

ATTACHMENT M – TMDLS IN THE SANTA CLARA RIVER WATERSHED MANAGEMENT AREA

I. SANTA CLARA RIVER NITROGEN COMPOUNDS TMDL

- A. Permittees subject to the provisions below are identified in Attachment J, Tables J-3 and J-4.
- B. Permittees shall comply with the following water quality-based effluent limitations for discharges to Santa Clara River Reach 5 and Reach 3¹ ~~and their tributaries~~ as of the effective date of the Order:

Constituent	Effluent Limitations (mg/L)			
	Reach 5		Reach 3	
	30-day average	1-hour average	30-day average	1-hour average
Total Ammonia as Nitrogen (NH ₃ -N)	1.75	5.2	2.0	4.2
Nitrate plus Nitrite as Nitrogen (NO ₂ -N + NO ₃ -N)	6.8	-	8.1	-

II. TMDL FOR CHLORIDE IN THE SANTA CLARA RIVER, REACH 3

- A. Permittees subject to the provisions below are identified in Attachment J, Tables J-3 and J-4.
- B. Permittees shall comply with the following water quality-based effluent limitation for discharges to Santa Clara River Reach 3 and its tributaries as of the effective date of the Order:

Constituent	Effluent Limitation Daily Maximum (mg/L)
Chloride	10080

III. UPPER SANTA CLARA RIVER CHLORIDE TMDL

- A. Permittees subject to the provisions below are identified in Attachment J, Tables J-3 and J-4.
- B. Permittees shall comply with the following water quality-based effluent limitation for discharges to Santa Clara River Reaches 4B, 5, and 6 as of the effective date of the Order:

Constituent	Effluent Limitation Daily Maximum (mg/L)
Chloride	100

IV. SANTA CLARA RIVER ESTUARY AND REACHES 3, 5, 6, AND 7 INDICATOR BACTERIA TMDL

- A. Permittees subject to the provisions below are identified in Attachment J, Tables J-3 and J-4.
- B. ~~The daily maximum~~ Permittees shall comply with the following water quality-based effluent limitations for discharges to single sample objectives for Santa Clara River Estuary, and Santa

¹ The Basin Plan Chapter 7-9 Santa Clara River Nitrogen Compounds TMDL uses the U.S. EPA Santa Clara River reach designations. Reach designations here are per the corresponding reach designations in the Los Angeles Region’s Basin Plan Chapter 2. The U.S. EPA’s Santa Clara River Reach 7 corresponds to Santa Clara River Reach 5 (Blue Cut Gauging Station to West Pier Highway 99) in the Los Angeles Region’s Basin Plan Chapter 2. Likewise, U.S. EPA’s Santa Clara River Reach 3 corresponds to part of Santa Clara River Reach 3 (between Freeman Diversion Dam near Saticoy to Timber Canyon above Santa Paula Creek) in the Los Angeles Region’s Basin Plan Chapter 2.

~~Clara River Reaches 1, 2, the Santa Clara River Estuary, and to Santa Clara River Reaches 3, and above are listed below. Permittees shall comply with daily maximum limitations during dry weather no later than March 21, 2023, and during wet weather² no later than March 21, 2029. Permittees shall comply with geometric mean limitations no later than March 21, 2029:~~

Constituent	Daily Maximum Effluent Limitations Single Sample Objectives (MPN or cfu)	
	Santa Clara River Estuary and Santa Clara River Reaches 1 and 2	Santa Clara River Reaches 3 and above
	Daily Maximum	Daily Maximum
E. coli	--	235/100 mL
Total coliform	10,000/100 mL ³	--
Fecal coliform	400/100 mL	--
Enterococcus	104/100 mL	--

~~A. Receiving Water Limitations~~

~~4.C. Permittees shall comply with the following interim receiving water limitations and water quality-based effluent limitations⁴ for discharges to the Santa Clara River Estuary and Santa Clara River Reaches 1, 2, 3, and above during dry weather and wet weather⁵ as of the effective date of the Order⁶:~~

Sample Location	Time Period	Interim Annual Allowable Exceedance Days of the Single Sample Objectives ⁶		
		Daily Sampling	Weekly Sampling	3 Wet and 2 Dry weather events
Santa Clara River Estuary and Santa Clara River Reaches 1 and 2	Winter Dry Weather (November 1 to March 31)	49	7	1
	Summer Dry Weather (April 1 to October 31)	150	22	1
	Wet Weather (November 1 to October 31)	62	9	1
Santa Clara River Reaches 3 and above	Dry Weather (November 1 to October 31)	17	3	1
	Wet Weather (November 1 to October 31)	61	9	1

~~2.D. Permittees shall comply with the following final receiving water limitations and water quality-based effluent limitations⁷ for discharges to the Santa Clara River Estuary and Santa Clara River Reaches 1, 2, 3, and above during dry weather no later than March 21, 2023, and during wet weather no later than March 21, 2029:~~

~~² Wet weather is defined as a day with 0.1 inch of rain or greater and the three days following the rain event. Dry weather is defined as a non-wet day.~~

³ Total coliform density shall not exceed the daily maximum of 1,000/100 mL, if the ratio of fecal-to-total coliform exceeds 0.1.

