CONDITIONAL WAIVER OF WASTE DISCHARGE REQUIREMENTS
FOR DISCHARGES FROM IRRIGATED LANDS
ORDER NO. R4-2010 – XXXX

APPENDIX 3

WATER QUALITY BENCHMARKS BASED UPON TMDL LOAD ALLOCATIONS

(Load allocations that apply after the term of the waiver are shaded in grey)

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.

Interim Sediment LAs (ng/g)

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

March 24, 2006

[1]The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.

Final Sediment LAs (ng/g)

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

March 24, 2026

[1] The Mugu Lagoon subwatershed includes Duck Pond/Agricultural Drain/Mugu/Oxnard Drain #2.

Siltation LAs

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

<table>
<tr><th>Calleguas Creek Watershed and Mugu Lagoon Toxicity, Chlorpyrifos, and Diazinon TMDL</th><th>Compliance Date</th></tr>
<tr><td>Interim Chlorpyrifos Load Allocations (ug/L) apply watershed-wide
<table><tr><th>Acute (1hour)</th><th>Chronic (4 day)</th></tr><tr><td>2.57</td><td>0.810</td></tr></table>
Interim Diazinon Load Allocations (ug/L) apply watershed-wide
<table><tr><th>Acute (1hour)</th><th>Chronic (4 day)</th></tr><tr><td>0.278</td><td>0.138</td></tr></table></td><td>March 24, 2006</td></tr>
<tr><td>A load allocation of 1.0 TUc applies watershed-wide.</td><td>March 24, 2006</td></tr>
<tr><td>Final Chlorpyrifos Load Allocations (ug/L)
<table><tr><th>Subwatershed</th><th>Acute & Chronic</th></tr><tr><td>Arroyo Simi</td><td>0.014</td></tr><tr><td>Las Posas</td><td>0.014</td></tr><tr><td>Conejo</td><td>0.014</td></tr><tr><td>Calleguas</td><td>0.0133</td></tr><tr><td>Revolon</td><td>0.0133</td></tr><tr><td>Mugu Lagoon</td><td>0.014</td></tr></table>
Final Diazinon Load Allocations (ug/L) apply watershed-wide
<table><tr><th>Acute & Chronic</th></tr><tr><td>0.1</td></tr></table></td><td>March 24, 2016</td></tr>
</table>

<table>
<tr><th>Calleguas Creek Watershed Boron, Chloride, Sulfate and TDS (Salts) TMDL</th><th>Compliance Date</th></tr>
<tr><td>Interim Dry Weather Load Allocations
<table><tr><th>Constituent</th><th>Interim Limit (mg/L)</th></tr><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></table></td><td>Dec. 2, 2008</td></tr>
</table>

<table>
<tr><th>Calleguas Creek Watershed Boron, Chloride, Sulfate and TDS (Salts) TMDL</th><th>Compliance Date</th></tr>
<tr><td>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.

Dry weather LAs apply when flow rates are below the 86th percentile and there was no measurable precipitation in the previous 24 hour period.

The 86th percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1st – Sept. 30th) that the sample was collected.</td><td></td></tr>
<tr><td>Final Dry Weather Load Allocations

<table>
<tr><th>Subwatershed</th><th>Boron Allocation (lb/day)</th><th>Chloride Allocation (lb/day)</th><th>TDS Allocation (lb/day)</th><th>Sulfate Allocation (lb/day)</th></tr>
<tr><td>Simi</td><td>641</td><td>3,631</td><td>1,068</td><td>4</td></tr>
<tr><td>Las Posas</td><td>2,109</td><td>11,952</td><td>3,515</td><td>N/A</td></tr>
<tr><td>Conejo</td><td>743</td><td>4,212</td><td>1,239</td><td>N/A</td></tr>
<tr><td>Camarillo</td><td>59</td><td>336</td><td>99</td><td>N/A</td></tr>
<tr><td>Pleasant Valley</td><td>305</td><td>1,730</td><td>509</td><td>N/A</td></tr>
<tr><td>Revolon</td><td>7,238</td><td>41,015</td><td>12,063</td><td>48</td></tr>
</table>

Dry weather LAs apply in the receiving water at the base of each subwatershed when flow rates are below the 86th percentile and there was no measurable precipitation in the previous 24 hour period.

