

**Attachment A to Resolution No. R10-XXX**

**Amendment to the Water Quality Control Plan - Los Angeles Region to incorporate the Los Angeles River Watershed Bacteria TMDL**

Proposed for adoption by the California Regional Water Quality Control Board, Los Angeles Region on July, XX, 2010.

**Amendments:**

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7-28 Los Angeles River Watershed Bacteria TMDL

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Add:

Chapter 7. Total Maximum Daily Loads (TMDLs)  
Tables

7-39 Los Angeles River Watershed Bacteria TMDL

7-39.1. Los Angeles River Watershed Bacteria TMDL: Elements

7-39.2. Los Angeles River Watershed Bacteria TMDL: Responsible Parties for Waste

Load Allocations Assigned in the Los Angeles River Watershed Bacteria TMDL

7-39.3. Los Angeles River Watershed Bacteria TMDL: Implementation Schedule

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

Add:

7-39 Los Angeles River Watershed Bacteria TMDL

This TMDL was adopted by:

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

This TMDL was approved by:

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

The Office of Administrative Law on [Insert Date].

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

The following table includes the elements of this TMDL.

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**Table 7-39.1. Los Angeles River Watershed Bacteria TMDL: Elements**

<b>Element</b>	<b>Findings and Regulatory Provisions</b>
<b>Problem Statement</b>	<p>Elevated bacteria indicator densities are causing impairment of the water contact recreation (REC-1) beneficial use at the 303(d) listed waterbodies within the Los Angeles River Watershed. Recreating in waters with elevated bacteria indicator densities has been associated with adverse health effects. Specifically, local and national epidemiological studies demonstrate a causal relationship between adverse health effects and recreational water quality, as measured by bacteria indicator densities.</p>
<p><b>Numeric Target</b> (Interpretation of the numeric water quality objective, used to calculate allocations)</p>	<p>The TMDL has a multi-part numeric target based on the bacteriological water quality objectives for fresh water to protect the water contact recreation use set forth in Chapter 3. These targets are the most appropriate indicators of public health risk in recreational waters.</p> <p>The numeric targets for this TMDL are:</p> <ol style="list-style-type: none"> <li>1. Geometric Mean Target               <ol style="list-style-type: none"> <li>a. <i>E. coli</i> density shall not exceed 126/100 mL.</li> </ol> </li> <li>2. Single Sample Target               <ol style="list-style-type: none"> <li>b. <i>E. coli</i> density shall not exceed 235/100 mL.</li> </ol> </li> </ol> <p>The Basin Plan objectives and these targets are based on an acceptable health risk for fresh recreational waters of eight illnesses per 1,000 exposed individuals as recommended by the US EPA (USEPA, 1986).</p> <p>This TMDL uses a “reference system/anti-degradation approach” to implement the water quality objectives per the implementation provisions in Chapter 3. On the basis of the historical exceedance frequency at Southern California reference reaches, a certain number of daily exceedances of the single sample bacteria objectives are permitted. The allowable number of exceedance days is set such that (1) bacteriological water quality at any site is at least as good as at the reference site(s) and (2) there is no degradation of existing bacteriological water quality. This approach recognizes that there are natural sources of bacteria that may cause or contribute to exceedances of the single sample objectives and that it is not the intent of the Regional Board to require treatment or diversion of natural coastal creeks or to require treatment of natural sources of bacteria from undeveloped areas.</p> <p>For the single sample target, each river segment and tributary is assigned an allowable number of exceedance days for dry weather and wet</p>

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	<p>weather (defined as days with 0.1 inch of rain or greater and the three days following the rain event.)</p> <p>The geometric mean target may not be exceeded at any time.</p>
<p><b>Source Analysis</b></p>	<p>Bacteria sources in the Los Angeles River Watershed include anthropogenic and non-anthropogenic sources and point and non-point sources. Each of these sources contributes to the elevated levels of bacteria indicator densities in the Los Angeles River Watershed during dry and wet weather. There are currently five major National Pollutant Discharge Elimination System (NPDES) permits or Waste Discharge Requirements (WDRs) for discharges to the Los Angeles River Watershed. Of these, three are Water Reclamation Plants (WRPs), including the Donald C. Tillman WRP, Los Angeles-Glendale WRP, and Burbank WRP.</p> <p>There are three Municipal Separate Storm Sewer System (MS4) NPDES permits in the watershed, including the County of Los Angeles and the Incorporated Cities Therein, except the City of Long Beach; the City of Long Beach; and the California Department of Transportation (Caltrans) (referenced hereafter as the MS4 Permittees), which regulate municipal stormwater and urban runoff discharges.</p> <p>Discharges from storm drains <u>and tributaries</u> contribute roughly 13% of the flow in the Los Angeles River, while the three WRPs contribute roughly 72% of the flow in the river during dry weather. However, discharges from storm drains contribute almost 90% of the <i>E. coli</i> loading <u>from point sources</u> to the river during dry weather. During wet weather, WRP discharges may account for as little as 1% of the total flow in the river. While there are many sources of indicator bacteria to the MS4, discharges from the MS4 are the principal source of bacteria to the Los Angeles River and its tributaries in both dry weather and wet weather.</p> <p>Discharges from general NPDES permits, general industrial stormwater permits, general construction stormwater permits, industrial waste water permits, and WDR permits are not a significant source of bacteria to the river.</p> <p>Non-point sources include wildlife, direct human discharges, septic systems, equestrian activities, and birds. Though sanitary sewer overflows are frequent within the watershed they are estimated to account for only 2% of the total dry-weather load and a small portion of the wet-weather load. Non-point sources may also include in-channel sources such as re-growth or re-suspension from sediments; the relative</p>

