

ATTACHMENT 1

Proposed Basin Plan Amendments (“clean” version)

[NOTE: The proposed amendments consist of the following: Revise Compliance Schedule for Fecal Coliform TMDL for Shellfish Harvesting (SHEL) in Newport Bay; Add Certain Waters to Table 3-1 and Designate Beneficial uses for those Waters; Revise SHEL Beneficial Use Definition; Revise Table 4-1 to include Added Waters; Add Antidegradation Targets for REC2 Only Waters; Add Introductory Narrative for Chapter 6 Total Maximum Daily Loads; Add Fecal Indicator Bacteria Footnote to Chapters 4 and 5.

These amendments are proposed to be incorporated in the Basin Plan in Chapter 3, Beneficial Uses, Chapter 4, Water Quality Objectives, Chapter 5 Implementation, and new Chapter 6 Total Maximum Daily Loads (TMDLs). If the Basin Plan amendments are approved, corresponding changes will be made as necessary to the Table of Contents, the List of Tables, page numbers, and page headers in the Plan. Formatting changes, including page numbers, page headers and table and figure identifiers may be modified for the purposes of possible re-publication of the Basin Plan. However, no substantive changes to the text, tables or figures would occur absent a Basin Plan amendment].

Attachment 2 shows the proposed amendments using underline/strike-out format.

CHANGES TO CHAPTER 3 – BENEFICIAL USES DEFINITIONS, SHELLFISH HARVESTING (SHEL):

Amend CHAPTER 3 – BENEFICIAL USE DEFINITIONS

Shellfish Harvesting (SHEL) waters support habitats necessary for filter feeding shellfish (e.g., clams, oysters, and mussels) collected for human consumption, commercial, or sport purposes.

Amend CHAPTER 3 – TABLE 3-1 BENEFICIAL USES (with the addition of certain waters, changes in the format of this table occurred (waters already listed were moved to subsequent pages). Therefore, as a matter of clarity, the surface water portions of this Table are reproduced below in their entirety, including the changes delineated in Attachment 2)

Table 3-1 BENEFICIAL USES

OCEAN WATERS	BENEFICIAL USE																			Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	MAR	SHEL	EST	Primary	Secondary
NEARSHORE ZONE*																						
San Gabriel River to Poppy Street in Corona del Mar	+		X			X		X	X	X					X	X	X	X	X		801.11	
Poppy Street to Southeast Regional Boundary	+					X		X	X	X				X	X	X	X	X	X		801.11	
OFFSHORE ZONE																						
Waters Between Nearshore Zone and Limit of State Waters	+		X			X		X	X	X					X	X	X	X				

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excepted from MUN (see text)

* Defined by Ocean Plan Chapter II B-1.: "Within a zone bounded by shoreline and a distance of 1000 feet from shoreline or the 30-foot depth contour, whichever is further from shoreline..."

Table 3-1 BENEFICIAL USES - Continued

BAYS, ESTUARIES, AND TIDAL PRISMS	BENEFICIAL USE																		Hydrologic Unit			
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	MAR	SHEL	EST	Primary	Secondary
Los Cerritos Wetlands	+							X	X					X	X	X	X	X		X	801.11	
Anaheim Bay – Outer Bay	+					X		X	X					X	X	X	X	X			801.11	
Anaheim Bay – Seal Beach National Wildlife Refuge	+							X ¹	X					X	X	X	X	X		X	801.11	
Sunset Bay – Huntington Harbor	+					X		X	X	X					X	X	X	X			801.11	
Bolsa Bay	+							X	X	X				X	X	X	X	X	X		801.11	
Bolsa Chica Ecological Reserve	+							X	X					X	X	X	X	X		X	801.11	
Lower Newport Bay	+					X		X	X	X					X	X	X	X	X		801.11	
Upper Newport Bay	+							X	X	X				X	X	X	X	X	X	X	801.11	

X Existing or Potential Beneficial Use

I Intermittent Beneficial Use

+ Exempted from MUN (see text)

¹ Access prohibited per agency with jurisdiction

Table 3-1 BENEFICIAL USES - Continued

BAYS, ESTUARIES, AND TIDAL PRISMS	BENEFICIAL USE																		Hydrologic Unit			
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	MAR	SHEL	EST	Primary	Secondary
Santa Ana River Salt Marsh	+							X	X					X	X	X		X		X	801.11	
Huntington Beach Wetlands	+							X	X					X	X	X	X	X		X	801.11	
Tidal Prism of Santa Ana River (to within 1000' of Victoria Street) and Newport Slough	+							X	X	X					X	X		X		X	801.11	
Tidal Prism of San Gabriel River - River Mouth to Marina Drive	+		X					X	X	X					X	X		X	X	X	845.61	
Tidal Prism of Santa Ana-Delhi Channel – Bicycle Bridge at University Dr. at Upper Newport Bay to 1036 ft. upstream	+							u	X						X	X		X		X	801.11	
Tidal Prism of Greenville-Banning Channel – Santa Ana River Confluence to Inflatable diversion dam^	+							u	X						X	X		X		X	801.11	
Tidal Prisms of Flood Control Channels Discharging to Coastal or Bay Waters	+							X	X	X					X			X		X	801.11	

X Existing or Potential Beneficial Use

I Intermittent Beneficial Use

+ Excepted from MUN (see text)

^ The diversion dam is 0.23 mile downstream of the confluence with the Fairview Channel.

