] - [Amount of trash recovered from catch basins]¹²</p> <p>The sum of the <i>Storm Event Trash Discharges</i> for the storm year shall be Caltrans' calculated annual trash discharge.</p> <p><i>Total Storm Year Trash Discharge</i> = \sum Storm Event Trash Discharges from Drainage Area</p> <p>3) The Executive Officer may approve alternative compliance monitoring approaches for calculating total storm year trash discharge, upon finding that the program will provide a scientifically-based estimate of the amount of trash discharged from the MS4.</p> <p>(c) <u>Combined Compliance Approaches:</u> Caltrans may comply with its interim and final effluent limitations through a combination of <i>full capture systems</i>, <i>partial capture devices</i>, and <i>institutional controls</i>. Permittees relying on a combination of approaches shall demonstrate compliance with the interim and final effluent limitations as specified in (a)(3) in areas where <i>full capture systems</i> are installed and as specified in (b)(2) in areas where <i>partial capture devices</i> and <i>institutional controls</i> are applied.</p> <p>(2) A Permittee that is not in compliance with the applicable interim and/or final effluent limitation shall be in violation of this permit.</p> <p>(a) A Permittee relying on <i>partial capture devices</i> and/or <i>institutional controls</i> that has violated its interim or final effluent limitation shall be presumed to have violated the applicable</p>	

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	<p>limitation for each day of each storm event that generated precipitation greater than 0.25 inches during the applicable storm year, except those storm days on which it establishes that its cumulative Storm Event Trash Discharges has not exceeded the applicable effluent limitation.</p> <p>(b) For a Permittee relying on full capture systems who has failed to demonstrate that the <i>full capture systems</i> for any drainage area are adequately sized and maintained, and that maintenance records are up-to-date and available for inspection by the Regional Board, and that it is in compliance with any conditions of its certification, shall be presumed to have discharged trash in an amount that corresponds to the percentage of the baseline waste load allocation represented by the drainage area in question.</p> <p>1) A Permittee may overcome this presumption by demonstrating (using any of the methods authorized in this Part B(1)(b)) that the actual or calculated discharge for that drainage area is in compliance with the applicable interim or final effluent limitation.</p> <p>(3) Caltrans shall be held liable for violations of the Effluent Limitations assigned to its area. Any Permittee whose compliance strategy includes full or partial capture devices and who chooses to install a full or partial capture device in the MS4 physical infrastructure of another public entity is responsible for obtaining all necessary permits to do so. If a Permittee believes it is unable to obtain the permits needed to install a full capture or partial capture device within another Permittee's MS4 physical infrastructure, either Permittee may request the Executive Officer to hold a conference with the Permittees. Nothing in this Order shall affect the right of that public entity or a Permittee to seek indemnity or other recourse from the other as they deem appropriate. Nothing in this subsection shall be construed as relieving a Permittee of any liability that the Permittee would otherwise have under this Order.</p> <p>C. <u>Monitoring and Reporting Requirements (pursuant to Water Code section 13383)</u></p> <p>(1) On October 31, 2011 and every year thereafter, Caltrans shall submit a TMDL Compliance Report detailing compliance with the interim and final effluent limitations. Reporting shall include the information specified below. The report shall be submitted on a reporting form to be specified by the Executive Officer. The report shall be signed under penalty of perjury by the Director of Public Works or other agency head (or their delegee) that is responsible for ensuring compliance with this permit. Permittees shall be charged with and shall demonstrate compliance with the relevant effluent limitations beginning with their October 31, 2011 TMDL Compliance Report.</p> <p>(a) <u>Reporting Compliance based on Full Capture Systems:</u> Caltrans shall provide information</p>	

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	<p>on the number and location of full capture installations, the sizing of each full capture installation, the drainage areas addressed by these installations, and compliance with the applicable interim or final effluent limitation, in its TMDL Compliance Report. The Regional Board will periodically audit sizing, performance, and other data to validate that a system satisfies the criteria established for a <i>full capture system</i> and any conditions established by the Executive Officer in the certification.</p> <p>(b) <u>Reporting Compliance based on Partial Capture Systems and/or Institutional Controls:</u></p> <p>(1) Using Performance Data Specific to the Jurisdictional Area: Caltrans shall provide (i) site-specific performance data for the applicable device(s), (ii) information on the number and location of such installations, and the drainage areas addressed by these installations, and (iii) calculated compliance with the applicable effluent limitations, in their TMDL Compliance Report.</p> <p>(2) Using Direct Measurement of Trash Discharge: Caltrans shall provide an accounting of DGR and trash removal via street sweeping, catch basin clean outs, etc., in a database to facilitate the calculation of discharge for each rain event. The database shall be maintained and provided to the Regional Board for inspection upon request. Caltrans shall provide the annual DGR, calculated storm year discharge, and compliance with the applicable effluent limitation, in its TMDL Compliance Report.</p> <p>(c) <u>Reporting Compliance based on Combined Compliance Approaches:</u> Caltrans shall provide the information specified in subsection (a) for areas where full capture systems are installed and that specified in subsection (b)(1) or (b)(2), as appropriate, for areas where partial capture devices and institutional controls are applied. Caltrans shall also provide information on compliance with the applicable effluent limitation based on the combined compliance approaches, in its TMDL Compliance Report</p> <p>(2) Violation of the reporting requirements of this Part shall be punishable pursuant to inter alia Water Code subdivision (a)(1) of section 13385.1 and/or subdivision (a)(3) of section 13385.</p>							
<p>Ballona Creek, Ballona Estuary, and Sepulveda Channel Bacteria</p> <p>Effective Date: April 27, 2007</p> <p>BPA: Attachment A, Chapter 7-21</p>	<p>Dry Weather WLAs for Ballona Creek, Ballona Estuary and Sepulveda Channel</p> <table border="1"> <thead> <tr> <th>Time Period</th><th>Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *</th><th>Ballona Creek Reach 1**</th></tr> </thead> <tbody> <tr> <td>Summer Dry Weather (April 1 to October 31)</td><td>Zero (0) exceedance days based on the applicable Single Sample Bacteria Water Quality</td><td>No more than 10% of the Single Sample Bacteria Water Quality Objectives</td></tr> </tbody> </table>	Time Period	Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *	Ballona Creek Reach 1**	Summer Dry Weather (April 1 to October 31)	Zero (0) exceedance days based on the applicable Single Sample Bacteria Water Quality	No more than 10% of the Single Sample Bacteria Water Quality Objectives	<p>April 27, 2017</p>
Time Period	Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *	Ballona Creek Reach 1**						
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TMDL
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Due Date**

Resolution No. R06-011

	Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives
Winter Dry Weather (November 1- March 31)	Three (3) exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	No more than 10% of the Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives