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	contribution of such sources is unknown.									
<p><b>Waste Load Allocations</b> (for point sources)</p>	<p>Waste load allocations (WLAs) are expressed as allowable exceedance days.</p> <p>The allowable number of exceedance days for dry weather and wet weather is based on the more stringent of two criteria (1) exceedance days in the designated reference system and (2) exceedance days based on historical bacteriological data in the subject reach. This ensures that bacteriological water quality is at least as good as that of a largely undeveloped system and that there is no degradation of existing water quality.</p> <p>For this TMDL, the mainstem of the Los Angeles River was broken down into segments for allocations due to the availability of flow data.</p> <ul style="list-style-type: none"> <li>• Segment A includes Reaches 1 and a portion of Reach 2</li> <li>• Segment B includes a portion of Reach 2</li> <li>• Segment C includes Reach 3 and a portion of Reach 4</li> <li>• Segment D includes a portion of Reach 4 and Reach 5</li> <li>• Segment E includes Reach 6</li> </ul> <p>For each segment and tributary, allowable exceedance days are set on an annual basis as well as for dry weather and wet weather days.</p> <p>Certain reaches and tributaries of the Los Angeles River are subject to a High Flow Suspension (HFS) of the recreational beneficial uses as identified in Chapter 2. The HFS applies during specified conditions as defined in Chapter 2. During these conditions, the REC-1 and REC-2 beneficial uses are suspended for the affected reaches and tributaries.</p> <p>For MS4 dischargers, the <u>final</u> dry-weather WLAs and wet-weather WLAs <u>are based on exceedances of</u> the single sample targets <u>as</u> listed below.</p> <table border="1" data-bbox="479 1283 1172 1480"> <thead> <tr> <th>Allowable Number of Exceedance Days</th> <th>Daily Sampling</th> <th>Weekly Sampling</th> </tr> </thead> <tbody> <tr> <td>Dry Weather</td> <td align="center">5</td> <td align="center">1</td> </tr> <tr> <td>Non-HFS<sup>1</sup> Waterbodies Wet Weather</td> <td align="center">15</td> <td align="center">2</td> </tr> </tbody> </table>	Allowable Number of Exceedance Days	Daily Sampling	Weekly Sampling	Dry Weather	5	1	Non-HFS <sup>1</sup> Waterbodies Wet Weather	15	2
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<sup>1</sup> HFS stands for high flow suspension as defined in Chapter 2.