¹ Access prohibited per agency with jurisdiction

u REC 1 and/or REC 2 are not attainable uses as determined by UAA (See Table 3-2 and Chapter 3, Recreation Beneficial Uses)

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
LOWER SANTA ANA RIVER BASIN																				
Santa Ana River																				
Reach 1 – Tidal Prism to 17 th Street in Santa Ana	+							X ²	X		I				I				801.11	
Reach 2 – 17 th Street in Santa Ana to Prado Dam	+	X			X			X	X		X				X	X	X*		801.11	801.12
Aliso Creek	X				X			X	X		X				X	X			845.63	
Carbon Canyon Creek	X				X			X	X		X				X	X			845.63	
Santiago Creek Drainage																				
Santiago Creek																				
Reach 1 – below Irvine Lake	X				X			X ²	X		X				X				801.12	801.11
Reach 2 – Irvine Lake (see Lakes, pg. 3-xx)																				
Reach 3 – Irvine Lake to Modjeska Canyon	I				I			I	I		I				I	X			801.12	
Reach 4 – in Modjeska Canyon	X				X			X	X		X				X	X			801.12	
Silverado Creek	X				X			X	X		X				X	X			801.12	

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excepted from MUN (see text)

² Access prohibited in all or part per agency with jurisdiction
 * SPWN only from Prado Dam to 0.6 mile downstream of the State Route 90 (Imperial Highway) Bridge

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Black Star Creek	I				I			I	I		I				I	X			801.12	
Ladd Creek	I				I			I	I		I				I	X			801.12	
San Diego Creek Drainage																				
San Diego Creek																				
Reach 1 – below Jeffrey Road	+							X ²	X		X				X	X		X*	801.11	
Reach 2 – above Jeffrey Road to Headwaters	+				I			I	I		I				I	X			801.11	
Other Tributaries: Bonita Creek, Serrano Creek, Peters Canyon Wash, Hicks Canyon Wash, Bee Canyon Wash, Borrego Canyon Wash, Agua Chinon Wash, Laguna Canyon Wash, Rattlesnake Canyon Wash, Sand Canyon Wash, and other Tributaries to these Creeks	+				I			I	I		I				I	X			801.11	

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excerpted from MUN (see text)

² Access prohibited in all or part per agency with jurisdiction
 * The Estuarine Reach is from just upstream of the Macarthur Boulevard Bridge to the Bay

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Newport Bay Drainages																				
Santa Ana-Delhi Channel																				
Reach 1 – upper boundary of Tidal Prism to intersection of Sunflower Ave./Flower St.	+							u	X		X				X	X			801.10	
Reach 2 – Sunflower Ave./Flower St. intersection to Warner Avenue	+							u	X		X				X				801.10	
Big Canyon Creek	+							X	X		X				X	X			801.10	
Newport Coast Drainages																				
Morning Canyon Creek	+							X	X		X				X				801.11	
Muddy Canyon Creek	+							I	X		I				X	X			801.11	
Los Trancos Creek	+							I	X		I				X				801.11	
Buck Gully Creek	+							X	X		X				X				801.11	
Greenville Banning Channel																				
Reach 1-Inflatable Diversion Dam to California Street	+							u	u		X				X				801.10	

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excepted from MUN (see text)

u REC 1 and/or REC 2 are not attainable uses as determined by UAA (See Table 3-2 and Chapter 3, Recreation Beneficial Uses)

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
San Gabriel River Drainages																				
Coyote Creek (within Santa Ana Regional Boundary)	X							X	X		X				X	X			845.61	
Carbon Creek	I				X			I	X		I				X				845.61	
Fullerton Creek	+							I	X		I				X				845.61	
Brea Creek	I							I	X		I				X	X			845.61	
UPPER SANTA RIVER BASIN																				
Santa Ana River																				
Reach 3 – Prado Dam to Mission Blvd. in Riverside	+	X			X			X	X		X				X	X	X		801.21	801.21, 801.25
Reach 4 – Mission Blvd. in Riverside to San Jacinto Fault in San Bernardino	+				X			X ^u	X		X				X	X	X		801.27	801.44

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excepted from MUN (see text)

u REC 1 and/or REC 2 are not attainable uses as determined by UAA (See Table 3-2 and Chapter 3, Recreation Beneficial Uses)

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Reach 5 – San Jacinto Fault in Bernardino to Seven Oaks Dam ^t	X*	X			X			X ³	X		X				X	X			801.52	801.57
Reach 6 – Seven Oaks Dam to Headwaters (see also Individual Tributary Streams)	X	X			X		X	X	X				X		X	X	X		801.72	
San Bernardino Mountain Streams																				
Mill Creek Drainage																				
Mill Creek																				
Reach 1 – Confluence with Santa Ana River to Bridge Crossing Route 38 at Upper Powerhouse	I	I			I			I	I				I		I	X			801.58	
Reach 2 – Bridge Crossing Route 38 at Upper Powerhouse to Headwaters	X	X			X		X	X	X				X		X	X			801.58	
Mountain Home Creek	X				X		X	X	X				X		X		X		801.58	
Mountain Home Creek, East Fork	X				X	X	X	X	X				X		X		X		801.70	
Monkeyface Creek	X				X			X	X				X		X				801.70	
Alger Creek	X				X			X	X				X		X				801.70	

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excerpted from MUN (see text)

* MUN applies upstream of Orange Avenue (Redlands); downstream, water is excerpted from MUN
^t Reach 5 uses are intermittent upstream of Waterman Avenue
³ Access prohibited in some portions per agency with jurisdiction

Table 3-1 BENEFICIAL USES – Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Falls Creek	X				X		X	X	X				X		X		X		801.70	
Vivian Creek	X				X			X	X				X		X				801.70	
High Creek	X				X			X	X				X		X				801.70	
Other Tributaries: Lost, Oak Cove, Green, Skinner, Momyer, Glen Martin, Camp, Hatchery, Rattlesnake, Slide, Snow, Bridal Veil, and Oak Creeks and other Tributaries to these Creeks	I				I			I	I				I		I				801.71	
Bear Creek Drainage																				
Bear Creek	X	X			X		X	X	X				X		X	X	X		801.71	
Siberia Creek	X				X			X	X				X		X		X		801.71	
Slide Creek	I				I			I	I				I		I				801.71	
Johnson Creek	I				I			I	I				I		I				801.71	
All other Tributaries to these Creeks	I				I			I	I				I		I				801.71	
Big Bear Lake (see Lakes, pg. 3-41)																				

- X Existing or Potential Beneficial Use
- I Intermittent Beneficial Use
- + Excepted from MUN (see text)

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Big Bear Lake Tributaries																				
North Creek	X				X			X	X				X		X		X		801.71	
Metcalf Creek	X				X			X	X				X		X	X	X		801.71	
Grout Creek	X				X			X	X				X		X		X		801.71	
Rathbone (Rathbun) Creek	X				X			X	X				X		X				801.71	
Meadow Creek	X				X			X	X				X		X	X			801.71	
Summit Creek	I				I			I	I				I		I	X			801.71	
Knickerbocker Creek																				
Reach 1 – concrete channel, the Lake to Village Dr.	I				I			I	I				I		I				801.71	
Reach 2 – natural channel, Village Dr. to headwater	I				I			I	I				I		I				801.71	
Other Tributaries to Big Bear Lake: Minnelusa, Poligue, and Red Ant Creeks and other Tributaries to these Creeks	I				I			I	I				I		I	X			801.71	
Baldwin Lake (see Lakes, pg. 3-41)																				