* Exceedance days for Ballona Estuary based on REC-1 marine water numeric targets; for Ballona Creek Reach 2 based on LREC-1 freshwater numeric targets; and for Sepulveda Channel, based on fresh water REC-1 numeric targets

**Exceedance frequency for Ballona Creek Reach 1 based on freshwater REC-2 numeric targets

Dry-weather WLAs for Tributaries to the Impaired Reaches of Ballona Creek Watershed

Tributary	Point of Application	Water Quality Objectives	Waste Load Allocation (No. exceedance days)
Ballona Creek Reach 1	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (0) summer dry weather, (3) winter dry weather For geometric mean objectives: (0) for both periods
Benedict Canyon Channel	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (0) summer dry weather, (3) winter dry weather For geometric mean objectives: (0) for both periods
Ballona Creek Reach 2	At confluence with Ballona Estuary	REC-1 Marine water	For single sample objectives: (0) summer dry weather, (3) winter dry weather For geometric mean objectives: (0) for both periods
Centinela Creek	At confluence with Ballona Estuary	REC-1 Marine water	For single sample objectives: (0) summer dry weather, (3) winter dry weather For geometric mean objectives: (0) for both periods

April 27, 2017

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																										
	<p>Wet Weather Weather WLAs for Ballona Creek, Ballona Estuary and Sepulveda Channel</p> <table><tr><th>Time Period</th><th>Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *</th><th>Ballona Creek Reach 1**</th></tr><tr><td>Wet-Weather (days with ≥0.1 inch of rain + 3 days following the rain event)</td><td>17*** exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives</td><td>No more than 10% of the Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives</td></tr></table> <p>* Exceedance days for Ballona Estuary based on REC-1 marine water numeric targets; for Ballona Creek Reach 2 based on LREC-1 freshwater numeric targets; and for Sepulveda Channel, based on fresh water REC-1 numeric targets **Exceedance frequency for Ballona Creek Reach 1 based on freshwater REC-2 numeric targets *** In Reach 2, the greater of the allowable exceedance days under the reference system approach or high flow suspension shall apply.</p> <p>Wet-weather WLAs for tributaries to the Impaired Reaches of Ballona Creek Watershed</p> <table><tr><th>Tributary</th><th>Point of Application</th><th>Water Quality Objectives</th><th>Wet-weather Waste Load Allocation (No. exceedance days)</th></tr><tr><td>Ballona Creek Reach 1</td><td>At confluence with Reach 2</td><td>LREC-1 Freshwater</td><td>For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather</td></tr><tr><td>Benedict Canyon Channel</td><td>At confluence with Reach 2</td><td>LREC-1 Freshwater</td><td>For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather</td></tr><tr><td>Ballona Creek Reach 2</td><td>At confluence with Ballona Estuary</td><td>REC-1 Marine water</td><td>For single sample objectives: (17) winter wet weather For geometric mean objectives: (0) for wet weather</td></tr><tr><td>Centinela Creek</td><td>At confluence with Ballona Estuary</td><td>REC-1 Marine water</td><td>For single sample objectives: (17) winter wet weather For geometric mean objectives: (0) for wet weather</td></tr></table> <p>* At the confluence with Reach 2, the greater of the allowable exceedance days under the reference system approach or high flow suspension shall apply.</p> <p>Other</p> <p>Submit Final Implementation Plan outlining approach for compliance with WLAs.</p>	Time Period	Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *	Ballona Creek Reach 1**	Wet-Weather (days with ≥0.1 inch of rain + 3 days following the rain event)	17*** exceedance days based on the applicable Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	No more than 10% of the Single Sample Bacteria Water Quality Objectives Zero (0) exceedance days based on the Rolling 30-Day Geometric Mean Bacteria Water Quality Objectives	Tributary	Point of Application	Water Quality Objectives	Wet-weather Waste Load Allocation (No. exceedance days)	Ballona Creek Reach 1	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather	Benedict Canyon Channel	At confluence with Reach 2	LREC-1 Freshwater	For single sample objectives: (17*) winter wet weather For geometric mean objectives: (0) for wet weather	Ballona Creek Reach 2	At confluence with Ballona Estuary	REC-1 Marine water	For single sample objectives: (17) winter wet weather For geometric mean objectives: (0) for wet weather	Centinela Creek	At confluence with Ballona Estuary	REC-1 Marine water	For single sample objectives: (17) winter wet weather For geometric mean objectives: (0) for wet weather	<p>April 27, 2017 or, if an integrated water resources approach is used, July 15, 2021</p> <p>April 27, 2017 or, if an integrated water resources approach is used, July 15, 2021</p> <p>Three months after receipt of Regional</p>
Time Period	Ballona Estuary, Ballona Creek Reach 2, and Sepulveda Channel *	Ballona Creek Reach 1**																										
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TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																																																																																																				
Marina del Rey Harbor Back Basins, Mothers' Beach Bacteria Effective Date: March 18, 2004 BPA: Attachment A, Chapter 7-5 Resolution No. R03-012	WLA Final Allowable Exceedance Days by Sampling Location <table><tr><th colspan="2">Compliance Deadline</th><th colspan="2">3 years after effective date</th><th colspan="2">6 years after effective date</th><th colspan="2">10 years after effective date</th></tr><tr><th rowspan="3">Station ID</th><th rowspan="3">Location Name</th><th colspan="2">Summer Dry Weather ^</th><th colspan="2">Winter Dry Weather ^^</th><th colspan="2">Wet Weather ^^</th></tr><tr><th colspan="2">April 1 - October 31</th><th colspan="2">November 1 - March 31</th><th colspan="2">November 1 - October 31</th></tr><tr><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th><th>Daily sampling (No. days)</th><th>Weekly sampling (No. days)</th></tr><tr><td>HYP (S9)</td><td>Mothers' Beach, at Lifeguard Tower</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHS (109a)</td><td>Mothers' Beach, at Playground Area</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHS (109b)</td><td>Mothers' Beach, between Lifeguard Tower and Boat Dock</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHS (109c)</td><td>Los Angeles County Fire Dock - end of main channel</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHB (MDR-8)</td><td>Mothers' Beach, near first slips outside swim area</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHB (MDR-18)</td><td>Mothers' Beach, 20 meters off of the wheel chair ramp</td><td>0</td><td>0</td><td>0</td><td>0</td><td>15</td><td>3</td></tr><tr><td>DHB (MDR-19)</td><td>Mothers' Beach, end of wheel chair ramp</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHB (MDR-9)</td><td>Basin F, innermost end</td><td>0</td><td>0</td><td>3</td><td>1</td><td>8</td><td>1</td></tr><tr><td>DHB (MDR-11)</td><td>End of Main Channel</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHB (MDR-10)</td><td>Basin E, near center of basin</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr><tr><td>DHB (MDR-20)</td><td>Basin E, in front of Tidegate from Oxford Basin</td><td>0</td><td>0</td><td>3</td><td>1</td><td>17</td><td>3</td></tr></table>	Compliance Deadline		3 years after effective date		6 years after effective date		10 years after effective date		Station ID	Location Name	Summer Dry Weather ^		Winter Dry Weather ^^		Wet Weather ^^		April 1 - October 31		November 1 - March 31		November 1 - October 31		Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	HYP (S9)	Mothers' Beach, at Lifeguard Tower	0	0	3	1	17	3	DHS (109a)	Mothers' Beach, at Playground Area	0	0	3	1	17	3	DHS (109b)	Mothers' Beach, between Lifeguard Tower and Boat Dock	0	0	3	1	17	3	DHS (109c)	Los Angeles County Fire Dock - end of main channel	0	0	3	1	17	3	DHB (MDR-8)	Mothers' Beach, near first slips outside swim area	0	0	3	1	17	3	DHB (MDR-18)	Mothers' Beach, 20 meters off of the wheel chair ramp	0	0	0	0	15	3	DHB (MDR-19)	Mothers' Beach, end of wheel chair ramp	0	0	3	1	17	3	DHB (MDR-9)	Basin F, innermost end	0	0	3	1	8	1	DHB (MDR-11)	End of Main Channel	0	0	3	1	17	3	DHB (MDR-10)	Basin E, near center of basin	0	0	3	1	17	3	DHB (MDR-20)	Basin E, in front of Tidegate from Oxford Basin	0	0	3	1	17	3	Board comments on Draft Implementation Plan. March 18, 2007 – Summer Dry Weather March 18, 2010 – Winter Dry Weather March 18, 2014 – Wet Weather
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Santa Monica Bay Beaches Bacteria	WLA WLA is held jointly with multiple dischargers. Caltrans is responsible for achieving the WLAs identified below for all shoreline monitoring sites with the exception of those subject to Antidegradation Provisions.																																																																																																																					

