

**CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS  
FOR DISCHARGES FROM IRRIGATED AGRICULTURAL LANDS  
ORDER NO. R4-2016 – 0143**

**APPENDIX 5**

**WATER QUALITY BENCHMARKS BASED UPON TMDL LOAD ALLOCATIONS**

Calleguas Creek Watershed and Mugu Lagoon OC Pesticides & PCBs TMDL							Compliance Date
Compliance with interim and final sediment based load allocations (LAs) is measured as an in-stream annual average at the base of each subwatershed.							March 24, 2006
<b>Interim Sediment LAs (ng/g)</b>							
Constituent	Subwatershed						
	Mugu Lagoon <sup>1</sup>	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	
<sup>1</sup> The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.							
<b>Final Sediment LAs (ng/g)</b>							March 24, 2026
Constituent	Subwatershed						
	Mugu Lagoon <sup>1</sup>	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	
<sup>1</sup> The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.							
<b>Siltation LAs</b> 2,704 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 results of this special study are due March 24, 2014.							March 24, 2015

<b>Calleguas Creek Watershed and Mugu Lagoon Toxicity, Chlorpyrifos, and Diazinon TMDL</b>	<b>Compliance Date</b>																
<p>Interim Chlorpyrifos Load Allocations (ug/L) apply watershed-wide</p> <table border="1" data-bbox="521 384 911 478"> <thead> <tr> <th><b>Acute (1hour)</b></th> <th><b>Chronic (4 day)</b></th> </tr> </thead> <tbody> <tr> <td>2.57</td> <td>0.810</td> </tr> </tbody> </table> <p>Interim Diazinon Load Allocations (ug/L) apply watershed-wide</p> <table border="1" data-bbox="492 579 938 669"> <thead> <tr> <th><b>Acute (1hour)</b></th> <th><b>Chronic (4 day)</b></th> </tr> </thead> <tbody> <tr> <td>0.278</td> <td>0.138</td> </tr> </tbody> </table>	<b>Acute (1hour)</b>	<b>Chronic (4 day)</b>	2.57	0.810	<b>Acute (1hour)</b>	<b>Chronic (4 day)</b>	0.278	0.138	<p>March 24, 2006</p>								
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Calleguas Creek Watershed Boron, Chloride, Sulfate and TDS (Salts) TMDL		Compliance Date																																			
<p style="text-align: center;">Interim Dry Weather Load Allocations</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Constituent</th> <th>Interim Limit (mg/L)</th> </tr> </thead> <tbody> <tr> <td>Boron Total</td> <td>1.8</td> </tr> <tr> <td>Chloride Total</td> <td>230</td> </tr> <tr> <td>Sulfate Total</td> <td>1962</td> </tr> <tr> <td>TDS Total</td> <td>3995</td> </tr> </tbody> </table> <p>Interim dry weather load allocations are measured as in-stream monthly averages at the based of each subwatershed, except for chloride which is measured as an instantaneous maximum.</p> <p>Dry weather LAs apply when flow rates are below the 86<sup>th</sup> percentile and there was no measurable precipitation in the previous 24 hour period.</p> <p>The 86<sup>th</sup> percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1<sup>st</sup> – Sept. 30<sup>th</sup>) that the sample was collected.</p>		Constituent	Interim Limit (mg/L)	Boron Total	1.8	Chloride Total	230	Sulfate Total	1962	TDS Total	3995	Dec. 2, 2008																									
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<b>Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL</b>	<b>Compliance Date</b>
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Dry Weather - Final Load allocations (lbs/day) for total recoverable metals

<b>Constituent</b>	<b>Calleguas Creek</b>		
	<b>Low Flow</b>	<b>Avg. Flow</b>	<b>Elevated Flow</b>
Copper*	0.07 x (WER - 0.03)	0.12 x (WER - 0.02)	0.31 x (WER - 0.05)
Nickel	0.420	0.260	0.970
Selenium	--	--	--

\* If site-specific WERs are approved by the Regional Board, TMDL load allocations shall be implemented in accordance with the approved WERs using the equations set forth above.

<b>Calleguas Creek</b>	
<b>Flow Category</b>	<b>Flow Rate (cfs)</b>
Low	0 - 5
Average	5 - 21
Elevated	21 - 30

<b>Constituent</b>	<b>Revolon Slough</b>		
	<b>Low Flow</b>	<b>Avg. Flow</b>	<b>Elevated Flow</b>
Copper*	0.07 x (WER - 0.03)	0.14 x (WER - 0.07)	0.35 x (WER - 0.07)
Nickel	0.390	0.690	1.600
Selenium	0.008	0.007	0.018

\* If site-specific WERs are approved by the Regional Board, TMDL load allocations shall be implemented in accordance with the approved WERs using the equations set forth above.