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use

Table 3-1 BENEFICIAL USES – Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																Hydrologic Unit			
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Baldwin Lake Drainage																				
Shay Creek	X				X			X	X				X		X	X	X		801.73	
Other Tributaries to Baldwin Lake: Sawmill, Green, and Caribou Canyons and other Tributaries to these Creeks	I				I			I	I				I		I	X			801.73	
Other Streams Draining to Santa Ana River (Mountain Reaches [‡])																				
Cajon Canyon Creek	X				X			X	X				X		X	X	X		801.52	801.51
City Creek	X	X			X			X	X				X		X	X	X		801.57	
Devil Canyon Creek	X				X			X	X				X		X	X			801.57	
East Twin and Strawberry Creeks	X	X			X			X	X				X		X		X		801.57	
Waterman Canyon Creek	X				X			X	X				X		X				801.57	
Fish Creek	X				X			X	X				X		X		X		801.57	
Forsee Creek	X				X			X	X				X		X		X		801.72	
Plunge Creek	X	X			X			X	X				X		X	X	X		801.72	
Barton Creek	X	X			X			X	X				X		X				801.72	
Bailey Canyon Creek	I				I			I	I				I		I	X				

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use

[‡] The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino Bernardino or San Gabriel Mountains

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Kimbark Canyon, East Fork Kimbark Canyon, Ames Canyon and West Fork Cable Canyon Creeks	X				X			X	X		X		X		X	X*			801.52	
Valley Reaches [‡] of Above Streams, except Cajon Canyon Creek	I				I			I	I		I				I	X*			801.52	
Cajon Canyon Creek, Valley Reach	I				I			I	X		I				X	X			801.52	
Other Tributaries (Mountain Reaches [‡]): Alder, Badger Canyon, Bledsoe Gulch, Borea Canyon, Breakneck, Cable Canyon, Cienaga Seca, Cold, Converse, Coon, Crystal, Deer, Elder, Fredalba, Frog, Government, Hamilton, Heart Bar, Hemlock, Keller, Kilpecker, Little Mill, Little Sand Canyon, Lost, Meyer Canyon, Mile, Monroe Canyon, Oak, Rattlesnake, Round Cienaga, Sand, Schneider, Staircase, Warm Springs Canyon, and Wild Horse Creeks and other Tributaries to these Creeks	I				I			I	I				I		I	X*			801.72	801.71, 801.57

X Existing or Potential Beneficial Use

I Intermittent Beneficial Use

+ Excluded from MUN (see text)

[‡] The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

³ Access prohibited in some portions per agency with jurisdiction

* The RARE beneficial use designation applies only to the Mountain reaches of West Fork Cable Canyon and Badger Canyon Creeks and the Valley reach of Devil Canyon Creek.

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Warm Creek	+							X	X		X				X				801.52	
San Gabriel Mountain Streams (Mountain Reaches [‡])																				
San Antonio Creek	X	X	X	X	X		X	X	X				X		X				801.23	
Lytle Creek (South, Middle, and North Forks) and Coldwater Canyon Creek	X	X	X	X	X		X	X	X				X		X	X	X		801.41	801.42, 801.52, 801.59
Day Canyon Creek	X			X	X			X	X				X		X				801.21	
East Etiwanda Creek	X			X	X			X	X				X		X	X			801.21	
Valley Reaches [‡] of Above Streams, except Lytle Creek	I				I			I	I		I				I				801.21	
Lytle Creek, Valley Reach	I				I			I	X		I				X	X			801.21	
Cucamonga Creek																				
Reach 1 – Confluence with Mill Creek to 23 rd St. in Upland	+				X			u ³	X			X			X				801.21	
Reach 2 (Mountain Reach [‡]) - 23 rd St. In Upland to headwaters	X		X	X	X		X	X	X				X		X	X	X		801.24	

X Existing or Potential Beneficial Use
I Intermittent Beneficial Use
+ Exceeded from MUN (see text)

[‡] The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains
^u REC 1 and/or REC 2 are not attainable as determined by a UAA. (See Table 3-2 and Chapter 3, Recreation Beneficial Uses)
³ Access prohibited in some portions per agency with jurisdiction

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Mill Creek (Prado Area)	+							X	X		X				X	X			801.25	
Other Tributaries (Mountain Reaches †): San Sevaine, Deer, Duncan Canyon, Henderson Canyon, Bull, Fan, Demens, Thorpe, Angalls, Telegraph Canyon, Stoddard Canyon, Icehouse Canyon, Cascade Canyon, Cedar, Falling Rock, Kerkhoff, and Cherry Creeks and other Tributaries to these Creeks																			801.21	801.23
Valley Reaches‡ of Above Streams																			801.21	801.43
San Timoteo Area Streams																				
San Timoteo Creek																				
Reach 1A – Santa Ana River Confluence to Barton Road	+							³								X			801.52	
Reach 1B – Barton Road to Gage at San Timoteo Canyon Rd.	+							³								X			801.52	

X Existing or Potential Beneficial Use
 | Intermittent Beneficial Use
 + Exceeded from MUN (see text)

‡ The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains
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Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Reach 2 – Gage at San Timoteo Creek to confluence with Yucaipa Creek	+				X			X	X		X				X	X			801.61	
Reach 3 – Confluence with Yucaipa Creek to confluence with little San Gorgonio and Noble Creeks (Headwaters of San Timoteo Creek)	+				X			X	X		X				X	X			801.61	
Oak Glen, Potato Canyon, and Birch Creeks	X				X			X	X		X				X				801.67	
Little San Gorgonio Creek	X				X			X	X				X		X				801.69	801.62, 801.63
Yucaipa Creek	I				I			I	I		I				I	X			801.67	801.61, 801.62, 801.64
Other Tributaries to these Creeks-Valley Reaches [‡]	I				I			I	I		I				I				801.62	801.52, 801.53
Other Tributaries to these Creeks-Mountain Reaches [‡]	I				I			I	I				I		I				801.69	801.67
Anza Park Drain	X							X	X		X				X	X	X		801.27	
Goldenstar Creek	X							X	X		X				X	X	X		801.27	
Hole Lake Creek	+							X	X		X				X				801.27	
Sunnyslope Channel	X							X	X		X				X	X	X		801.27	