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BPA: Attachment A, Chapter 7-4	<table><tr><th colspan="2">Summer Dry Weather April 1 - October 31</th><th colspan="2">Winter Dry Weather November 1 - March 31</th></tr><tr><td>Daily sampling (No. days)</td><td>Weekly sampling (No. days)</td><td>Daily sampling (No. days)</td><td>Weekly sampling (No. days)</td></tr><tr><td>0</td><td>0</td><td>3</td><td>1</td></tr></table>	Summer Dry Weather April 1 - October 31		Winter Dry Weather November 1 - March 31		Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	0	0	3	1	November 1, 2009 – Winter Dry Weather																																		
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Malibu Creek and Lagoon Bacteria Effective Date: January 24, 2006 BPA: Attachment A, Chapter 7-10 Resolution No. R04-019R	<p>WLA WLA is held jointly with multiple dischargers.</p> <p>Dry Weather WLAs expressed as the Allowable Number of Exceedance Days</p> <table><tr><th colspan="2">Summer Dry Weather April 1 - October 31</th><th colspan="2">Winter Dry Weather November 1 - March 31</th></tr><tr><td>Daily sampling (No. days)</td><td>Weekly sampling (No. days)</td><td>Daily sampling (No. days)</td><td>Weekly sampling (No. days)</td></tr><tr><td>0</td><td>0</td><td>3</td><td>1</td></tr></table> <p>Wet Weather WLAs expressed as the Allowable Number of Exceedance Days</p> <table><tr><th colspan="2">Wet Weather</th></tr><tr><td>Daily sampling (No. days)</td><td>Weekly sampling (No. days)</td></tr><tr><td>17</td><td>3</td></tr></table> <p>Caltrans is responsible for achieving the rolling 30-day geometric mean targets, which shall not be exceeded at any time.</p>	Summer Dry Weather April 1 - October 31		Winter Dry Weather November 1 - March 31		Daily sampling (No. days)	Weekly sampling (No. days)	Daily sampling (No. days)	Weekly sampling (No. days)	0	0	3	1	Wet Weather		Daily sampling (No. days)	Weekly sampling (No. days)	17	3	<p>April 1, 2009 – Summer Dry Weather</p> <p>January 24, 2012 – Winter Dry Weather</p> <p>January 24, 2016 – Wet Weather</p>																		
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Harbor Beaches of Ventura County (Kiddie Beach and Hobie Beach) Bacteria Effective Date: December 18, 2008 BPA: Attachment A Chapter 7-28 Resolution No. R07-017	<p>WLA Interim WLAs for Single Sample and 30-day rolling geometric mean Exceedances:</p> <p>Summer Dry-Weather</p> <table><tr><td>Location</td><td>Daily Sampling</td><td>Weekly Sampling</td></tr><tr><td>Kiddie Beach</td><td>54</td><td>8</td></tr><tr><td>Hobie Beach</td><td>40</td><td>6</td></tr></table> <p>Winter Dry Weather</p> <table><tr><td>Location</td><td>Daily Sampling</td><td>Weekly Sampling</td></tr><tr><td>Kiddie Beach</td><td>23</td><td>4</td></tr><tr><td>Hobie Beach</td><td>25</td><td>4</td></tr></table> <p>Wet Weather</p> <table><tr><td>Location</td><td>Daily Sampling</td><td>Weekly Sampling</td></tr><tr><td>Kiddie Beach</td><td>32</td><td>5</td></tr><tr><td>Hobie Beach</td><td>38</td><td>6</td></tr></table> <p>30-day Rolling Geometric Mean Exceedances (Summer):</p> <table><tr><td>Location</td><td>Daily Sampling</td><td>Weekly Sampling</td></tr></table>	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	54	8	Hobie Beach	40	6	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	23	4	Hobie Beach	25	4	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	32	5	Hobie Beach	38	6	Location	Daily Sampling	Weekly Sampling	<p>December 18, 2008</p> <p>December 18, 2008</p> <p>December 18, 2008</p> <p>December 18, 2008</p>						
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	<div>Kiddie Beach558</div> <div>Hobie Beach8012</div> <div>30-day Rolling Geometric Mean Exceedances (Winter):</div> <table><tr><th>Location</th><th>Daily Sampling</th><th>Weekly Sampling</th></tr><tr><td>Kiddie Beach</td><td>92</td><td>14</td></tr><tr><td>Hobie Beach</td><td>91</td><td>13</td></tr></table> <div>Final Allowable Exceedance Days:</div> <table><tr><th rowspan="2">Location</th><th colspan="2">Summer-dry Weather</th><th colspan="2">Winter-dry Weather</th></tr><tr><th>Daily Sampling (No. days)</th><th>Weekly Sampling (No. days)</th><th>Daily Sampling (No. days)</th><th>Weekly Sampling (No. days)</th></tr><tr><td>Kiddie Beach</td><td>0</td><td>0</td><td>3</td><td>1</td></tr><tr><td>Hobie Beach</td><td>0</td><td>0</td><td>3</td><td>1</td></tr></table> <table><tr><th rowspan="2">Location</th><th colspan="2">Wet-Weather</th></tr><tr><th>Daily Sampling (No. days)</th><th>Weekly Sampling (No. days)</th></tr><tr><td>Kiddie Beach</td><td>17</td><td>3</td></tr><tr><td>Hobie Beach</td><td>17</td><td>3</td></tr></table> <div>The WLA for the rolling 30-day geometric mean during any time period or monitoring site is zero (0) days of allowable exceedances.</div> <div>Other</div> <div>Submit Monitoring Plan for approval by Executive Officer.</div> <div>Submit Draft Dry-Weather Workplan to implement source control BMPs</div> <div>Submit Final Dry-Weather Workplan to implement source control and BMPs</div> <div>Submit Final Wet-Weather Workplan: to implement source control and BMPs.</div> <div>Submit Compliance Report for dry-weather, interim wet-weather allocations, and rolling 30-day geometric mean targets</div> <div>Submit Final Compliance Report</div>	Location	Daily Sampling	Weekly Sampling	Kiddie Beach	92	14	Hobie Beach	91	13	Location	Summer-dry Weather		Winter-dry Weather		Daily Sampling (No. days)	Weekly Sampling (No. days)	Daily Sampling (No. days)	Weekly Sampling (No. days)	Kiddie Beach	0	0	3	1	Hobie Beach	0	0	3	1	Location	Wet-Weather		Daily Sampling (No. days)	Weekly Sampling (No. days)	Kiddie Beach	17	3	Hobie Beach	17	3	<div>December 18, 2008</div> <div>December 18, 2013</div> <div>December 18, 2018</div> <div>December 18, 2013</div> <div>Prior to the modification of existing monitoring locations or frequencies.</div> <div>June 18, 2010</div> <div>June 18, 2012</div> <div>December 18, 2012</div> <div>December 18, 2014 and December 18, 2016</div> <div>December 18, 2018</div>
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Ballona Creek Metals	<div>WLA</div> <div>Dry-weather WLAs (grams total recoverable metals/day):</div> <table><tr><th></th><th>Ballona Creek</th><th>Sepulveda</th></tr><tr><td>Copper -</td><td>11.2</td><td>5.1</td></tr><tr><td>Lead -</td><td>6.0</td><td>2.7</td></tr><tr><td>Selenium -</td><td>2.0</td><td>1</td></tr><tr><td>Zinc -</td><td>143.1</td><td>64.7</td></tr></table> <div>Wet-weather WLAs (total recoverable metals) for all reaches and tributaries (grams/day):</div>		Ballona Creek	Sepulveda	Copper -	11.2	5.1	Lead -	6.0	2.7	Selenium -	2.0	1	Zinc -	143.1	64.7	<div>01/11/2012 - 50% area meeting dry-weather WLAs</div> <div>01/11/2014 - 75% area meeting dry-weather WLAs</div> <div>01/11/2016 - 100% area meeting dry-weather WLAs</div> <div>01/11/2012 - 25% area meeting wet-weather</div>																								