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	<table border="1" data-bbox="479 197 1172 262"> <tr> <td>HFS Waterbodies</td> <td align="center">10</td> <td align="center">2</td> </tr> <tr> <td>Wet Weather<sup>2</sup></td> <td></td> <td></td> </tr> </table> <p data-bbox="418 262 1198 357">The <u>final WLAs allow for zero (0) days of exceedances of the geometric mean target during any time at any river segment and tributary in the Los Angeles River Watershed.</u></p> <p data-bbox="418 388 1198 598"><u>This TMDL involves many responsible parties, and the dry weather implementation schedule includes actions at some downstream segments prior to upstream segments. MS4s can demonstrate compliance with the final WLAs – and differentiate their dry weather discharges from discharges from upstream sources and/or discharges from other responsible parties – by demonstrating one of the following equivalent conditions:</u></p> <ol data-bbox="462 619 1198 850" style="list-style-type: none"> <li><u>MS4 loading of <i>E. coli</i> to the corresponding LA River segment or tributary during dry weather is less than or equal to the loading rates detailed in the table below.</u></li> <li><u>Concentration of <i>E. coli</i> in MS4 discharges during dry weather is less than or equal to 235 MPN/100mL, based on flow-weighted average of all outfalls sampled.</u></li> <li><u>Zero discharge during dry weather</u></li> </ol> <table border="1" data-bbox="479 871 1161 1491"> <thead> <tr> <th data-bbox="479 871 860 976">River Segment or Tributary</th> <th data-bbox="860 871 1161 976"><u>Final <i>E. coli</i> Load from MS4s during Dry Weather</u> (10<sup>9</sup> MPN<sup>3</sup>/Day)</th> </tr> </thead> <tbody> <tr><td>Los Angeles River Segment<sup>4</sup> A</td><td align="center">274</td></tr> <tr><td>Los Angeles River Segment B</td><td align="center">471</td></tr> <tr><td>Los Angeles River Segment C</td><td align="center">421</td></tr> <tr><td>Los Angeles River Segment D</td><td align="center">413</td></tr> <tr><td>Los Angeles River Segment E</td><td align="center">29</td></tr> <tr><td>Aliso Canyon Wash</td><td align="center">21</td></tr> <tr><td>Arroyo Seco</td><td align="center">22</td></tr> <tr><td>Bell Creek</td><td align="center">13</td></tr> <tr><td>Bull Creek</td><td align="center">8</td></tr> <tr><td>Burbank Western Channel</td><td align="center">78</td></tr> <tr><td>Compton Creek</td><td align="center">6</td></tr> <tr><td>Dry Canyon</td><td align="center">6</td></tr> <tr><td>McCoy Canyon</td><td align="center">6</td></tr> <tr><td>Rio Hondo</td><td align="center">2</td></tr> <tr><td>Tujunga Wash</td><td align="center">9</td></tr> <tr><td>Verdugo Wash</td><td align="center">46</td></tr> </tbody> </table> <p data-bbox="418 1501 1198 1596"><u>In addition, MS4 dischargers are assigned interim WLAs for dry weather to account for variability in bacteria discharges. Interim dry weather WLAs are set at 1.5 times the final WLAs. Responsible</u></p>	HFS Waterbodies	10	2	Wet Weather <sup>2</sup>			River Segment or Tributary	<u>Final <i>E. coli</i> Load from MS4s during Dry Weather</u> (10 <sup>9</sup> MPN <sup>3</sup> /Day)	Los Angeles River Segment <sup>4</sup> A	274	Los Angeles River Segment B	471	Los Angeles River Segment C	421	Los Angeles River Segment D	413	Los Angeles River Segment E	29	Aliso Canyon Wash	21	Arroyo Seco	22	Bell Creek	13	Bull Creek	8	Burbank Western Channel	78	Compton Creek	6	Dry Canyon	6	McCoy Canyon	6	Rio Hondo	2	Tujunga Wash	9	Verdugo Wash	46
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	<p>agencies can demonstrate compliance with these interim WLAs by <u>demonstrating one of the three (3) equivalent conditions above, with the equivalent interim <i>E. coli</i> loading rates detailed in the table below.</u></p> <p>It is expected that MS4s will implement a suite of BMPs/actions that are designed to attain the <i>final WLAs</i>; the <i>interim WLAs</i> represent a <u>minimum performance threshold that must be attained after that suite of actions is implemented, per the implementation schedule.</u></p> <table border="1" data-bbox="480 489 1101 1142"> <thead> <tr> <th data-bbox="480 489 841 625"><u>River Segment or Tributary</u></th> <th data-bbox="841 489 1101 625"><u>Interim <i>E. coli</i> Load from MS4s during Dry Weather (10<sup>9</sup> MPN<sup>5</sup>/Day)</u></th> </tr> </thead> <tbody> <tr><td data-bbox="480 625 841 659"><u>Los Angeles River Segment<sup>6</sup> A</u></td><td data-bbox="841 625 1101 659"><u>411</u></td></tr> <tr><td data-bbox="480 659 841 693"><u>Los Angeles River Segment B</u></td><td data-bbox="841 659 1101 693"><u>707</u></td></tr> <tr><td data-bbox="480 693 841 726"><u>Los Angeles River Segment C</u></td><td data-bbox="841 693 1101 726"><u>632</u></td></tr> <tr><td data-bbox="480 726 841 760"><u>Los Angeles River Segment D</u></td><td data-bbox="841 726 1101 760"><u>620</u></td></tr> <tr><td data-bbox="480 760 841 793"><u>Los Angeles River Segment E</u></td><td data-bbox="841 760 1101 793"><u>44</u></td></tr> <tr><td data-bbox="480 793 841 827"><u>Aliso Canyon Wash</u></td><td data-bbox="841 793 1101 827"><u>32</u></td></tr> <tr><td data-bbox="480 827 841 861"><u>Arroyo Seco</u></td><td data-bbox="841 827 1101 861"><u>33</u></td></tr> <tr><td data-bbox="480 861 841 894"><u>Bell Creek</u></td><td data-bbox="841 861 1101 894"><u>20</u></td></tr> <tr><td data-bbox="480 894 841 928"><u>Bull Creek</u></td><td data-bbox="841 894 1101 928"><u>12</u></td></tr> <tr><td data-bbox="480 928 841 961"><u>Burbank Western Channel</u></td><td data-bbox="841 928 1101 961"><u>117</u></td></tr> <tr><td data-bbox="480 961 841 995"><u>Compton Creek</u></td><td data-bbox="841 961 1101 995"><u>9</u></td></tr> <tr><td data-bbox="480 995 841 1029"><u>Dry Canyon</u></td><td data-bbox="841 995 1101 1029"><u>9</u></td></tr> <tr><td data-bbox="480 1029 841 1062"><u>McCoy Canyon</u></td><td data-bbox="841 1029 1101 1062"><u>9</u></td></tr> <tr><td data-bbox="480 1062 841 1096"><u>Rio Hondo</u></td><td data-bbox="841 1062 1101 1096"><u>3</u></td></tr> <tr><td data-bbox="480 1096 841 1129"><u>Tujunga Wash</u></td><td data-bbox="841 1096 1101 1129"><u>14</u></td></tr> <tr><td data-bbox="480 1129 841 1163"><u>Verdugo Wash</u></td><td data-bbox="841 1129 1101 1163"><u>69</u></td></tr> </tbody> </table> <p>The interim and final WLAs are group-based, shared among all MS4s that drain to a segment or tributary. However, the <i>E. coli</i> loading rates in the tables above may be distributed based on proportional drainage area, upon approval of the Executive Officer.</p> <p>Along with interim WLAs, variability of bacteria discharges is also addressed through categorization of some MS4 bacteria discharges as “unexpected.” Unexpected Discharges are those outfalls that [1] exhibit <i>E. coli</i> loading rates that are less than 25<sup>th</sup> percentile during the monitoring events used to develop implementation strategies, but then [2] exhibit greater than 90<sup>th</sup> percentile loading rates during later monitoring events used to compare MS4 loading to the interim and final</p>	<u>River Segment or Tributary</u>	<u>Interim <i>E. coli</i> Load from MS4s during Dry Weather (10<sup>9</sup> MPN<sup>5</sup>/Day)</u>	<u>Los Angeles River Segment<sup>6</sup> A</u>	<u>411</u>	<u>Los Angeles River Segment B</u>	<u>707</u>	<u>Los Angeles River Segment C</u>	<u>632</u>	<u>Los Angeles River Segment D</u>	<u>620</u>	<u>Los Angeles River Segment E</u>	<u>44</u>	<u>Aliso Canyon Wash</u>	<u>32</u>	<u>Arroyo Seco</u>	<u>33</u>	<u>Bell Creek</u>	<u>20</u>	<u>Bull Creek</u>	<u>12</u>	<u>Burbank Western Channel</u>	<u>117</u>	<u>Compton Creek</u>	<u>9</u>	<u>Dry Canyon</u>	<u>9</u>	<u>McCoy Canyon</u>	<u>9</u>	<u>Rio Hondo</u>	<u>3</u>	<u>Tujunga Wash</u>	<u>14</u>	<u>Verdugo Wash</u>	<u>69</u>
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	<p><u>WLAs. These types of discharges are very challenging for MS4s to control, and thus are excluded from the calculations used to compare MS4 loading to interim and final WLAs for compliance purposes. Instead, MS4s are given additional time periods in the implementation schedule to abate Unexpected Discharges.</u></p> <p>General NPDES permits, individual NPDES permits, the Statewide Industrial Storm Water General Permit, the Statewide Construction Activity Storm Water General Permit, and WDR permittees in the Los Angeles River Watershed are assigned WLAs of zero (0) days of allowable exceedances of the single sample target for both dry and wet weather and no exceedances of the geometric mean target.</p> <p>The WLAs for the three WRPs in the watershed, which include D.C. Tillman, Los Angeles-Glendale, and Burbank WRP, are set equal to 2.2 MPN/100 mL of <i>E. coli</i> multiplied by the discharge rate at the time of sampling. <u>The current coliform limits for these WRPs are sufficient, and no revisions to the WRP NPDES permits are necessary based on this TMDL.</u></p>												
<p><b>Load Allocations</b> (for non-point sources)</p>	<p>Load allocations (LAs) are expressed as the number of daily or weekly sample days that may exceed the single sample target identified under “Numeric Target.”</p> <p>Lands not covered by a MS4 permit, such as the US Forest Service lands, California Department of Parks and Recreation lands, or National Park Service lands are assigned LAs. The dry-weather LAs and wet-weather LAs for the single sample target are listed in the table, below.</p> <table border="1" data-bbox="479 1092 1172 1354"> <thead> <tr> <th>Allowable Number of Exceedance Days</th> <th>Daily Sampling</th> <th>Weekly Sampling</th> </tr> </thead> <tbody> <tr> <td>Dry Weather</td> <td align="center">5</td> <td align="center">1</td> </tr> <tr> <td>Non-HFS<sup>7</sup> Waterbodies Wet Weather</td> <td align="center">15</td> <td align="center">2</td> </tr> <tr> <td>HFS Waterbodies Wet Weather<sup>8</sup></td> <td align="center">10</td> <td align="center">2</td> </tr> </tbody> </table> <p>Onsite Waste Treatment Systems are assigned LAs of zero (0) days of allowable exceedances for both dry and wet weather for the single sample target and geometric mean target.</p> <p>In addition, sewer collection systems are assigned LAs of zero (0) days of allowable exceedances for both dry and wet weather for the single sample target and the geometric mean target.</p>	Allowable Number of Exceedance Days	Daily Sampling	Weekly Sampling	Dry Weather	5	1	Non-HFS <sup>7</sup> Waterbodies Wet Weather	15	2	HFS Waterbodies Wet Weather <sup>8</sup>	10	2
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	<p>The LAs for the geometric mean target for any responsible party during any time at any river segment and tributary in the Los Angeles River Watershed is zero (0) days of allowable exceedances.</p>
<p><b>Implementation</b></p>	<p>The regulatory mechanisms used to implement the TMDL will include general NPDES permits, individual NPDES permits, MS4 Permits covering jurisdictions within the Los Angeles River Watershed, the Statewide Industrial Storm Water General Permit, the Statewide Construction Activity Storm Water General Permit, the Statewide Stormwater Permit for Caltrans Activities, and the authority contained in Sections 13263 and 13267 of the Cal. Water Code. For each discharger assigned a WLA, the appropriate Regional Board Order shall be reopened or amended when the order is reissued, in accordance with applicable laws, to incorporate the applicable WLA as a permit requirement. LAs will be implemented through California’s 2004 Nonpoint Source Pollution Control Program.</p> <p>This TMDL will be implemented through the mechanisms above in accordance with the implementation schedule. The implementation schedule is detailed in Table 7-39.3.</p> <p>MS4 Permittees may achieve the WLAs by employing any viable and legal implementation strategy. A recommended implementation approach is called the “MS4 Load Reduction Strategy” (LRS) and requires coordinated effort by all MS4 Permittees within a segment or tributary. <u>Each LRS must quantitatively demonstrate that the actions contained within the LRS are expected to result in attainment of one of the three (3) equivalent conditions for the final WLAs. The interim WLAs represent a minimum threshold that must be attained after those actions are taken, per the implementation schedule.</u></p> <p>Individual MS4 Permittees or subgroups of MS4 Permittees may choose to develop and implement alternative implementation strategies for dry weather implementation. <u>Group-based WLAs may be distributed based on proportional drainage area, upon approval of the Executive Officer. The implementation approaches herein, including the use of an MS4 Load Reduction Strategy, can still be followed based on the proportional WLAs. Proportional WLAs will be calculated utilizing the E. coli loading rates presented in the tables above and in the waste load allocations section.</u> For MS4 Permittees that choose to <i>not</i> follow an MS4 Load Reduction Strategy, the compliance schedule to attain final WLAs is shorter because only one implementation phase is allowed.</p> <p>Responsible parties must provide an Implementation Plan to the Regional Board outlining how each intends to cooperatively achieve</p>