X Existing or Potential Beneficial Use

I Intermittent Beneficial Use

+ Exceeded from MUN (see text)

[‡] The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

³ Access prohibited in some portions per agency with jurisdiction

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Tequesquite Arroyo (Sycamore Creek)	+				X			X	X		X				X	X	X		801.27	
Prado Area Streams																				
Chino Creek																				
Reach 1A – Santa Ana River confluence to downstream of confluence with Mill Creek (Prado Area)	+							X	X		X				X	X			801.21	
Reach 1B – Confluence with Mill Creek (Prado Area) to beginning of concrete-lined channel south of Los Serranos Rd.***	+							X	X		X				X	X			801.21	
Reach 2 – Beginning of concrete-lined channel south of Serranos Rd. to confluence with San Antonio Creek	+				X			X ³	X			X			X				801.21	
Temescal Creek																				
Reach 1a – Lincoln Ave. to Arlington Channel confluence	+							u ³	X		X				X				801.25	

X Existing or Potential Beneficial Use

I Intermittent Beneficial Use

+ Excepted from MUN (see text)

*** The confluence of Mill Creek is in Chino Creek, Reach 1B

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																Hydrologic Unit			
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Reach 1b – Arlington Channel confluence to 1400 ft. upstream of Magnolia Ave.	+							u ³	X		X				X				801.25	
Reach 2 – 1400 ft. upstream of Magnolia Ave. to Lee Lake	+	X	X		X			X	X		X				X	X			801.25	
Reach 3 – Lee Lake (see Lakes, Page 3-41)																				
Reach 4 – Lee Lake to Mid-Section Line of Section 17 (downstream end of freeway cut)	+	X			X			X	X		X				X	X			801.34	
Reach 5 – Mid-section line of Section 17 (downstream end of freeway cut) to Elsinore Ground-water Subbasin Boundary	+	X			X			X	X		X				X	X			801.35	
Reach 6 – Elsinore Groundwater Subbasin Boundary to Lake Elsinore Outlet	+				I			I	I		I				I				801.35	

X Existing or Potential Beneficial Use

I Intermittent Beneficial Use

+ Excepted from MUN (see text)

³ Access prohibited in some portions per agency with jurisdiction

u REC 1 and/or REC 2 are not attainable uses as determined by UAA (See Table 3-2 and Chapter 3, Recreation Beneficial Uses)

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Coldwater Canyon Creek	X	X			X			X	X		X				X		X		801.32	
Bedford Canyon Creek	+				I			I	I		I				I	X			801.32	
Dawson Canyon Creek	I				I			I	I		I				I				801.32	
Other Tributaries to these Creeks	I				I			I	I		I				I				801.32	
SAN JACINTO RIVER BASIN																				
San Jacinto River																				
Reach 1 – Lake Elsinore to Canyon Lake	I	I			I			I	I		I				I	X			801.32	802.31
Reach 2 – Canyon Lake (see Lakes Pg. 3-42)																				
Reach 3 – Canyon Lake to Nuevo Road	+	I			I			I	I		I				I	X			802.11	
Reach 4 – Nuevo Road to North-South Mid-Section Line, T4S/R 1W-S8	+	I			I			I	I		I				I	X			802.21	802.21
Reach 5 – North-South Mid-Section Line, T4S/R1 W-S8, to Confluence With Poppet Creek	+	I			I			I	I		I				I	X			802.21	

X Existing or Potential Beneficial Use

I Intermittent Beneficial Use

+ Excepted from MUN (see text)

Table 3-1 BENEFICIAL USES - Continued

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Reach 6 – Poppet Creek to Cranston Bridge	I	I			I			I	I		I				I	X			802.21	
Reach 7 – Cranston Bridge to Lake Hemet	X	X			X			X	X				X		X	X	X		801.21	
Bautista Creek – Headwaters to Debris Dam	X	X			X			X	X				X		X	X			802.21	802.23
Strawberry Creek and San Jacinto River, North Fork	X	X			X			X	X				X		X	X	X		801.21	
Fuller Mill Creek	X	X			X			X	X				X		X	X			802.22	
Stone Creek	X	X			X			X	X				X		X	X			802.21	
Indian Creek	X				X			X	X				X		X	X	X		802.21	
Other Tributaries: Logan, Black Mountain, Juaro Canyon, Herkey, Poppet, and Potrero Creeks and other Tributaries to these Creeks		I			I			I	I		I				I	X*			802.21	802.22
Salt Creek	+							I	I		I				I				802.12	
Goodhart Canyon, St. John's Canyon, and Cactus Valley Creeks	I	I						I	I		I				X				802.15	
Perris Valley Channel	+							I	X		I				X	X			802.11	

X Existing or Potential Beneficial Use
I Intermittent Beneficial Use
+ Excepted from MUN (see text)

*The RARE beneficial use designation applies to Poppet Creek and Potrero Creek only.

Table 3-1 BENEFICIAL USES - Continued

LAKES AND RESERVOIRS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
UPPER SANTA ANA RIVER BASIN																				
Baldwin Lake	+							I	I		I		I	I	I	I			801.73	
Big Bear Lake	X	X			X			X	X	X	X		X		X	X			801.71	
Erwin Lake	X							X	X				X	X	X	X			801.73	
Evans, Lake	+							X	X	X	X		X		X				801.27	
Jenks Lake	X	X			X			X	X	X			X		X				801.72	
Lee Lake	+	X	X		X			X	X	X	X				X				802.34	
Mathews, Lake	X	X	X	X	X			X ⁴	X		X				X	X			802.33	
Mockingbird Reservoir	+	X						X ⁴	X		X				X				802.26	
Norconian, Lake	+							X	X		X				X				802.25	
Prado Park Lake	+							X	X	X	X				X				801.21	
LOWER SANTA ANA RIVER BASIN																				
Anaheim Lake	+				X			X	X		X				X				801.11	
Irvine Lake (Santiago Reservoir)	X	X						X	X		X		X		X	X			801.12	
Peters Canyon, Rattlesnake, Sand Canyon, and Siphon Reservoirs	+	X						X ⁴	X		X				X	X			801.11	