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TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																																																																
	<p>Copper - 2.37E-07 x Daily storm water volume (L) Lead - 7.78E-07 x Daily storm water volume (L) Selenium - 6.59E-08 x Daily storm water volume (L) Zinc - 1.57E-06 x Daily storm water volume (L)</p>	<p>WLAs 01/11/2016 - 50% area meeting wet-weather WLAs 01/11/2021 - 100% area meeting wet-weather WLAs</p>																																																																																
<p>Calleguas Creek and Its Tributaries and Mugu Lagoon Metals and Selenium</p> <p>Effective Date: March 27, 2007</p> <p>BPA: Attachment A, Chapter 7-19</p> <p>Resolution No. R06-012</p>	<p>WLA The Department and other responsible jurisdictions are jointly assigned WLAs.</p> <p>Interim Limits and Final WLAs for Total Recoverable Copper, Nickel, and Selenium</p> <p>A. Interim Limits</p> <table><tr><th rowspan="2">Constituents</th><th colspan="3">Calleguas and Conejo Creek</th><th colspan="3">Revolon Slough</th></tr><tr><th>Dry CMC (ug/L)</th><th>Dry CCC (ug/L)</th><th>Wet CMC (ug/L)</th><th>Dry CMC (ug/L)</th><th>Dry CCC (ug/L)</th><th>Wet CMC (ug/L)</th></tr><tr><td>Copper*</td><td>23</td><td>19</td><td>204</td><td>23</td><td>19</td><td>204</td></tr><tr><td>Nickel</td><td>15</td><td>13</td><td>(a)</td><td>15</td><td>13</td><td>(a)</td></tr><tr><td>Selenium</td><td>(b)</td><td>(b)</td><td>(b)</td><td>14</td><td>13</td><td>(a)</td></tr></table> <p>(a) The current loads do not exceed the TMDL under wet conditions; interim limits are not required. (b) Selenium allocations have not been developed for this reach as it is not on the 303(d) list. (c) Attainment of interim limits will be evaluated in consideration of background loading data, if available.</p> <p>B. Final WLAs for Total Recoverable Copper, Nickel, and Selenium</p> <p>Dry-Weather WLAs in Water Column</p> <table><tr><th rowspan="2">Flow Range</th><th colspan="3">Calleguas and Conejo Creek</th><th colspan="3">Revolon Slough</th></tr><tr><th>Low Flow</th><th>Average Flow</th><th>Elevated Flow</th><th>Low Flow</th><th>Average Flow</th><th>Elevated Flow</th></tr><tr><td>Copper¹ (lbs/day)</td><td>0.04*WER 0.02</td><td>0.12*WER 0.02</td><td>0.18*WER 0.03</td><td>0.03*WER - 0.01</td><td>0.06*WER - 0.03</td><td>0.13*WER 0.02</td></tr><tr><td>Nickel (lbs/day)</td><td>0.100</td><td>0.120</td><td>0.440</td><td>0.050</td><td>0.069</td><td>0.116</td></tr><tr><td>Selenium (lbs/day)</td><td>(a)</td><td>(a)</td><td>(a)</td><td>0.004</td><td>0.003</td><td>0.004</td></tr></table> <p>If site-specific WERs are approved by the Regional Board, TMDL waste load allocations shall be implemented in accordance with the approved WERs using the equations set forth above. Regardless of the final WERs, total copper loading shall not exceed current loading. (a) Selenium allocations have not been developed for this reach as it is not on the 303(d) list.</p> <p>Wet-Weather WLAs in Water Column</p> <table><tr><th>Constituent</th><th>Calleguas Creek</th><th>Revolon Slough</th></tr><tr><td>Copper¹ (lbs/day)</td><td>(0.00054*Q²+0.032*Q - 0.17)*WER - 0.06</td><td>(0.0002*Q²+0.0005*Q)*WER</td></tr><tr><td>Nickel² (lbs/day)</td><td>0.014*Q²+0.82*Q</td><td>0.027*Q²+0.47*Q</td></tr><tr><td>Selenium² (lbs/day)</td><td>(a)</td><td>0.027*Q²+0.47*Q</td></tr></table> <p>¹ If site-specific WERs are approved by the Regional Board, TMDL waste load allocations shall be implemented in accordance with the approved</p>	Constituents	Calleguas and Conejo Creek			Revolon Slough			Dry CMC (ug/L)	Dry CCC (ug/L)	Wet CMC (ug/L)	Dry CMC (ug/L)	Dry CCC (ug/L)	Wet CMC (ug/L)	Copper*	23	19	204	23	19	204	Nickel	15	13	(a)	15	13	(a)	Selenium	(b)	(b)	(b)	14	13	(a)	Flow Range	Calleguas and Conejo Creek			Revolon Slough			Low Flow	Average Flow	Elevated Flow	Low Flow	Average Flow	Elevated Flow	Copper ¹ (lbs/day)	0.04*WER 0.02	0.12*WER 0.02	0.18*WER 0.03	0.03*WER - 0.01	0.06*WER - 0.03	0.13*WER 0.02	Nickel (lbs/day)	0.100	0.120	0.440	0.050	0.069	0.116	Selenium (lbs/day)	(a)	(a)	(a)	0.004	0.003	0.004	Constituent	Calleguas Creek	Revolon Slough	Copper ¹ (lbs/day)	(0.00054*Q ² +0.032*Q - 0.17)*WER - 0.06	(0.0002*Q ² +0.0005*Q)*WER	Nickel ² (lbs/day)	0.014*Q ² +0.82*Q	0.027*Q ² +0.47*Q	Selenium ² (lbs/day)	(a)	0.027*Q ² +0.47*Q	<p>March 27, 2007</p> <p>March 27, 2012 – 25% reduction in difference between current loads and final WLA</p> <p>March 27, 2017 – 50% reduction in difference between current loads and final WLA</p> <p>March 27, 2022 – Achieve final WLAs</p>
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	<p>WERs using the equations set forth above. Regardless of the final WERs, total copper loading shall not exceed current loading.</p> <p>² Current loads do not exceed loading capacity during wet weather. Sum of all loads cannot exceed loads presented in the table</p> <p>(a) Selenium allocations have not been developed for this reach as it is not on the 303(d) list. Q: Daily storm volume.</p> <p>Interim Limits and Final WLAs for Mercury in Suspended Sediment</p> <p>Final WLAs are set at 80% reduction of HSPF load estimates. Interim limits for mercury in suspended sediment are set equal to the highest annual load within each flow category, based on HSPF output for the years 1993-2003.</p> <table><tr><th rowspan="2">Flow Range</th><th colspan="2">Calleguas Creek</th><th colspan="2">Revolon Slough</th></tr><tr><th>Interim (lbs/yr)</th><th>Final (lbs/yr)</th><th>Interim (lbs/yr)</th><th>Final (lbs/yr)</th></tr><tr><td>0-15,000 MGY</td><td>3.3</td><td>0.4</td><td>1.7</td><td>0.1</td></tr><tr><td>15,000-25,000 MGY</td><td>10.5</td><td>1.6</td><td>4</td><td>0.7</td></tr><tr><td>Above 25,000 MGY</td><td>64.6</td><td>9.3</td><td>10.2</td><td>1.8</td></tr></table> <p>MGY: million gallons per year.</p> <p>Other</p> <p>Implement Calleguas Creek Watershed Metals and Selenium Monitoring Program</p> <p>Conduct a source control study, develop and submit an Urban Water Quality Management Program (UWQMP) for copper, mercury, nickel, and selenium.</p> <p>Implement UWQMP</p> <p>Evaluate results of the OC pesticides TMDL, Special Study – Calculation of sediment transport rates in the Calleguas Creek Watershed for applicability to the metals and selenium TMDL.</p> <p>Include monitoring for copper, mercury, nickel, and selenium in the OC pesticides TMDL, Special Study – Monitoring of sediment by source and land use type</p> <p>Evaluate the results of the OC Pesticides TMDL, Special Study – Effects of BMPs on Sediment and Siltation to determine the impacts on metals and selenium</p> <p>Submit results of Special Study #2: Identification of Selenium Contaminated Groundwater Sources</p> <p>Submit results of Special Study #3: Investigation of Metals' "Hot Spot" and Natural Soil.