<b>Revolon Slough</b>	
<b>Flow Category</b>	<b>Flow Rate (cfs)</b>
Low	0 - 10
Average	10 - 17
Elevated	17 - 22

March 26, 2022

Wet Weather Final Load Allocations (lbs/day) for total recoverable metals

<b>Constituent</b>	<b>Calleguas Creek</b>	<b>Revolon Slough</b>
Copper*	$(0.00017 \times Q^2 \times 0.01 \times Q - 0.05) \times$ WER - 0.02	$(0.00123 \times Q^2 + 0.0034 \times Q) \times$ WER
Nickel	$0.014 \times Q^2 + 0.82 \times Q$	$0.027 \times Q^2 + 0.47 \times Q$
Selenium	--	$0.1 \times Q^2 + 1.8 \times Q$

\* If site-specific WERs are approved by the Regional Board, TMDL load allocations shall be implemented in accordance with the approved WERs using the equations set forth above.  
Q = Daily storm volume

<b>Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL</b>			<b>Compliance Date</b>															
<p>Final Load allocations for Mercury in Suspended Sediment (lbs/year)</p> <table border="1"> <thead> <tr> <th></th> <th><b>Calleguas Creek</b></th> <th><b>Revolon Slough</b></th> </tr> <tr> <th><b>Flow Range MGY</b></th> <th><b>Agriculture</b></th> <th><b>Agriculture</b></th> </tr> </thead> <tbody> <tr> <td>0-15,000</td> <td>0.5</td> <td>0.2</td> </tr> <tr> <td>15,000-25,000</td> <td>1.9</td> <td>0.8</td> </tr> <tr> <td>Above 25,000</td> <td>11.2</td> <td>2.2</td> </tr> </tbody> </table> <p>Final load allocations are measured in-stream at the based of Revolon Slough and Calleguas Creek.</p>				<b>Calleguas Creek</b>	<b>Revolon Slough</b>	<b>Flow Range MGY</b>	<b>Agriculture</b>	<b>Agriculture</b>	0-15,000	0.5	0.2	15,000-25,000	1.9	0.8	Above 25,000	11.2	2.2	<p>March 26, 2022</p>
	<b>Calleguas Creek</b>	<b>Revolon Slough</b>																
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<b>Calleguas Creek Nitrogen Compounds and Related Effects TMDL</b>		<b>Compliance Date</b>		
<table border="1"> <thead> <tr> <th><b>Nitrate-N + Nitrite-N (mg/L)</b></th> </tr> </thead> <tbody> <tr> <td>9.0</td> </tr> </tbody> </table>		<b>Nitrate-N + Nitrite-N (mg/L)</b>	9.0	<p>July 16, 2010</p>
<b>Nitrate-N + Nitrite-N (mg/L)</b>				
9.0				

<b>Revolon Slough and Beardsley Wash Trash TMDL</b>	<b>Compliance Date</b>
<p>LAs are zero trash. Dischargers may achieve compliance with the LAs by implementing a minimum frequency of assessment and collection/best management practice (MFAC/BMP) program. By March 6, 2010, agricultural dischargers must demonstrate full compliance and attainment of the zero trash target's requirement that trash is not accumulating in deleterious amounts between the required trash assessment and collection events.</p>	<p>March 6, 2010</p>

Upper Santa Clara River Chloride TMDL, Revisions		Compliance Date				
<table border="1"> <thead> <tr> <th>Reach</th> <th>Chloride LA (mg/L)</th> </tr> </thead> <tbody> <tr> <td>4B, 5, and 6</td> <td>100</td> </tr> </tbody> </table>		Reach	Chloride LA (mg/L)	4B, 5, and 6	100	April 28, 2015
Reach	Chloride LA (mg/L)					
4B, 5, and 6	100					

Santa Clara River Nitrogen Compounds TMDL		Compliance Date						
<table border="1"> <thead> <tr> <th>Reach</th> <th>NH<sub>3</sub>-N + NO<sub>2</sub>-N + NO<sub>3</sub>-N (mg-N/L)</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>8.5</td> </tr> <tr> <td>Mint Canyon Reach 1 Wheeler Canyon/Todd Barranca Brown Barranca/Long Canyon Other Santa Clara River Reaches</td> <td>10</td> </tr> </tbody> </table>		Reach	NH <sub>3</sub> -N + NO <sub>2</sub> -N + NO <sub>3</sub> -N (mg-N/L)	7	8.5	Mint Canyon Reach 1 Wheeler Canyon/Todd Barranca Brown Barranca/Long Canyon Other Santa Clara River Reaches	10	March 23, 2004
Reach	NH <sub>3</sub> -N + NO <sub>2</sub> -N + NO <sub>3</sub> -N (mg-N/L)							
7	8.5							
Mint Canyon Reach 1 Wheeler Canyon/Todd Barranca Brown Barranca/Long Canyon Other Santa Clara River Reaches	10							