The 86th percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1st – Sept. 30th) that the sample was collected.</td><td>Dec. 23, 2023</td></tr>
</table>

<table>
<tr><th>Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL</th><th>Compliance Date</th></tr>
<tr><td>
Interim Load Allocations for total recoverable metals
<table>
<tr><th></th><th colspan="3">Calleguas and Conejo Creek</th></tr>
<tr><th>Constituent</th><th>Dry Daily Maximum (ug/L)</th><th>Dry Monthly Average (ug/L)</th><th>Wet Daily Maximum (ug/L)</th></tr>
<tr><td>Copper</td><td>24</td><td>19</td><td>1390</td></tr>
<tr><td>Nickel</td><td>43</td><td>42</td><td>--</td></tr>
<tr><td>Selenium</td><td>--</td><td>--</td><td>--</td></tr>
</table>
<table>
<tr><th></th><th colspan="3">Revolon Slough</th></tr>
<tr><th>Constituent</th><th>Dry Daily Maximum (ug/L)</th><th>Dry Monthly Average (ug/L)</th><th>Wet Daily Maximum (ug/L)</th></tr>
<tr><td>Copper</td><td>24</td><td>19</td><td>1390</td></tr>
<tr><td>Nickel</td><td>43</td><td>42</td><td>--</td></tr>
<tr><td>Selenium</td><td>6.7 (c)</td><td>6 (c)</td><td>--</td></tr>
</table>
c – Attainment of interim limits will be evaluated in consideration of background loading data, if available.

Dry weather LAs apply to days when flows in the stream are less than the 86th percentile flow rate for each subwatershed. Wet weather LAs apply to days when flows in the stream exceed the 86th percentile flow rate for each subwatershed.

The 86th percentile flow rate shall be calculated based on flow in the hydrologic year (Oct. 1st – Sept. 30th) that the sample was collected.
</td><td>March 26, 2007</td></tr>
<tr><td>
Interim Load allocations for Mercury in Suspended Sediment (lbs/year)
<table>
<tr><th>Flow Range
million gallons/year</th><th>Calleguas Creek</th><th>Revolon Slough</th></tr>
<tr><td>0-15,000</td><td>3.9</td><td>2</td></tr>
<tr><td>15,000-25,000</td><td>12.6</td><td>4.8</td></tr>
<tr><td>Above 25,000</td><td>77.5</td><td>12.2</td></tr>
</table>
Interim load allocations are measured in-stream at the based of Revolon Slough and Calleguas Creek.
</td><td>March 26, 2007</td></tr>
</table>

Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL	Compliance Date

Dry Weather - Final Load allocations (lbs/day) for total recoverable metals

Constituent	Calleguas Creek		
	Low Flow	Avg. Flow	Elevated Flow
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.

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

	Revolon Slough		
Constituent	Low Flow	Avg. Flow	Elevated Flow
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.

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

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

Constituent	Calleguas Creek	Revolon Slough
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

March 26, 2022

<table>
<tr><th>Calleguas Creek Watershed and Mugu Lagoon Metals and Selenium TMDL</th><th>Compliance Date</th></tr>
<tr><td>Final Load allocations for Mercury in Suspended Sediment (lbs/year)
<table><tr><th></th><th>Calleguas Creek</th><th>Revolon Slough</th></tr><tr><th>Flow Range MGY</th><th>Agriculture</th><th>Agriculture</th></tr><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></table>
Final load allocations are measured in-stream at the based of Revolon Slough and Calleguas Creek.</td><td>March 26, 2022</td></tr>
</table>

<table>
<tr><th>Calleguas Creek Nitrogen Compounds and Related Effects TMDL</th><th>Compliance Date</th></tr>
<tr><td><table><tr><th>Nitrate-N + Nitrite-N (mg/L)</th></tr><tr><td>9.0</td></tr></table></td><td>July 16, 2010</td></tr>
</table>

Revolon Slough and Beardsley Wash Trash TMDL	Compliance Date
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.	March 6, 2010

<table>
<tr><th>Upper Santa Clara River Chloride TMDL, Revisions</th><th>Compliance Date</th></tr>
<tr><td>
<table>
<tr><th>Reach</th><th>Chloride Conditional LA (mg/L)</th></tr>
<tr><td rowspan="2">6</td><td>150 (12 month average)</td></tr>
<tr><td>230 (daily maximum)</td></tr>
<tr><td rowspan="2">5</td><td>150 (12 month average)</td></tr>
<tr><td>230 (daily maximum)</td></tr>
<tr><td rowspan="2">4B</td><td>117 (3 month average)</td></tr>
<tr><td>230 (daily maximum)</td></tr>
</table>
These are conditional LAs and shall apply only when chloride load reductions and/or chloride export projects are in operation by the Santa Clarita Valley Sanitation District according to the implementation section in Table 7-6.1 of Attachment A to Resolution No. R4-2008-012. If these conditions are not met, LAs are based on existing water quality objectives 100mg/L.
</td><td>April 6, 2010</td></tr>
</table>

<table>
<tr><th>Santa Clara River Nitrogen Compounds TMDL</th><th>Compliance Date</th></tr>
<tr><td>
<table>
<tr><th>Reach</th><th>NH_3-N + NO_2-N + NO_3-N (mg-N/L)</th></tr>
<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>
</table>
</td><td>March 23, 2004</td></tr>
</table>

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

Ventura River Estuary Trash TMDL	Compliance Date
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.	March 6, 2010

The Santa Clara River Estuary Toxaphene TMDL			Compliance Date
Reach	**Toxaphene**	**Toxaphene Fish Tissue Target**	October 7, 2010
Santa Clara River Estuary	0.0002 (µg/L)	6.1 (µg/kg)	