</p> <p>Evaluate the effectiveness of BMPs implemented under the UWQMP</p> <p>Evaluate the results of implementation actions Special Studies #2 and #3 and</p>	Flow Range	Calleguas Creek		Revolon Slough		Interim (lbs/yr)	Final (lbs/yr)	Interim (lbs/yr)	Final (lbs/yr)	0-15,000 MGY	3.3	0.4	1.7	0.1	15,000-25,000 MGY	10.5	1.6	4	0.7	Above 25,000 MGY	64.6	9.3	10.2	1.8	<p>March 27, 2007 – Interim Limits for Mercury in Suspended Sediment</p> <p>March 27, 2022 – Final WLAs for Mercury in Suspended Sediment</p> <p>April 30, 2009</p> <p>March 27, 2009</p> <p>Within one year of approval of UWQMP by the Executive Officer</p> <p>Within six months of completion of Study</p> <p>March 27, 2009</p> <p>Within six months of completion of study</p> <p>Within one year of approval of Workplan by Executive Officer</p> <p>Within two years of</p>
Flow Range	Calleguas Creek		Revolon Slough																							
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Los Angeles River Metals Effective Date: October 29, 2008 BPA: Attachment A, Chapter 7-13 Resolution No. R07-014	WLA <u>Dry-weather WLAs - total recoverable metals (kg/day):</u> <table><tr><th></th><th>Cu</th><th>Pb</th><th>Zn</th></tr><tr><td>LA River Reach 6</td><td>0.53</td><td>0.33</td><td></td></tr><tr><td>LA River Reach 5</td><td>0.05</td><td>0.03</td><td></td></tr><tr><td>LA River Reach 4</td><td>0.32</td><td>0.12</td><td></td></tr><tr><td>LA River Reach 3</td><td>0.06</td><td>0.03</td><td></td></tr><tr><td>LA River Reach 2</td><td>0.13</td><td>0.07</td><td></td></tr><tr><td>LA River Reach 1</td><td>0.14</td><td>0.07</td><td></td></tr><tr><td>Bell Creek</td><td>0.06</td><td>0.04</td><td></td></tr><tr><td>Tujunga Wash</td><td>0.001</td><td>0.0002</td><td></td></tr><tr><td>Burbank Channel</td><td>0.15</td><td>0.07</td><td></td></tr><tr><td>Verdugo Wash</td><td>0.18</td><td>0.10</td><td></td></tr><tr><td>Arroyo Seco</td><td>0.01</td><td>0.01</td><td></td></tr><tr><td>Rio Hondo Reach 1</td><td>0.01</td><td>0.006</td><td>0.16</td></tr><tr><td>Compton Creek</td><td>0.04</td><td>0.02</td><td></td></tr></table> <u>Wet-weather WLAs - total recoverable metals (kg/day):</u> Cadmium - $WER \times 5.3 \times 10^{-11} \times \text{daily volume (L)} - 0.03$ Copper - $WER \times 2.9 \times 10^{-10} \times \text{daily volume (L)} - 0.2$ Lead - $WER \times 1.06 \times 10^{-9} \times \text{daily volume (L)} - 0.07$ Zinc - $WER \times 1.2 \times 10^{-9} \times \text{daily volume (L)} - 1.6$ Note: Water effects ratio (WER(s)) have a default value of 1.0 unless site-specific WER(s) are approved by the Regional Board.		Cu	Pb	Zn	LA River Reach 6	0.53	0.33		LA River Reach 5	0.05	0.03		LA River Reach 4	0.32	0.12		LA River Reach 3	0.06	0.03		LA River Reach 2	0.13	0.07		LA River Reach 1	0.14	0.07		Bell Creek	0.06	0.04		Tujunga Wash	0.001	0.0002		Burbank Channel	0.15	0.07		Verdugo Wash	0.18	0.10		Arroyo Seco	0.01	0.01		Rio Hondo Reach 1	0.01	0.006	0.16	Compton Creek	0.04	0.02		01/11/2012 - 50% area meeting dry-weather WLAs 01/11/2020 - 75% area meeting dry-weather WLAs 01/11/2024 - 100% area meeting dry-weather WLAs 01/11/2012 - 25% area meeting wet-weather WLAs 01/11/2024 - 50% area meeting wet-weather WLAs 01/11/2028 - 100% area meeting wet-weather WLAs
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Ballona Creek Estuary Toxic Pollutants Effective Date: January 11, 2006 BPA: Attachment A, Chapter 7-14 Resolution No. R05-008	WLA <u>Metals WLAs for sediment in storm water (kg/yr)</u> <table><tr><td>Cadmium -</td><td>0.11</td></tr><tr><td>Copper -</td><td>3.2</td></tr><tr><td>Lead -</td><td>4.4</td></tr><tr><td>Silver -</td><td>0.09</td></tr><tr><td>Zinc -</td><td>14</td></tr></table> <u>Organics WLAs for sediment in storm water (g/yr)</u> <table><tr><td>Chlordane -</td><td>0.05</td></tr><tr><td>DDTs -</td><td>0.15</td></tr><tr><td>Total PCBs -</td><td>2</td></tr><tr><td>Total PAHs -</td><td>400</td></tr></table> Other Submit Coordinated Monitoring Plan Submit draft report outlining approach for WLAs that includes implementation methods, implementation schedules, proposed milestones, and any revisions to TMDL effectiveness monitoring plan. Submit final report outlining approach for WLAs compliance.	Cadmium -	0.11	Copper -	3.2	Lead -	4.4	Silver -	0.09	Zinc -	14	Chlordane -	0.05	DDTs -	0.15	Total PCBs -	2	Total PAHs -	400	01/11/2013 - 25% area meeting WLAs 01/11/2015 - 50% area meeting WLAs 01/11/2017 - 75% area meeting WLAs 01/11/2021 - 100% area meeting WLAs January 11, 2007 January 11, 2011 July 11, 2011																																						
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TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date																																																																																																																
<p>Marina del Rey Harbor <i>Toxic Pollutants</i></p> <p>Effective Date: March 22, 2006</p> <p>BPA: Attachment A Chapter 7-18</p> <p>Resolution No. R05-012</p>	<p>WLA</p> <p>Metals storm water WLAs Apportioned between Permits (kg/yr): Copper - 0.022 Lead - 0.03 Zinc - 0.096</p> <p>Organics storm water WLAs Apportioned between Permits (g/yr) Chordane - 0.0003 Total PCBs - 0.015</p> <p>Other Submit Coordinated Monitoring Plan</p> <p>Submit Results of any Special Studies</p> <p>Submit Draft report outlining approach for compliance with WLAs that includes implementation methods, implementation schedule, proposed milestones, and any revisions to TMDL effectiveness.</p> <p>Submit Final report outlining approach for WLAs compliance with WLAs.</p>	<p>If pursuing a TMDL Specific Implementation Plan 01/11/2014 - 50% area meeting WLAs 01/11/2016 - 100% area meeting WLAs</p> <p>If pursuing an integrated approach 01/11/2013 - 25% area meeting WLAs 01/11/2015 - 50% area meeting WLAs 01/11/2017 - 75% area meeting WLAs 01/11/2021 - 100% area meeting WLAs</p> <p>March 22, 2007</p> <p>March 22, 2011</p> <p>March 22, 2011</p> <p>September 22, 2011</p>																																																																																																																