Malibu Creek Watershed Nutrients TMDL			Compliance Date						
<table border="1"> <thead> <tr> <th>Season</th> <th>Total Nitrogen (lbs/day)</th> <th>Total Phosphorus (lbs/day)</th> </tr> </thead> <tbody> <tr> <td>Summer (April 15 – November 15)</td> <td>3</td> <td>0.2</td> </tr> </tbody> </table>			Season	Total Nitrogen (lbs/day)	Total Phosphorus (lbs/day)	Summer (April 15 – November 15)	3	0.2	March 21, 2003
Season	Total Nitrogen (lbs/day)	Total Phosphorus (lbs/day)							
Summer (April 15 – November 15)	3	0.2							
<table border="1"> <thead> <tr> <th>Season</th> <th>Nitrogen (mg/L) (nitrate-N + nitrite-N)</th> </tr> </thead> <tbody> <tr> <td>Winter (November 16 – April 14)</td> <td>8</td> </tr> </tbody> </table>			Season	Nitrogen (mg/L) (nitrate-N + nitrite-N)	Winter (November 16 – April 14)	8			
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Winter (November 16 – April 14)	8								

Ventura River Estuary Trash TMDL	Compliance Date
<p>LAs are zero trash. Dischargers may achieve compliance with the LAs by implementing a minimum frequency of assessment and collection/best management practice (MFAC/BMP) program. By March 6, 2010, agricultural dischargers must demonstrate full compliance and attainment of the zero trash target's requirement that trash is not accumulating in deleterious amounts between the required trash assessment and collection events.</p>	March 6, 2010

The Santa Clara River Estuary Toxaphene TMDL			Compliance Date
			October 7, 2010
<b>Reach</b>	<b>Toxaphene Fish Tissue Target</b>	<b>Toxaphene Allocation for Concentration in Suspended Sediment</b>	
Santa Clara River Estuary	6.1 (µg/kg)	0.1 (µg/kg)	
<p>Within ten years of the compliance date, toxaphene concentrations in fish tissue shall be attenuating such that it appears that numeric targets will be achieved within 15 years.</p>			

McGrath Lake PCBs, Pesticides and Sediment Toxicity TMDL			Compliance Date
			June 30, 2021
<b>Pollutant</b>	<b>Water Column Load Allocation (µg/L)</b>	<b>Load Allocation for Concentration in Suspended Sediment (µg/dry kg)</b>	
Chlordane	0.00059	0.5	
Dieldrin	0.00014	0.02	
4,4'-DDT	0.00059	1	
4,4'-DDE	0.00059	2.2	
4,4'-DDD	0.00084	2	
Total DDT	--	1.58	
Total PCBs	0.00017	22.7	



<b>Oxnard Drain No. 3 Pesticides, PCBs, and Sediment Toxicity TMDL</b>				<b>Compliance Date</b>																																												
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<p>1: Sediment concentrations associated with suspended sediment and Oxnard Drain 3 bottom sediment.</p> <p>2: Sediment allocations apply if there are fish tissue or sediment toxicity exceedances. All sediment allocations are ERLs, except toxaphene. Toxaphene does not have an ERL, so the TEL concentration was selected.</p> <p>3: The alternate sediment allocation applies when the fish tissue target and the sediment toxicity allocation are achieved in Oxnard Drain 3. The alternate sediment allocation concentrations match the Mugu Lagoon TMDL allocations.</p> <p>4: Bifenthrin and chlorpyrifos allocations included to address the sediment toxicity impairment.</p>																																																

<b>Malibu Creek and Lagoon TMDLs for Sedimentation and Nutrients to Address Benthic Community Impairments</b>				<b>Compliance Date</b>								
<table border="1"> <thead> <tr> <th>Total Nitrogen (mg/L) Summer</th> <th>Total Nitrogen (mg/L) Winter</th> <th>Total Phosphorus (mg/L) Summer</th> <th>Total Phosphorus (mg/L) Winter</th> </tr> </thead> <tbody> <tr> <td>0.65</td> <td>1.00</td> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table>				Total Nitrogen (mg/L) Summer	Total Nitrogen (mg/L) Winter	Total Phosphorus (mg/L) Summer	Total Phosphorus (mg/L) Winter	0.65	1.00	0.10	0.10	March 26, 2012
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Ventura River Algae TMDL			Compliance Date																								
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Santa Clara River Bacteria TMDL			Compliance Date																		
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**Final Allowable exceedance days:**

<b>Time Period</b>	<b>Santa Clara River Reaches 3, 5, 6, &amp; 7</b>	<b>Santa Clara River Estuary</b>
Dry Weather	5 allowable exceedance days of single sample objectives	Not Applicable
	0 allowable exceedances of geometric mean objectives	
Wet Weather	16 allowable exceedance days of single sample objectives	25 allowable exceedance days of single sample objectives
	0 allowable exceedances of geometric mean objectives	0 allowable exceedances of geometric mean objectives
Summer Dry Weather	Not Applicable	10 allowable exceedance days of single sample objectives
		0 allowable exceedances of geometric mean objectives
Winter Dry Weather (November 1 – March 31)	Not Applicable	12 allowable exceedance days of single sample objectives
		0 allowable exceedances of geometric mean objectives

March 21, 2023  
dry weather

March 21, 2029  
wet weather

The calculated number of exceedance days assumes that daily sampling is conducted. To determine the number of allowable exceedances for less frequent sampling, a ratio is used.