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Element	Findings and Regulatory Provisions
	<p>compliance with the wet-weather WLAs. The report shall include implementation methods, an implementation schedule, and proposed milestones. The plan shall include a technically defensible quantitative linkage to the final wet-weather WLAs. The linkage should include target reductions in stormwater runoff and/or <i>E. coli</i>. The plan shall include quantitative estimates of the water quality benefits provided by the proposed structural and non-structural BMPs.</p> <p>Twenty-five years after the effective date of the TMDL, final WLAs and LAs shall be achieved at all segments and tributaries for dry and wet weather.</p>
<p><b>Margin of Safety</b></p>	<p>An explicit margin of safety is included in the allocations. Cumulatively, the dry-weather and wet-weather WLAs and LAs allow exceedances of the single sample target no more than 5% of the time on an annual basis. The <i>Water Quality Control Policy for Developing California's Clean Water Act Section 303(d) List</i> concludes that there are water quality impairments using a binomial distribution method, which lists waterbodies as impaired when the exceedances are between approximately 8 and 10 percent.</p> <p>An implicit margin of safety is incorporated in the interim allocations through the use of a conservative assumption of no (0) bacterial decay in discharges from storm drains to the receiving water when determining the assimilative capacity of the river segments and tributaries.</p>
<p><b>Seasonal Variations and Critical Conditions</b></p>	<p>Seasonal variations are addressed by developing separate allocations for dry weather and wet weather based on observed natural background levels of exceedance of bacteria indicators.</p> <p>Historic monitoring data for the Los Angeles River Watershed indicate that the critical condition for bacteria loading is during wet weather due to greater exceedance probabilities of the single sample bacteria objective than during dry weather. The 90<sup>th</sup> percentile 'storm year'<sup>9</sup> in terms of wet days<sup>10</sup> is used as the reference year. Selecting the 90<sup>th</sup> percentile year is a conservative approach that will accommodate a 'worst-case' scenario resulting in fewer exceedance days than the maximum allowed in drier years. Conversely, in the 10% of wetter years, there may be more than the allowable number of exceedance days.</p>
<p><b>Compliance Monitoring and Special Studies</b></p>	<p><b><u>Compliance Monitoring</u></b></p> <p>Monitoring shall be conducted by the responsible MS4 Permittees. Monitoring entails compliance monitoring to assess attainment of WLAs and monitoring in support of Load Reduction Strategies and wet-</p>