⁴ The receiving water limitations are group-based and shared among all MS4 Permittees in the Order located within the sub-drainage area to each reach.

~~⁵ Wet weather is defined as a day with 0.1 inch of rain or greater and the three days following the rain event. Dry weather is defined as a non-wet day.~~

⁶ The Single Sample Objectives are equivalent to the daily maximum values listed in subpart B above.

⁷ The receiving water limitations are group-based and shared among all MS4 Permittees in the Order located within the sub-drainage area to each reach.

Location	Time Period	Final Annual Allowable Exceedance Days of the Single Sample Objectives ⁸	
		Daily Sampling	Weekly Sampling
Santa Clara River Estuary and Santa Clara River Reaches 1 and 2	Winter Dry Weather (November 1 to March 31)	12	2
	Summer Dry Weather (April 1 to October 31)	10	2
	Wet Weather (November 1 to October 31)	25	4
Santa Clara River Reaches 3 and above	Dry Weather (November 1 to October 31)	5	1
	Wet Weather (November 1 to October 31)	16	3

3.E. Permittees shall comply with the following receiving water limitations and water quality-based effluent limitations for discharges to the Santa Clara River Estuary and Santa Clara River Reaches 1, 2, 3, and above no later than March 21, 2029:

Constituent	Rolling 30-day Geometric Mean (MPN or cfu) ⁹	
	Santa Clara River Estuary and Santa Clara River Reaches 1 and 2	Santa Clara River Reaches 3 and above
E. coli	---	126/100 mL
Total coliform	1,000/100mL	---
Fecal coliform	200/100mL	---
Enterococcus	35/100mL	---

4.F. Permittees may propose wet-weather load-based compliance at MS4 outfalls. The plan shall include the following:

- a.1.** An estimate of existing load and the allowable load from MS4 outfalls to attain the allowable number of exceedance days in-stream; and
- b.2.** Technically defensible quantitative linkage to the allowable number of exceedance days; and
- c.3.** Quantitative estimates of the water quality benefits provided by the proposed implementation approach.

V. LAKE ELIZABETH, MUNZ LAKE, AND LAKE HUGHES TRASH TMDL (LAKE ELIZABETH ONLY)

- A.** Permittees subject to the provisions below are identified in Attachment J, Tables J-3 and J-4.
- B.** Permittees shall comply with water quality-based effluent limitations for trash per the provisions in Part IV.B.3 of the Order.
- C.** Permittees shall comply with the water quality-based effluent limitation of zero trash discharged to Lake Elizabeth and its shoreline as of the effective date of the Order and every water year thereafter.

⁸ The Single Sample Objectives are equivalent to the daily maximum values listed in subpart B above.

⁹ Geometric mean values shall be calculated on each sample day based on a statistically sufficient number of samples (generally not less than 5 samples equally spaced over a 30-day period) consistent with the REC-1 bacteria objectives.

VI. SANTA CLARA RIVER LAKES NUTRIENTS TMDL (LAKE ELIZABETH ONLY)

- A. Permittees subject to the provisions below are identified in Attachment J, Tables J-3 and J-4.
- B. Permittees¹⁰ shall comply with the following mass-based water quality-based effluent limitations¹¹ for discharges of total nitrogen and total phosphorus to Lake Elizabeth no later than June 27, 2032:

Effluent Limitations	
Total Phosphorus (lb/yr)	Total Nitrogen¹² (lb/yr)
436.7	2536.8

- C. Compliance with subpart B above shall be determined based on monitoring at all outfalls directly discharging to Lake Elizabeth at a minimum of quarterly per year. Permittees shall report flow of discharge from the outfall in conjunction with reporting monitoring data.

¹⁰ Responsible Permittees include County of Los Angeles and LACFCD.

¹¹ The water quality-based effluent limitations are group-based and shared among all MS4 Permittees in the Order located within the sub-drainage area to Lake Elizabeth.

¹² Total Nitrogen is the sum of TKN plus Nitrate-N plus Nitrite-N.