<p>Calleguas Creek, Its Tributaries and Mugu Lagoon <i>Organochlorine Pesticides (OC), Polychlorinated Biphenyls (PCBs), and Siltation</i></p> <p>Effective Date: March 24, 2006</p> <p>BPA: Attachment A, Chapter 7-17</p> <p>Resolution No. R05-010</p>	<p>WLA WLAs are held jointly with multiple dischargers.</p> <p>1. Interim and Final WLAs for Pollutants in Sediment for Stormwater Permittees</p> <p>a) Interim WLAs (ng/g)</p> <table><tr><th>Constituent</th><th>Mugu Lagoon¹</th><th>Calleguas Creek</th><th>Subwatershed Revolon Slough</th><th>Arroyo Las Posas</th><th>Arroyo Simi</th><th>Conejo Creek</th></tr><tr><td>Chlordane</td><td>25.0</td><td>17.0</td><td>48.0</td><td>3.3</td><td>3.3</td><td>3.4</td></tr><tr><td>4,4-DDD</td><td>69.0</td><td>66.0</td><td>400.0</td><td>290.0</td><td>14.0</td><td>5.3</td></tr><tr><td>4,4- DDE</td><td>300.0</td><td>470.0</td><td>1,600.0</td><td>950.0</td><td>170.0</td><td>20.0</td></tr><tr><td>4,4-DDT</td><td>39.0</td><td>110.0</td><td>690.0</td><td>670.0</td><td>25.0</td><td>2.0</td></tr><tr><td>Dieldrin</td><td>19.0</td><td>3.0</td><td>5.7</td><td>1.1</td><td>1.1</td><td>3.0</td></tr><tr><td>PCBs</td><td>180.0</td><td>3,800.0</td><td>7,600.0</td><td>25,700.0</td><td>25,700.0</td><td>3,800.0</td></tr><tr><td>Toxaphene</td><td>22,900.0</td><td>260.0</td><td>790.0</td><td>230.0</td><td>230.0</td><td>260.0</td></tr></table> <p>b) Final WLAs (ng/g)</p> <table><tr><th>Constituent</th><th>Mugu Lagoon¹</th><th>Calleguas Creek</th><th>Subwatershed Revolon Slough</th><th>Arroyo Las Posas</th><th>Arroyo Simi</th><th>Conejo Creek</th></tr><tr><td>Chlordane</td><td>3.3</td><td>3.3</td><td>0.9</td><td>3.3</td><td>3.3</td><td>3.3</td></tr><tr><td>4,4-DDD</td><td>2.0</td><td>2.0</td><td>2.0</td><td>2.0</td><td>2.0</td><td>2.0</td></tr><tr><td>4,4- DDE</td><td>2.2</td><td>1.4</td><td>1.4</td><td>1.4</td><td>1.4</td><td>1.4</td></tr><tr><td>4,4-DDT</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td><td>0.3</td></tr><tr><td>Dieldrin</td><td>4.3</td><td>0.2</td><td>0.1</td><td>0.2</td><td>0.2</td><td>0.2</td></tr><tr><td>PCBs</td><td>180.0</td><td>120.0</td><td>130.0</td><td>120.0</td><td>120.0</td><td>120.0</td></tr><tr><td>Toxaphene</td><td>360.0</td><td>0.6</td><td>1.0</td><td>0.6</td><td>0.6</td><td>0.6</td></tr></table> <p>¹ The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.</p>	Constituent	Mugu Lagoon ¹	Calleguas Creek	Subwatershed Revolon Slough	Arroyo Las Posas	Arroyo Simi	Conejo Creek	Chlordane	25.0	17.0	48.0	3.3	3.3	3.4	4,4-DDD	69.0	66.0	400.0	290.0	14.0	5.3	4,4- DDE	300.0	470.0	1,600.0	950.0	170.0	20.0	4,4-DDT	39.0	110.0	690.0	670.0	25.0	2.0	Dieldrin	19.0	3.0	5.7	1.1	1.1	3.0	PCBs	180.0	3,800.0	7,600.0	25,700.0	25,700.0	3,800.0	Toxaphene	22,900.0	260.0	790.0	230.0	230.0	260.0	Constituent	Mugu Lagoon ¹	Calleguas Creek	Subwatershed Revolon Slough	Arroyo Las Posas	Arroyo Simi	Conejo Creek	Chlordane	3.3	3.3	0.9	3.3	3.3	3.3	4,4-DDD	2.0	2.0	2.0	2.0	2.0	2.0	4,4- DDE	2.2	1.4	1.4	1.4	1.4	1.4	4,4-DDT	0.3	0.3	0.3	0.3	0.3	0.3	Dieldrin	4.3	0.2	0.1	0.2	0.2	0.2	PCBs	180.0	120.0	130.0	120.0	120.0	120.0	Toxaphene	360.0	0.6	1.0	0.6	0.6	0.6	<p>March 24, 2006 – Interim WLAs</p> <p>March 24, 2026 – Final WLAs</p>
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TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>2. Siltation WLA for MS4</p> <p>MS4 dischargers will receive an allocation of 2,496-tons/yr. reduction in sediment yield to Mugu Lagoon. The baseline from which the load reduction will be evaluated will be determined by a special study of this TMDL. The load allocation will apply after the baseline is established, as described in the Implementation Plan.</p> <p>Other Workplan for OC pesticides and PCBs or an Integrated Calleguas Creek Watershed OC pesticide and PCBs Monitoring Program.</p> <p>Initiate OC pesticide, PCBs, and siltation Monitoring Program</p> <p>Workplan to identify urban, industrial and domestic sources of OC pesticides, PCBs, control methods, and methods to implement collection and disposal.</p> <p>Special Study #1 Submit Workplan and convene a Science Advisory Panel to quantify sedimentation to Mugu Lagoon and sediment transport throughout the Calleguas Creek Watershed</p> <p>Special Study #2 Conduct study to identify land areas with high OC pesticides and PCBs concentrations and submit workplan to mitigate loadings from these areas.</p> <p>Implement a collection and disposal program for OC pesticides and PCBs.</p> <p>Special Study #1: Submit results and recommendations for refining siltation allocations</p> <p>Special Study #3: evaluate natural attenuation rates, methods to accelerate attenuation, and examine WLA attainability.</p>	<p>March 24, 2015</p> <p>September 24, 2006</p> <p>August 10, 2008</p> <p>March 24, 2007</p> <p>March 24, 2007</p> <p>March 24, 2007</p> <p>March 24, 2011</p> <p>March 24, 2014</p> <p>March 24, 2016</p>
<p>Los Angeles River Nitrogen Compounds</p> <p>Effective Date: March 23, 2004</p> <p>BPA: Attachment A, Chapter 7-8</p> <p>Resolution No. R03-009 and R03-016</p>	<p>WLA WLA is held jointly with multiple dischargers.</p> <p>a) Ammonia wasteload allocations (WLAs) for minor point sources are listed below by receiving waters:</p> <p style="text-align: center;">Water Body One-hour average WLA Thirty-day average WLA</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;">Constituent Thirty-day average WLA</p> <p>NO₃-N</p>	<p>March 23, 2004</p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date
	<p>8.0 mg/L</p> <p>NO₂-N 1.0 mg/L</p> <p>NO₃-N + NO₂-N 8.0 mg/L</p> <p>Other Submit a Monitoring Workplan to estimate nitrogen loadings from storm drain system.</p>	<p>March 23, 2005</p>
<p>Machado Lake <i>Eutrophic, Algae, Ammonia, and Odors (Nutrient)</i></p> <p>Effective Date: March 11, 2009</p> <p>BPA: Attachment A, Chapter 7-29</p> <p>Resolution No. R08-006</p>	<p>WLA</p> <p>Interim WLAs for Total Phosphorus (1.25 mg/L) and Total Nitrogen (3.50 mg/L).</p> <p>5 Year interim WLA for Total Phosphorus (1.25 mg/L)</p> <p>5 Year interim WLA for Total Nitrogen (2.45 mg/L)</p> <p>Final WLAs for Total Phosphorus (0.10 mg/L) and Total Nitrogen (1.0 mg/L)</p> <p>Other Submit Monitoring and Reporting Program (MRP) Plan</p> <p>Begin monitoring as outlined in approved MRP plan</p> <p>Submit TMDL Implementation Plan</p> <p>Begin implementation of BMPs to address discharges from storm drains, as set forth in TMDL Implementation Plan</p> <p>Annual Monitoring Reports</p> <p>Alternative mass-based WLA option: MRP and TMDL Implementation Plans</p> <p>Alternative mass-based WLA option: Begin Monitoring and Implementation Plan</p> <p>Alternative mass-based WLAs Annual Monitoring Reports</p>	<p>March 11, 2009</p> <p>March 11, 2014</p> <p>March 11, 2014</p> <p>September 11, 2018</p> <p>March 11, 2010</p> <p>Sixty days from date of MRP Plan approval</p> <p>March 11, 2011</p> <p>Sixty days from Implementation Plan approval.</p> <p>Annually - from date of MRP Plan approval</p> <p>September 11, 2011</p> <p>Sixty days from MRP/Implementation Plan approval</p> <p>Annually - from date of MRP/Implementation Plan approval</p>
<p>Upper Santa Clara River <i>Chloride</i></p> <p>Effective Date: April 6, 2010</p> <p>BPA: Attachment B, Chapter 7-6</p> <p>Resolution No. R08-012</p>	<p>WLA Chloride = 100 mg/L</p>	<p>April 6, 2010</p>