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**Attachment A to Resolution No. R10-XXX**

Element	Findings and Regulatory Provisions
	<p>weather implementation plans.</p> <p>An ambient water quality monitoring program shall be conducted by responsible parties as set forth in a Bacteria Coordinated Monitoring Plan (CMP), which shall be submitted for EO approval per the TMDL implementation schedule. The CMP shall detail: the number and location of sites, including at least one monitoring station per river segment, reach and tributary addressed under this TMDL; measurements and sample collection methods; and monitoring frequencies.</p> <p>Segments, reaches and tributaries addressed under this TMDL shall be monitored at least monthly until the subject segment, reach or tributary is at the end of its first implementation phase, to determine compliance with the interim WLA. Segments, reaches and tributaries addressed under this TMDL shall be monitored at least weekly to determine compliance with the in-stream targets after the first implementation phase.</p> <p>Monitoring for dischargers other than MS4 permittees to determine compliance with WLAs and LAs shall be established through monitoring and reporting programs conducted as part of the discharger's permit/waste discharge/waiver requirements.</p> <p><b><u>Optional Special Studies</u></b>  <u>Stakeholders are encouraged to develop special studies to evaluate the assumptions of this TMDL and to support the Basin Plan Triennial Review process. Two types of studies were highlighted by stakeholders as high priority, as described in the Staff Report:</u></p> <ul style="list-style-type: none"> <li>• <u>Studies to assess recreational beneficial use designations, including formation of a Water Quality Standards Working Group.</u></li> <li>• <u>Studies designed to characterize loadings from natural or in-stream sources and evaluate whether a Natural Source Exclusion is applicable.</u></li> </ul>

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**Attachment A to Resolution No. R10-XXX**

**7-39.5. Los Angeles River Bacteria TMDL: Responsible Parties for Waste Load Allocations**

Responsible Entity	Los Angeles River Segment					Los Angeles River Tributary										
	A	B	C	D	E	Aliso Canyon Wash	Arroyo Seco	Bell Creek	Bull Creek	Burbank Western Channel	Compton Creek	Dry Canyon Creek	McCoy Canyon Creek	Rio Hondo	Tujunga Wash	Verdugo Wash
Alhambra		√												√		
Arcadia														√		
Bell		√												√		
Bell		√												√		
Bradbury														√		
Burbank		√	√							√						
Bureau of Land Management					√											
Calabasas					√							√	√			
CA Dept. of Parks and Recreation				√	√											
Caltrans	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Carson	√										√					
Commerce		√												√		
Compton	√	√									√					
Cudahy		√														
Downey		√												√		
Duarte														√		
El Monte														√		
Glendale		√	√				√			√					√	√
Hidden Hills								√					√			
Huntington Park		√									√					