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excepted from MUN (see text)

⁴ Access prohibited per agency/company with jurisdiction

Table 3-1 BENEFICIAL USES - Continued

LAKES AND RESERVOIRS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
SAN JACINTO RIVER BASIN																				
Canyon Lake (Railroad Canyon Reservoir)	X	X			X			X	X	X	X				X				802.11	802.12
Elsinore, Lake	+							X	X	X	X				X	X			802.31	
Fulmor, Lake	X	X						X	X		X		X		X				802.21	
Hemet, Lake	X	X			X		X	X	X	X	X		X		X	X	X		802.22	
Mystic Lake	I							I	I		I			X	X	X			802.11	
Perris, Lake	X	X	X	X	X			X	X	X	X		X		X	X			802.11	

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excepted from MUN (see text)

Table 3-1 BENEFICIAL USES - Continued

WETLANDS (INLAND)	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
San Joaquin Freshwater Marsh**	+							X	X		X			X	X	X			801.11	801.14
Shay Meadows	I							I	I				I		I	X	X		801.73	
Stanfield Marsh**	X							X	X				X		X	X			801.71	
Prado Basin Management Zone@	+							X	X		X				X	X			802.21	
San Jacinto Wildlife Preserve**	+							X	X		X			X	X	X			802.21	802.14
Glen Helen	X							X	X		X				X				801.59	
Mill/Cucamonga Creek Wetlands	+							X	X		X				X	X			801.21	
Gunnerson Pond	+							X	X		X				X	X			801.35	

X Existing or Potential Beneficial Use
 I Intermittent Beneficial Use
 + Excepted from MUN (see text)

** This is a created wetland as defined in the wetland discussion
 @ The Prado Basin Management Zone includes the Prado Flood Control Basin, a created wetland as defined in the Basin Plan (see Chapter 3, pages 3-4 through 3-7)

CHANGES TO CHAPTER 4 - WATER QUALITY OBJECTIVES

Amend CHAPTER 4 – Table 4-1 WATER QUALITY OBJECTIVES.

Page 4-4 add the following footnote after “REC-1 Fecal Coliform: log mean less than 200 organisms/100¹”:

Pathogen Indicator Bacteria¹

Objectives, targets, and TMDL and/or Waste Load Allocations listed in the Basin Plan that are associated with bacteria are expressed with different units (i.e., organisms, colony forming units [cfu], or most probably number [MPN] /100 mL). “CFU” and “MPN” represent units specific to analytical techniques used to quantify bacteria concentration, whereas “organisms” is a generic term used to express bacteria concentration. All unit expressions are considered equivalent measures of bacteria concentration (see Protocol for Developing Pathogen TMDLs, USEPA 2001, Office of Water, EPA 841-R-00-002 p 2-1).

Table 4-1 WATER QUALITY OBJECTIVES Page 4-34

Revise list of waters shown in the following pages (with the addition of certain waters, changes in the format of this table occurred (waters already listed were moved to subsequent pages). Therefore, as a matter of clarity, the surface water portions of this Table are reproduced below in their entirety, including the changes delineated in Attachment 2):

Table 4-1 WATER QUALITY OBJECTIVES

OCEAN WATERS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
NEARSHORE ZONE*									
San Gabriel River to Poppy Street in Corona del Mar+	---	---	---	---	---	---	---	801.11	
Poppy Street to Southeast Regional Boundary+	---	---	---	---	---	---	---	801.11	
OFFSHORE ZONE									
Waters Between Nearshore Zone And Limit of State Waters+	---	---	---	---	---	---	---		

- * Defined by Ocean Plan Chapter II A.1.: “Within a zone bounded by shoreline and a distance of 1000 feet from shoreline or the 30-foot depth contour, whichever is further from shoreline...”
- + Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

BAYS, ESTUARIES, AND TIDAL PRISMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Los Cerritos Wetlands+	---	---	---	---	---	---	---	801.11	
Anaheim Bay – Outer Bay+	---	---	---	---	---	---	---	801.11	
Anaheim Bay – Seal Beach National Wildlife Refuge+	---	---	--	---	---	---	---	801.11	
Sunset Bay – Huntington Harbour+	---	---	---	---	---	---	---	801.11	
Bolsa Bay+	---	---	---	---	---	---	---	801.11	
Bolsa Chica Ecological Reserve+	---	---	---	---	---	---	---	801.11	
Lower Newport Bay+	---	---	---	---	---	---	---	801.11	
Upper Newport Bay+	---	---	---	---	---	---	---	801.11	

+ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

BAYS, ESTUARIES, AND TIDAL PRISMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Santa Ana River Salt Marsh+	---	---	---	---	---	---	---	801.11	
Huntington Beach Wetlands+	---	---	---	---	---	---	---	801.11	
Tidal Prism of Santa Ana River (to within 1000' of Victoria Street) and Newport Slough+	---	---	---	---	---	---	---	801.11	
Tidal Prism of San Gabriel River – River Mouth to Marina Drive+	---	---	---	---	---	---	---	845.61	
Tidal Prism of Santa Ana-Delhi Channel – Bicycle Bridge at University Dr. at Upper Newport Bay to 1036 ft. upstream+	---	---	---	---	---	---	---	801.11	
Tidal Prism of Greenville-Banning Channel – Santa Ana River Confluence to Inflatable diversion dam^+	---	---	---	---	---	---	---	801.11	
Tidal Prisms of Flood Control Channels Discharging to Coastal or Bay Waters+	---	---	---	---	---	---	---	801.11	

+ Numeric objectives have not been established; narrative objectives apply.

