ATTACHMENT 1
BASIN PLAN AMENDMENT INCORPORATING SITE-SPECIFIC OBJECTIVES FOR AMMONIA

The following language will be revised / added to Chapter 3, Water Quality Objectives of the Basin Plan, under "Ammonia":

Delete existing paragraph and replace with new paragraph:
~~For water bodies where Ammonia Water Effects Ratios (WERs) have been fully approved through the Basin Plan Amendment process, the objective will be multiplied by the WER to determine the site-specific objective.~~

The water quality objectives for ammonia in freshwater may be revised to reflect local waterbody characteristics using one or more of US EPA's procedures for deriving site-specific objectives (SSOs), which include the water-effect ratio (WER) procedure, recalculation procedure, and resident species procedure. In order to establish SSOs for a waterbody, a study must be conducted that is consistent with US EPA guidelines on deriving aquatic life criteria and SSOs, and the resultant SSOs must be fully approved through the Basin Plan amendment process.

Add immediately before "IMPLEMENTATION":

For the following waterbodies, the 30-day average water quality objective for ammonia shall be calculated as set forth below. In addition, the highest four-day average within the 30-day period shall not exceed 2.5 times the 30-day average objective shown in Table 3-X "Site-specific 30-day Average Objectives for Ammonia by Waterbody Reach". The regional one-hour average objective for ammonia-N for freshwaters, specified in Table 3-1, remains the applicable one-hour objective for these waterbodies.

Notwithstanding the provisions below, regulatory actions, including but not limited to TMDLs and Waste Discharge Requirements, to achieve applicable site-specific objectives must ensure that downstream standards will also be achieved and downstream beneficial uses will also be protected as far as the discharges' impacts may be experienced.

As described in "Implementation", "3. Selection of 30-day Average Objective – Early Life Stage Provision", below, these waterbodies are subject to site-specific ELS provisions as set forth in Table 3-X "Site-specific 30-day Average Objectives for Ammonia by Waterbody Reach", which incorporate seasonality of early life stages of fish.

Where deemed necessary, additional receiving water monitoring shall be required of dischargers subject to SSOs to ensure that the SSOs are as protective of beneficial uses as the regional objectives are intended to be and downstream standards are achieved. This additional monitoring shall be required through the discharger's NPDES permit monitoring and reporting program or other Board required monitoring programs. If monitoring indicates toxicity due to ammonia or a change in the waterbody that could impact the calculation or application of the SSOs, including either its chemical characteristics or the aquatic species present, including early life stages of fish, the Regional Board may reconsider the SSOs.

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Table 3-X. Site-Specific 30-day Average Objectives for Ammonia by Waterbody Reach

WATERBODY	30-DAY AVERAGE OBJECTIVE
Los Angeles River, Reach 5 (Sepulveda Basin)	**ELS Present (from April 1 – September 30)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * MIN(2.85, 2.85 * 10^{0.028*(25-T)})$ **ELS Absent (from October 1 – March 31)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 2.85 * 10^{0.028*(25-Max(T,7))}$
Los Angeles River, Reach 4 (Sepulveda Dam to Riverside Drive)	**ELS Absent (year round)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 2.85 * 10^{0.028*(25-Max(T,7))}$
Los Angeles River, Reach 3 (Riverside Drive to Figueroa Street)	**ELS Present (from April 1 – September 30)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * MIN(2.85, 2.85 * 10^{0.028*(25-T)})$ **ELS Absent (from October 1 – March 31)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 2.85 * 10^{0.028*(25-Max(T,7))}$
Burbank Western Wash (Burbank Water Reclamation Plant to confluence with LA River)	**ELS Absent (year round)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.92 * 2.03 * 10^{0.028*(25-Max(T,7))}$
San Gabriel River, Reaches 2 and 3 (Confluence with San Jose Creek to Firestone Blvd.) (including all San Jose Creek WRP discharges)	**ELS Present (from April 1 – September 30)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.89 * MIN(2.85, 2.37 * 10^{0.028*(25-T)})$ **ELS Absent (from October 1 – March 31)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.89 * 2.37 * 10^{0.028*(25-Max(T,7))}$
San Gabriel River, Reach 1 (Firestone Blvd. to Willow St. or start of estuary)	**ELS Absent (year round)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 3.34 * 10^{0.028*(25-Max(T,7))}$

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WATERBODY	30-DAY AVERAGE OBJECTIVE
Santa Clara River, Reach 6 (Bouquet Canyon Rd. Bridge to West Pier Hwy 99)	**ELS Present (from February 1 – September 30)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * MIN(2.85, 3.24 * 10^{0.028*(25-T)})$ **ELS Absent (from October 1 – January 31)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 3.24 * 10^{0.028*(25-Max(T,7))}$
Santa Clara River, Reach 5 (West Pier Hwy 99 to Blue Cut gaging station)	**ELS Present (from February 1 – September 30)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * MIN(2.85, 3.20 * 10^{0.028*(25-T)})$ **ELS Absent (from October 1 – January 31)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 3.20 * 10^{0.028*(25-Max(T,7))}$
San Jose Creek (Pomona WRP to confluence with San Gabriel River)	**ELS Present (from April 1 – September 30)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.92 * MIN(2.85, 2.02 * 10^{0.028*(25-T)})$ **ELS Absent (from October 1 – March 31)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.92 * 2.02 * 10^{0.028*(25-Max(T,7))}$
Rio Hondo (Upstream of Whittier Narrows Dam)	**ELS Present (from April 1 – September 30)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * MIN(2.85, 3.04 * 10^{0.028*(25-T)})$ **ELS Absent (from October 1 – March 31)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 3.04 * 10^{0.028*(25-Max(T,7))}$
Coyote Creek (Long Beach WRP to confluence with San Gabriel River)	**ELS Absent (year round)** $CCC = \left(\frac{0.0676}{1+10^{7.688-pH}} + \frac{2.912}{1+10^{pH-7.688}} \right) * 0.854 * 2.96 * 10^{0.028*(25-Max(T,7))}$