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**Attachment A to Resolution No. R10-XXX**

Responsible Entity	Los Angeles River Segment					Los Angeles River Tributary										
	A	B	C	D	E	Aliso Canyon Wash	Arroyo Seco	Bell Creek	Bull Creek	Burbank Western Channel	Compton Creek	Dry Canyon Creek	McCoy Canyon Creek	Rio Hondo	Tujunga Wash	Verdugo Wash
Inglewood											√					
Irwindale														√		
La Cañada Flintridge			√				√									√
Lakewood	√															
Long Beach	√										√					
Los Angeles		√	√	√	√	√	√	√	√	√	√	√	√		√	√
Los Angeles County	√	√	√		√	√	√	√	√		√	√	√	√	√	√
LA County Flood Control	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Lynwood	√	√									√					
Maywood		√														
Monrovia														√		
Montebello		√												√		
Monterey Park		√												√		
National Park Service				√	√											
Paramount	√	√														
Pasadena		√	√				√							√		√
Pico Rivera														√		
Rosemead														√		
San Fernando															√	

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**Attachment A to Resolution No. R10-XXX**

Responsible Entity	Los Angeles River Segment					Los Angeles River Tributary										
	A	B	C	D	E	Aliso Canyon Wash	Arroyo Seco	Bell Creek	Bull Creek	Burbank Western Channel	Compton Creek	Dry Canyon Creek	McCoy Canyon Creek	Rio Hondo	Tujunga Wash	Verdugo Wash
San Gabriel														√		
San Marino														√		
Santa Clarita									√							
Sierra Madre														√		
Signal Hill	√															
South El Monte														√		
South Gate		√									√			√		
South Pasadena		√					√							√		
State Land Commission					√											
Temple City														√		
U.S. Forest Service							√		√					√	√	√
Vernon		√									√					

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## Attachment A to Resolution No. R10-XXX

### 7-39.4. Los Angeles River Bacteria TMDL: Implementation Schedule

Implementation Action	Responsible Parties	Deadline
<b>SEGMENT B (upper and middle Reach 2 – Figueroa Street to Rosecrans Avenue)</b>		
<b>First phase – Segment B</b>		
Submit a Load Reduction Strategy (LRS) for Segment B ( <i>or submit an alternative compliance plan</i> )	MS4 and Caltrans NPDES Permittees discharging to Segment B	2.5 years after effective date of the TMDL
Approve LRS (or alternative compliance plan)	Regional Board, Executive Officer	6 months after submittal of LRS
Achieve interim WLA, <u>or demonstrate both completion of LRS and attainment of equivalent interim condition. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS	10 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>13 years after effective date of the TMDL</u>
<u>Achieve final WLA or demonstrate compliance with equivalent condition</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using alternative compliance plan</u>	<u>10 years after effective date of the TMDL</u>
<b>Second phase, if necessary – Segment B (LRS only)</b>		
Submit a new LRS	MS4 and Caltrans NPDES Permittees discharging to Segment B	11 years after effective date of the TMDL
Approve LRS	Regional Board, Executive Officer	6 months after submittal of a second LRS
<u>Demonstrate completion of LRS and submit results of LRS compliance monitoring.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS	16.5 years after effective date of the TMDL
Achieve final WLAs in Segment B or demonstrate <u>compliance with equivalent condition. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS	16.5 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>19.5 years after effective date of the TMDL</u>
<b>SEGMENT B TRIBUTARIES (Rio Hondo and Arroyo Seco)</b>		
<b>First phase – Segment B Tributaries (Rio Hondo and Arroyo Seco)</b>		
Submit a Load Reduction Strategy (LRS) for Segment B tributaries ( <i>or submit an alternative compliance plan</i> )	MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries	4 years after effective date of the TMDL
Approve LRS (or alternative compliance plan)	Regional Board, Executive Officer	6 months after submittal of LRS

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**Attachment A to Resolution No. R10-XXX**

<b>Implementation Action</b>	<b>Responsible Parties</b>	<b>Deadline</b>
Achieve interim WLA, <u>or demonstrate both completion of LRS and attainment of equivalent interim condition. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries, if using LRS	11.5 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>14.5 years after effective date of the TMDL</u>
<u>Achieve final WLA or demonstrate compliance with equivalent condition.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries, if using alternative compliance plan</u>	<u>11.5 years after effective date of the TMDL</u>
<b>Second phase, if necessary – SEGMENT B TRIBUTARIES (Rio Hondo and Arroyo Seco) (LRS only)</b>		
Submit a new LRS	MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries	12.5 years after effective date of the TMDL
Approve LRS	Regional Board, Executive Officer	6 months after submittal of a second LRS
<u>Demonstrate completion of LRS and submit results of LRS compliance monitoring. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries, if using LRS	18 years after effective date of the TMDL
Achieve final WLAs Segment B tributaries or demonstrate <u>compliance with equivalent condition.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries, if using LRS	18 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>21 years after effective date of the TMDL</u>
<b>SEGMENT A (lower Reach 2 and Reach 1 – Rosecrans Avenue to Willow Street)</b>		
<b>First phase – Segment A</b>		
Submit a Load Reduction Strategy (LRS) for Segment A (or submit an alternative compliance plan)	MS4 and Caltrans NPDES Permittees discharging to Segment A	4.5 years after effective date of the TMDL
Approve LRS (or alternative compliance plan)	Regional Board, Executive Officer	6 months after submittal of LRS
<u>Achieve interim WLA, or demonstrate both completion of LRS and attainment of equivalent interim condition. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment A, if using LRS	12 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>15 years after effective date of the TMDL</u>
<u>Achieve final WLA or demonstrate compliance with equivalent condition.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment A, if using alternative compliance plan</u>	<u>12 years after effective date of the TMDL</u>