TMDL	WLAs/Deliverables/Action Required	Compliance Date Due Date															
Santa Clara River Nitrogen Compounds Effective Date: March 23, 2004 BPA: Attachment B, Chapter 7-9 Resolution No. R03-011	WLA Concentration-based WLAs <table><tr><th rowspan="2">Watershed Stream Reach</th><th>1-Hour (mg/L)</th><th>30-day (mg/L)</th><th>30-day Average (mg/L)</th></tr><tr><th>NH₃ - N</th><th>NH₃ - N</th><th>NO₃ - N + NO₂ - N</th></tr><tr><td>3</td><td>4.2</td><td>2.0</td><td>8.1</td></tr><tr><td>7</td><td>5.2</td><td>1.75</td><td>6.8</td></tr></table> Other Workplan to estimate ammonia and nitrogen loadings associated with runoff loads from the storm drain system. Annual Progress Reports on the Implementation Plan	Watershed Stream Reach	1-Hour (mg/L)	30-day (mg/L)	30-day Average (mg/L)	NH ₃ - N	NH ₃ - N	NO ₃ - N + NO ₂ - N	3	4.2	2.0	8.1	7	5.2	1.75	6.8	March 23, 2004 March 23, 2005 March 23, 2005 and annually thereafter
Watershed Stream Reach	1-Hour (mg/L)		30-day (mg/L)	30-day Average (mg/L)													
	NH ₃ - N	NH ₃ - N	NO ₃ - N + NO ₂ - N														
3	4.2	2.0	8.1														
7	5.2	1.75	6.8														
Calleguas Creek, Its Tributaries and Mugu Lagoon <i>Toxicity, Chlorpyrifos, and Diazinon</i> Effective Date: March 24, 2006 BPA: Attachment A, Chapter 7-16 Resolution No. R05-009	WLA <u>Toxicity</u> 1.0 TUc <u>Chlorpyrifos WLAs, ug/L</u> Interim WLA (4 day) – 0.45 Final WLA (4 day) – 0.014 <u>Diazinon WLAs, ug/L</u> Interim WLA (Acute, 1-hour) – 1.73 Interim WLA (Chronic, 4-day) – 0.556 Final WLA (Acute and Chronic) – 0.10 Submit workplan for integrated Calleguas Creek Monitoring Program for approval by EO Initiate monitoring program Investigate the pesticides that will replace Diazinon and Chlorpyrifos in the urban environment, their potential impact on receiving waters, and potential control measures Consider results of monitoring of sediment concentrations by source/land use type through special study required in the OC Pesticide, PCB and siltation TMDL Implementation Plan. If the special study is not completed through the OC Pesticides, PCBs and Siltation TMDL no consideration is necessary Develop and implement collection program for Diazinon and Chlorpyrifos and an educational program. Calculation of sediment transport rates in CCW. Consider findings of transport rates developed through the OC Pesticide, PCB and siltation TMDL	March 24, 2006 – Interim WLAs March 24, 2008 – Final WLAs September 24, 2006 March 24, 2008 March 24, 2008 6 months after completion of CCW OC pesticides, PCBs and Siltation TMDL sediment concentrations special study March 24, 2009 6 months after completion of CCW OC Pesticides, PCBs and Siltation TMDL															