^ The Inflatable Diversion Dam is ~ 0.23 mile downstream of confluence with Fairview Channel.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
LOWER SANTA ANA RIVER BASIN									
Santa Ana River									
Reach 1 – Tidal Prism to 17 th Street in Santa Ana+	(Flood Flows Only)							801.11	
Reach 2 - 17 th Street in Santa Ana to Prado Dam	650 ¹	---	---	---	---	---	---	801.11	801.12
Aliso Creek+	---	---	---	---	---	---	---	845.63	
Carbon Canyon Creek+	---	---	---	---	---	---	---	845.63	
Santiago Creek Drainage									
Santiago Creek									
Reach 1 – below Irvine Lake	600	---	---	---	---	---	---	801.12	801.11
Reach 2 - Irvine Lake (see Lakes, pg. 4-51)		---	---	---	---	---	---		
Reach 3 – Irvine Lake to Modjeska Canyon	350	260	20	12	2	80	---	801.12	
Reach 4 – in Modjeska Canyon	350	260	20	12	2	80	---	801.12	
Silverado Creek	650	450	30	20	1	275	---	801.12	
Black Star Creek+	---	---	---	---	---	---	---	801.12	
Ladd Creek+	---	---	---	---	---	---	---	801.12	

¹ Five-year moving average

+ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
San Diego Creek Drainage									
San Diego Creek									
Reach 1 – below Jeffrey Road	1500	---	---	---	13	---	90	801.11	
Reach 2 – above Jeffrey Road to Headwaters	720	---	---	---	5	---	---	801.11	
Other Tributaries: Bonita Creek, Serrano Creek, Peters Canyon Wash, Hicks Canyon Wash, Bee Canyon Wash, Borrego Canyon Wash, Agua Chinon Wash, Laguna Canyon Wash, Rattlesnake Canyon Wash, Sand Canyon Wash and other Tributaries to these Creeks+	---	---	---	---	---	---	---	801.11	
Newport Bay Drainages									
Santa Ana-Delhi Channel									
Reach 1 – upper boundary of Tidal Prism to intersection of Sunflower Ave./Flower St. Intersection+	---	---	---	---	---	---	---	801.10	

+ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Reach 2 – above Sunflower Ave./Flower St. intersection to Warner Avenue+	---	---	---	---	---	---	---	801.10	
Big Canyon Creek+	---	---	---	---	---	---	---	801.10	
Newport Coast Drainages									
Morning Canyon Creek+	---	---	---	---	---	---	---	801.11	
Muddy Canyon Creek+	---	---	---	---	---	---	---	801.11	
Los Trancos Creek+	---	---	---	---	---	---	---	801.11	
Buck Gully Creek+	---	---	---	---	---	---	---	801.11	
Greenville Banning Channel									
Reach 1-Inflatable Diversion Dam to California Street+	---	---	---	---	---	---	---	801.10	
San Gabriel River Drainages									
Coyote Creek (within Santa Ana Regional Boundary)+	---	---	---	---	---	---	---	845.61	
Carbon Creek+	---	---	---	---	---	---	---	845.61	
Fullerton Creek+	---	---	---	---	---	---	---	845.61	
Brea Creek+	---	---	---	---	---	---	---	845.61	

+ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
UPPER SANTA ANA RIVER BASIN									
Santa Ana River									
Reach 3 – Prado Dam to Mission Blvd. in Riverside – Base Flow ²	700	350	110	140	10 ³	150	30	801.21	801.27, 801.25
Reach 4 – Mission Blvd. in Riverside to San Jacinto Fault in San Bernardino	550	---	---	---	10	---	30	801.27	801.44
Reach 5 – San Jacinto Fault in San Bernardino to Seven Oaks Dam	300	190	30	20	5	60	25	801.52	801.57
Reach 6 – Seven Oaks Dam to Headwaters (see also Individual Tributary Streams)	200	100	30	10	1	20	5	801.72	
San Bernardino Mountain Streams									
Mill Creek Drainage									
Mill Creek									
Reach 1 – Confluence with Santa Ana River to Bridge Crossing Route 38 at Upper Powerhouse	200	100	30	10	1	20	5	801.58	
Reach 2 – Bridge Crossing Route 38 at Upper Powerhouse to Headwaters	110	100	25	5	1	15	5	801.58	

² Additional Objectives: Boron: 0.75 mg/l

³ Total nitrogen, filtered sample

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Mountain Home Creek	200	100	30	10	1	20	5	801.58	
Mountain Home Creek, East Fork	200	---	---	---	---	---	---	801.70	
Monkeyface Creek	200	100	30	10	1	20	5	801.70	
Alger Creek	200	---	---	---	---	---	---	801.70	
Falls Creek	200	100	30	10	1	20	5	801.70	
Vivian Creek	200	---	---	---	---	---	---	801.70	
High Creek	200	---	---	---	---	---	---	801.70	
Other Tributaries: Lost, Oak Cove, Green, Skinner, Momyer, Glen Martin, Camp, Hatchery, Rattlesnake, Slide, Snow, Bridal Veil, and Oak Creeks and other Tributaries to these Creeks	200	---	---	---	---	---	---	801.70	
Bear Creek Drainage									
Bear Creek	175	115	10	10	1	4	5	801.71	
Siberia Creek	200	---	---	---	---	---	---	801.71	
Slide Creek	175	---	---	---	---	---	---	801.71	
Johnson Creek	175	---	---	---	---	---	---	801.71	
All other Tributaries to these Creeks+	---	---	---	---	---	---	---	801.71	

+ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Big Bear Lake (see Lakes, pg. 4-51)									
Big Bear Lake Tributaries									
North Creek	175	---	---	---	---	---	---	801.71	
Metcalf Creek	175	---	---	---	---	---	---	801.71	
Grout Creek	150	---	---	---	---	---	---	801.71	
Rathbone (Rathbun) Creek	300	---	---	---	---	---	---	801.71	
Meadow Creek+	---	---	---	---	---	---	---	801.71	
Summit Creek+	---	---	---	---	---	---	---	801.71	
Knickerbocker Creek									
Reach 1- concrete channel; the Lake to Village Dr.	175	---	---	---	---	---	---	801.71	
Reach 2- natural channel, Village Dr. to headwater	175	---	---	---	---	---	---	801.71	
Other Tributaries to Big Bear Lake: Minnelusa, Poligue, and Red Ant Creeks and other Tributaries to these Creeks	175	---	---	---	---	---	---	801.71	

+ Numeric objectives have not been established; narrative objectives apply

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Baldwin Lake (see Lakes, pg. 4-51)									
Baldwin Lake Drainage									
Shay Creek+	---	---	---	---	---	---	---	801.73	
Other Tributaries to Baldwin Lake: Sawmill, Green, and Caribou Canyons and other Tributaries to these Creeks+	---	---	---	---	---	---	---	801.73	
Other Streams Draining to Santa Ana River (Mountain Reaches [‡])									
Cajon Canyon Creek	200	100	30	10	1	20	5	801.52	
City Creek	200	115	30	10	1	20	5	801.57	
Devil Canyon Creek	275	125	35	20	1	25	5	801.57	
East Twin and Strawberry Creeks	475	---	---	---	---	---	---	801.57	
Waterman Canyon Creek	250	---	---	---	---	---	---	801.57	
Fish Creek	200	100	30	10	1	20	5	801.57	
Forsee Creek	200	100	30	10	1	20	5	801.72	
Plunge Creek	200	100	30	10	1	20	5	801.72	

+ Numeric objectives have not been established; narrative objectives apply. .