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## Attachment A to Resolution No. R10-XXX

Implementation Action	Responsible Parties	Deadline
<b>Second phase, if necessary – Segment A (LRS only)</b>		
Submit a new LRS	MS4 and Caltrans NPDES Permittees discharging to Segment A	13 years after effective date of the TMDL
Approve LRS	Regional Board, Executive Officer	6 months after submittal of a second LRS
▼ Demonstrate <u>completion of LRS and submit results of LRS compliance monitoring. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment A, if using LRS	19.5 years after effective date of the TMDL
Achieve final WLAs in Segment A or demonstrate <u>compliance with equivalent condition.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment A, if using LRS	19.5 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>22.5 years after effective date of the TMDL</u>
<b>SEGMENT A TRIBUTARY (Compton Creek)</b>		
<b>First phase – Segment A Tributary</b>		
Submit a Load Reduction Strategy (LRS) for Segment A tributary (or submit an alternative compliance plan)	MS4 and Caltrans NPDES Permittees discharging to Segment A tributary	6 years after effective date of the TMDL
Approve LRS (or alternative compliance plan)	Regional Board, Executive Officer	6 months after submittal of LRS
▼ Achieve interim WLA, <u>or demonstrate both completion of LRS and attainment of equivalent interim condition. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment A tributary if using LRS	13.5 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>16.5 years after effective date of the TMDL</u>
<u>Achieve final WLA or demonstrate compliance with equivalent condition.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment A tributary, if using alternative compliance plan</u>	<u>13.5 years after effective date of the TMDL</u>
<b>Second phase, if necessary – Segment A tributary (LRS only)</b>		
Submit a new LRS	MS4 and Caltrans NPDES Permittees discharging to Segment A tributary	14.5 years after effective date of the TMDL
Approve LRS	Regional Board, Executive Officer	6 months after submittal of a second LRS
▼ Demonstrate <u>completion of LRS and submit results of LRS compliance monitoring. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment A tributary, if using LRS	20 years after effective date of the TMDL

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## Attachment A to Resolution No. R10-XXX

Implementation Action	Responsible Parties	Deadline
Achieve final WLAs in Segment A tributary or demonstrate <u>compliance with equivalent conditions</u> .	MS4 and Caltrans NPDES Permittees discharging to Segment A tributary, if using LRS	20 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>23 years after effective date of the TMDL</u>
<b>SEGMENT E (Reach 6 – LA River headwaters [confluence with Bell Creek and Calabasas Creek] to Balboa Boulevard)</b>		
<b>First phase – Segment E</b>		
Submit a Load Reduction Strategy (LRS) for Segment E (or submit an alternative compliance plan)	MS4 and Caltrans NPDES Permittees discharging to Segment E	5.5 years after effective date of the TMDL
Approve LRS (or alternative compliance plan)	Regional Board, Executive Officer	6 months after submittal of LRS
Achieve interim WLA, or, demonstrate both completion of LRS and attainment of equivalent interim condition. Identify Unexpected Discharges, if any.	MS4 and Caltrans NPDES Permittees discharging to Segment E, if using LRS	13 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>16 years after effective date of the TMDL</u>
<u>Achieve final WLA or demonstrate compliance with equivalent condition.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment E, if using alternative compliance plan</u>	<u>13 years after effective date of the TMDL</u>
<b>Second phase, if necessary –Segment E, (LRS only)</b>		
Submit a new LRS	MS4 and Caltrans NPDES Permittees discharging to Segment E	14 years after effective date of the TMDL
Approve LRS	Regional Board, Executive Officer	6 months after submittal of a second LRS
<u>Demonstrate completion of LRS and submit results of LRS compliance monitoring. Identify Unexpected Discharges, if any.</u>	MS4 and Caltrans NPDES Permittees discharging to Segment E, if using LRS	19.5 years after effective date of the TMDL
Achieve final WLAs in Segment E or demonstrate <u>compliance with equivalent conditions</u> .	MS4 and Caltrans NPDES Permittees discharging to Segment E, if using LRS	19.5 years after effective date of the TMDL
<u>Demonstrate that Unexpected Discharges have been controlled.</u>	<u>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</u>	<u>22.5 years after effective date of the TMDL</u>
<b>SEGMENT E TRIBUTARIES (Dry Canyon Creek, McCoy Creek, Bell Creek, and Aliso Canyon Wash)</b>		
<b>First phase – Segment E Tributaries</b>		

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**Attachment A to Resolution No. R10-XXX**