Attachment A

LA Regional Board Comments to State Board on January 7, 2011 Draft NPDES Statewide Storm Water Permit for State of California, Department of Transportation

Table 1. TMDLs Applicable to Caltrans in the Los Angeles Region

<i>Basin Plan Chapter</i>	<i>TMDL Name(s)</i>
7-2	Los Angeles River Trash
7-3	Ballona Creek Trash
7-4	Santa Monica Bay Beaches Bacteria
7-5	Marina del Rey Harbor Bacteria
7-6	Upper Santa Clara River Chloride
7-8	Los Angeles River Nitrogen
7-9	Santa Clara River Nitrogen
7-10	Malibu Creek Bacteria
7-12	Ballona Creek Metals
7-13	Los Angeles River Metals
7-14	Ballona Creek Estuary Toxics
7-16	Calleguas Creek Toxicity, Chlorpyrifos, Diazinon
7-17	Calleguas Creek OC Pesticides, PCBs, Siltation
7-18	Marina del Rey Toxics
7-19	Calleguas Creek Metals and Selenium
7-21	Ballona Creek Bacteria
7-24	Revolon Slough and Beardsley Wash Trash
7-25	Ventura River Estuary Trash
7-26	Machado Trash
7-27	Legg Lake Trash
7-28	Ventura Harbor Beaches Bacteria
7-29	Machado Lake Nutrients
7-31	Malibu Creek Trash
N/A (USEPA)	San Gabriel River Metals
N/A (USEPA)	Santa Clara River Reach 3 Chloride
N/A (USEPA)	Malibu Creek Nutrients
N/A (USEPA)	Los Cerritos Channel Metals