‡ The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Barton Creek	200	100	30	10	1	20	5	801.72	
Bailey Canyon Creek	200	---	---	---	---	---	---	801.72	
Kimbark Canyon, East Fork Kimbark Canyon, Ames Canyon and West Fork Cable Canyon Creek	325	---	---	---	---	---	---	801.52	
Valley Reaches [‡] of Above Streams, except Cajon Canyon Creek	(Water Quality Objectives Correspond to Underlying GW Basin Objectives)							801.52	
Cajon Canyon Creek, Valley Reach ⁺	---	---	---	---	---	---	---	802.52	
Other Tributaries (Mountain Reaches [‡]): Alder, Badger Canyon, Bledsoe Gulch, Borea Canyon, Breakneck, Cable Canyon, Cienaga Seca, Cold, Converse, Coon, Crystal, Deer, Elder, Fredalba, Frog, Government, Hamilton, Heart Bar, Hemlock, Keller, Kilpecker, Little Mill, Little Sand Canyon, Lost, Meyer Canyon, Mile, Monroe Canyon, Oak, Rattlesnake, Round Cienaga, Sand, Schneider, Staircase, Warm Springs Canyon and Wild Horse Creeks, and other	200	100	30	10	1	20	5	801.72	801.71, 801.57

[‡] The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains.

⁺ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES – Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Warm Creek ⁺	---	---	---	---	---	---	---	801.52	
San Gabriel Mountain Streams (Mountain Reaches [‡])									
San Antonio Creek	225	150	20	6	4	25	5	801.23	
Lytle Creek (South, Middle, and North Forks) and Coldwater Canyon Creek	200	100	15	4	4	25	5	801.41	801.42, 801.52, 801.59
Day Canyon Creek	200	100	15	4	4	25	5	801.21	
East Etiwanda Creek	200	100	15	4	4	25	5	801.21	
Valley Reaches [‡] of Above Streams	(Water Quality Objectives Correspond to Underlying GW Basin Objectives)							801.21	
Lytle Creek, Valley Reach	(Water Quality Objectives Correspond to Underlying GW Basin Objectives)							801.21	
Cucamonga Creek									
Reach 1 – Confluence with Mill Creek to 23 rd St. in Upland ⁺	---	---	---	---	---	---	---	801.21	
Reach 2 (Mountain Reach [‡]) – 23 rd St. in Upland to headwaters	200	100	15	4	4	25	5	801.24	
Mill Creek (Prado Area) ⁺	---	---	---	---	---	---	---	801.25	

[‡] The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains.

⁺ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Other Tributaries (Mountain Reaches [‡]): San Sevaine, Deer, Duncan Canyon, Henderson Canyon, Bull, Fan, Demens, Thorpe, Angalls, Telegraph Canyon, Stoddard Canyon, Icehouse Canyon, Cascade Canyon, Cedar, Failing Rock, Kerkhoff and Cherry Creeks and other Tributaries to these Creeks	200	---	---	---	---	---	---	801.21	801.23
Valley Reaches of Above Streams [‡]	---	---	---	---	---	---	---	801.21	
San Timoteo Area Streams									
San Timoteo Creek **									
Reach 1A – Santa Ana River Confluence to Barton Road	---	---	---	---	---	---	---	801.52	801.53
Reach 1B – Barton Road to Gage at San Timoteo Canyon Rd. u/s of Yucaipa Valley WD discharge	---	---	---	---	---	---	---	801.52	801.53
Reach 2 – Gage at San Timoteo Canyon Road to Confluence with Yucaipa Creek	---	---	---	---	---	---	---	801.52	801.62

+ Numeric objectives have not been established; narrative objectives apply

‡ The Division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

** Surface water objectives not established; underlying Management Zone objectives apply. Biological quality protected by narrative objectives

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Reach 3** – Confluence with Yucaipa Creek to confluence with Little San Gorgonio and Noble Creeks (Headwaters of San Timoteo Creek)	---	---	---	---	---	---	---	801.62	
Oak Glen, Potato Canyon and Birch Creeks	230	125	50	40	3	45	5	801.67	
Little San Gorgonio Creek	230	125	50	40	3	45	5	801.69	801.62, 801.63
Yucaipa Creek	290	175	60	60	6	45	15	801.67	801.61,
Other Tributaries to these Creeks – Valley Reaches + ‡	---	---	---	---	---	---	---	801.62	801.52, 801.53
Other Tributaries to these Creeks – Mountain Reaches ‡	290	---	---	---	---	---	---	801.69	801.67
Anza Park Drain+	---	---	---	---	---	---	---	801.27	
Sunnyslope Channel+	---	---	---	---	---	---	---	801.27	
Goldenstar Creek+	---	---	---	---	---	---	---	801.27	
Hole Lake Creek+	---	---	---	---	---	---	---	801.27	
Tequesquite Arroyo (Sycamore Creek)+	---	---	---	---	---	---	---	801.27	

+ Numeric objectives have not been established; narrative objectives apply

** Surface water objectives not established; underlying Management Zone objectives apply. Biological quality protected by narrative objectives

‡ The Division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Prado Area Streams									
Chino Creek									
Reach 1A – Santa Ana River confluence to downstream of confluence with Mill Creek (Prado Area) – Base Flow*	700	350	110	140	10**	150	30	801.21	
Reach 1B – Confluence of Mill Creek (Prado Area) to beginning of concrete- lined channel south of Los Serranos Road	550	240	75	75	8	60	15	801.21	
Reach 2 – Beginning of concrete lined channel south of Los Serranos Road to confluence with San Antonio Creek+	---	---	---	---	---	---	---	801.21	
Temescal Creek									
Reach 1a – Lincoln Avenue to Arlington Channel confluence+	---	---	---	---	---	---	---	801.27	
Reach 1b – Arlington Channel confluence to 1400 ft. upstream upstream of Magnolia Avenue+	---	---	---	---	---	---	---	801.27	
Reach 2 – 1400 ft. upstream of Magnolia Avenue to Lee Lake+	---	---	---	---	---	---	---	801.27	