<b>Implementation Action</b>	<b>Responsible Parties</b>	<b>Deadline</b>
Submit a Load Reduction Strategy (LRS) for Segment E tributaries (or submit an alternative compliance plan)	MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries	9.5 years after effective date of the TMDL
Approve LRS (or alternative compliance plan)	Regional Board, Executive Officer	6 months after submittal of LRS
Achieve interim WLA, <del>or demonstrate both completion of LRS and attainment of equivalent interim condition. Identify Unexpected Discharges, if any.</del>	MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries, if using LRS	17 years after effective date of the TMDL
<del>Demonstrate that Unexpected Discharges have been controlled.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</del>	<del>20 years after effective date of the TMDL</del>
<del>Achieve final WLA or demonstrate compliance with equivalent condition.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries, if using alternative compliance plan</del>	<del>17 years after effective date of the TMDL</del>
<b>Second phase, if necessary – Segment E tributaries (LRS only)</b>		
Submit a new LRS	MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries	18 years after effective date of the TMDL
Approve LRS	Regional Board, Executive Officer	6 months after submittal of a second LRS
<del>Demonstrate completion of LRS and submit results of LRS compliance monitoring. Identify Unexpected Discharges, if any.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries, if using LRS</del>	<del>23.5 years after effective date of the TMDL</del>
<del>Achieve final WLAs in Segment E tributaries or demonstrate compliance with equivalent condition.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries, if using LRS</del>	<del>23.5 years after effective date of the TMDL</del>
<del>Demonstrate that Unexpected Discharges have been controlled.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</del>	<del>26.5 years after effective date of the TMDL</del>
<b>Segment C (lower Reach 4 and Reach 3 – Tujunga Avenue to Figueroa Street) Segment C Tributaries (Tujunga Wash, Burbank Western Channel, and Verdugo Wash) Segment D (Reach 5 and upper Reach 4 – Balboa Boulevard to Tujunga Avenue) Segment D Tributaries (Bull Creek)</b>		
<b>First phase – Segment C, Segment C Tributaries, Segment D, Segment D tributaries</b>		
Submit a Load Reduction Strategies (LRS) for Segment C, Segment C tributaries, Segment D, Segment D tributaries (or submit an alternative compliance plan)	MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries	11 years after effective date of the TMDL
Approve LRS (or alternative compliance plan)	Regional Board, Executive Officer	6 months after submittal of LRS

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**Attachment A to Resolution No. R10-XXX**

<b>Implementation Action</b>	<b>Responsible Parties</b>	<b>Deadline</b>
Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries, if using LRS	15.5 years after effective date of the TMDL
Achieve interim WLA, <del>or demonstrate both completion of LRS and attainment of equivalent interim condition. Identify Unexpected Discharges, if any.</del>	MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries, if using LRS	18.5 years after effective date of the TMDL
<del>Demonstrate that Unexpected Discharges have been controlled.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</del>	<del>21.5 years after effective date of the TMDL</del>
<del>Achieve final WLA or demonstrate compliance with equivalent condition.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries, if using alternative compliance plan</del>	<del>18.5 years after effective date of the TMDL</del>
<b>Second phase, if necessary - Segment C, Segment C Tributaries, Segment D, Segment D Tributaries (LRS only)</b>		
Submit a new LRS	MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries	19.5 years after effective date of the TMDL
Approve LRS	Regional Board, Executive Officer	6 months after submittal of a second LRS
<del>Demonstrate completion of LRS and submit results of LRS compliance monitoring. Identify Unexpected Discharges, if any.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries, if using LRS</del>	<del>25 years after effective date of the TMDL</del>
<del>Achieve final WLAs in Segment C, Segment C tributaries, Segment D, Segment D tributaries or demonstrate compliance with equivalent condition.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries if using LRS</del>	<del>25 years after effective date of the TMDL</del>
<del>Demonstrate that Unexpected Discharges have been controlled.</del>	<del>MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS</del>	<del>28 years after effective date of the TMDL</del>
<b>All Los Angeles River Segments and Tributaries</b>		
<del>Responsible parties and agencies shall provide to the Regional Board results of optional special studies.</del>	<del>Interested responsible parties</del>	<del>Within 5 years of the effective date of the TMDL</del>
<del>The Regional Board shall reconsider the Basin Plan and/or provisions of the TMDL including evidence provided through specials studies.<sup>11,12</sup></del>	<del>Regional Board</del>	<del>Within 1 year after submittal of the results of special studies</del>

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**Attachment A to Resolution No. R10-XXX**

<b>Implementation Action</b>	<b>Responsible Parties</b>	<b>Deadline</b>
Submit implementation plan for wet weather with interim milestones	All responsible parties	Within 10 years of the effective date of the TMDL
Achieve final dry-weather WLAs and LAs, <u>or equivalent conditions</u>	All responsible parties	25 years after effective date of the TMDL
Achieve final wet-weather WLAs and LAs	All responsible parties	25 years after effective date of the TMDL

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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS	7 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment B, if using LRS	14.5 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries, if using LRS	8.5 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment B tributaries, if using LRS	16 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment A, if using LRS	9 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment A, if using LRS	17.5 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment A tributary if using LRS	10.5 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment A tributary, if using LRS	18 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment E, if using LRS	10 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment E, if using LRS	17.5 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries if using LRS	14 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment E tributaries, if using LRS	21.5 years after effective date of the TMDL
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Complete implementation of LRS	MS4 and Caltrans NPDES Permittees discharging to Segment C, Segment C tributaries, Segment D, Segment D tributaries if using LRS	23 years after effective date of the TMDL
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