

Attachment A to Resolution R4-2008-0xx
Basin Plan Amendment Incorporating Conditional Site-Specific Objectives for Chloride in Upper Santa Clara River Watershed

The following language will be added to Chapter 3, Water Quality Objectives of the Basin Plan, under “Mineral Quality”:

Add table after Table 3-8.

Table 3-8a. Conditional Site Specific Objectives for Santa Clara River Surface Waters

WATERSHED/STREAM REACH	Chloride (mg/L)
Santa Clara River Watershed:	
Between Bouquet Canyon Road Bridge and West Pier Highway 99	150 (<u>Annual-12-month</u> average)
Between West Pier Highway 99 and Blue Cut gaging station	150 (<u>Annual-12-month</u> average)
Between Blue Cut gaging station and confluence of Piru Creek	117/130 ^a (3-month average) ^b

- a. The conditional site specific objective of 130 mg/L applies only if the following conditions and implementation requirements are met:
1. Water supply chloride concentrations measured in Castaic Lake are ≥ 80 mg/L.
 2. The Santa Clarita Valley Sanitation District (SCVSD) shall provide supplemental water to salt-sensitive agricultural uses that are irrigated with surface water during periods when Reach 4B (between Blue Cut gaging station and confluence of Piru Creek) surface water exceeds 117 mg/L.
 3. Beginning-By May 4, 2020~~16~~, the 10-year cumulative net chloride loading above 117 mg/L (CNCI₁₁₇)ⁱ to Reach 4B of the Santa Clara River (SCR), calculated annually, from the SCVSD Water Reclamation Plants (WRPs) is shall be zero or less, ~~where:~~

$${}^i\text{CNCI}_{117} = \text{Cl}_{(\text{Above } 117)} - \text{Cl}_{(\text{Below } 117)} - \text{Cl}_{(\text{Export Ews})}$$

Where:

$$\text{Cl}_{(\text{Above } 117)} = [\text{WRP Cl Load}^1 / \text{Reach 4B Cl Load}^2] * [\text{Reach 4B Cl Load}_{>117}^3]$$

$$\text{Cl}_{(\text{Below } 117)} = [\text{WRP Cl Load}^1 / \text{Reach 4B Cl Load}^2] * [\text{Reach 4B Cl Load}_{\leq 117}^4]$$

$$\text{Cl}_{(\text{Export Ews})} = \text{Cl Load Removed by Extraction Wells}$$

¹ WRP Cl Load is determined as the monthly average chloride (Cl) concentration multiplied by the monthly average flow measured at the Valencia WRP.

² Reach 4B Cl Load is determined as the monthly average Cl concentration at SCVSD Receiving Water Station RF multiplied by the monthly average flow measured at USGS Gauging Station 11109000 (Las Brisas Bridge).

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³ Reach 4B Cl Load_{>117} means the calculated Cl load to Reach 4B when monthly average Cl concentration in Reach 4B is above 117 mg/L.

⁴ Reach 4B Cl Load_{≤117} means the calculated Cl load to Reach 4B when monthly average Cl concentration in Reach 4B is below or equal to 117 mg/L.

4. The chief engineer of the SCVSD signs under penalty of perjury and submits to the Regional Board a letter documenting the fulfillment of conditions 1, 2, and 3.

b. The averaging period for the critical condition SSO of 130 mg/L may be reconsidered based on results of chloride trend monitoring after the alternative water resources management (AWRM) system is applied.

The conditional site specific objectives for chloride in the surface water between Bouquet Canyon Road bridge and West Pier Highway 99, between West Pier Highway 99 and Blue Cut gaging station, and between Blue Cut gaging station and confluence of Piru Creek shall apply and supersede the existing water quality objectives in Table 3-8 only when chloride load reductions and/or chloride export projects are in operation by the SCVSD according to the implementation section in Table 7.6-1 of Chapter 7.

Add table after Table 3-10.

Table 3-10a. Conditional Site Specific Objectives for Selected Constituents in Regional Groundwaters

DWR Basin No.	BASIN	Chloride (mg/L)
4-4	Ventura Coastal Lower area east of Piru Creek ¹	150 (rolling <u>Annual 12-month</u> average)
4-4.07	Eastern Santa Clara Santa Clara—Bouquet & San Francisquito Canyons <u>Castaic Valley</u>	150 (rolling <u>Annual 12-month</u> average) <u>150 (rolling 12-month</u> average)

1. This objective only applies to the San Pedro formation. Existing objective of 200 mg/L applies to shallow alluvium layer above San Pedro formation.

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The conditional site specific objectives for chloride in the groundwater in Santa Clara--
| Bouquet & San Francisquito Canyons, [Castaic valley](#), and the lower area east of Piru
Creek (San Pedro Formation) shall apply and supersede the existing regional
groundwater quality objectives only when chloride load reductions and/or chloride export
projects are in operation by the SCVSD according to the implementation section in Table
7.6-1 of Chapter 7.