* Additional objective: Boron 0.75 mg/l

** Total nitrogen, filtered sample

+ Numeric objectives have not been established; narrative objectives apply

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Reach 3 – Lee Lake (see Lakes, pg. 4-51)									
Reach 4 – Lee Lake to Mid-section line of Section 17 (downstream end of freeway cut)+	---	---	---	---	---	---	---	801.34	
Reach 5 – Mid-section line of Section 17 (downstream end of freeway cut) to Elsinore Groundwater Subbasin Boundary+	---	---	---	---	---	---	---	801.35	
Reach 6 – Elsinore Groundwater Subbasin Boundary to Lake Elsinore Outlet+	---	---	---	---	---	---	---	801.35	
Coldwater Canyon Creek	250	---	---	---	---	---	---	801.32	
Bedford Canyon Creek+	---	---	---	---	---	---	---	801.32	
Dawson Canyon Creek+	---	---	---	---	---	---	---	801.32	
Other Tributaries to these Creeks	250	---	---	---	---	---	---	801.32	

+ Numeric objectives have not been established; narrative objectives apply

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
SAN JACINTO RIVER BASIN									
San Jacinto River									
Reach 1 – Lake Elsinore to Canyon Lake	450	260	50	65	3	60	15	802.32	802.31
Reach 2 – Canyon Lake (see Lakes, pg. 4-52)									
Reach 3 – Canyon Lake to Nuevo Road	820	400	---	250	6	---	15	802.11	
Reach 4 – Nuevo Road to North-South Mid-Section Line, T4S/R1 W-S8*	500	220	75	125	5	65	---	802.14	802.21
Reach 5 – North-South Mid-Section Line, T4S/R1 W-S8, to Confluence with Poppet Creek	300	140	30	25	3	40	12	802.21	
Reach 6 – Poppet Creek to Cranston Bridge	250	130	25	20	1	30	12	802.21	
Reach 7 – Cranston Bridge to Lake Hemet	150	100	10	15	1	20	5	802.21	

* Note the quality objective for Reach 4 is not intended to preclude transport of water supplies or delivery to Canyon Lake

Table 4-1 WATER QUALITY OBJECTIVES - Continued

INLAND SURFACE STREAMS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
Bautista Creek – Headwaters to Debris Dam	250	130	25	20	1	30	5	802.21	802.23
Strawberry Creek and San Jacinto River, North Fork	150	100	10	15	1	20	5	802.21	
Fuller Mill Creek	150	100	10	15	1	20	5	802.22	
Stone Creek	150	100	10	15	1	20	5	802.21	
Indian Creek	150	70	10	12	1	15	5	802.21	
Other Tributaries: Logan, Black Mountain, Juaro Canyon, Herkey, Poppet and Potrero Creeks, and other Tributaries to these Creeks	150	70	10	12	1	15	5	802.12	802.22
Salt Creek+	---	---	---	---	---	---	---	802.12	
Goodhart Canyon, St. John's Canyon, and Cactus Valley Creeks+	---	---	---	---	---	---	---	802.15	
Perris Valley Channel+	---	---	---	---	---	---	---	802.11	

+ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

LAKES AND RESERVOIRS	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
UPPER SANTA ANA RIVER BASIN									
Baldwin Lake*+	---	---	---	---	---	---	---	801.73	
Big Bear Lake**	175	125	20	10	0.15	10	---	801.71	
Erwin Lake+	---	---	---	---	---	---	---	801.73	
Evans Lake	490	---	---	---	---	---	---	801.27	
Jenks Lake	200	100	30	10	1	20	---	801.72	
Lee Lake+	---	---	---	---	---	---	---	801.34	
Mathews, Lake	700	325	100	90	---	290	---	801.33	
Mockingbird Reservoir	650	---	---	---	---	---	---	801.26	
Norconian, Lake	1050	---	---	---	---	---	---	801.25	
Prado Park Lake+	---	---	---	---	---	---	---	801.21	
LOWER SANTA ANA RIVER BASIN									
Anaheim Lake	600	---	---	---	---	---	---	801.11	
Irvine Lake (Santiago Reservoir)	730	360	110	130	6	310	---	801.12	
Peters Canyon, Rattlesnake, Sand Canyon, and Siphon Reservoirs	720	---	---	---	---	---	---	801.11	

* Fills occasionally with storm flows; may evaporate completely

** Additional Objective: 0.15 mg/L Phosphorus

+ Numeric objectives have not been established; narrative objectives apply.

Table 4-1 WATER QUALITY OBJECTIVES - Continued

WETLANDS (INLAND)	WATER QUALITY OBJECTIVES (mg/L)							Hydrologic Unit	
	Total Dissolved Solids	Hardness	Sodium	Chloride	Total Inorganic Nitrogen	Sulfate	Chemical Oxygen Demand	Primary	Secondary
San Jacinto Freshwater Marsh**	2000	---	---	---	13	---	90	801.11	
Shay Meadows+	---	---	---	---		---	---	801.73	
Stanfield Marsh+**	---	---	---	---	---	---	---	801.71	
Prado Basin Management Zone @	---	---	---	---	---	---	---	801.21	
San Jacinto Wildlife Preserve+**	---	---	---	---	---	---	---	802.11	802.14
Glen Helen+	---	---	---	---	---	---	---	801.59	
Mill Creek Wetlands+	---	---	---	---	---	---	---	801.21	
Gunnerson Pond+	---	---	---	---	---	---	---	801.35	

** This is a created wetlands as defined in the wetlands discussion (see Chapter 3)

+ Numeric objectives have not been established; narrative objectives apply

@ Includes the Prado Flood Control Basin, a created wetland as defined in the wetlands discussion (see Chapter 3). Chino Creek, Reach 1A, Chino Creek, 1B, Mill Creek (Prado Area) and Santa Ana River, Reach 3 TDS and TIN numeric objectives apply (see discussion)

CHANGES TO CHAPTER 5 – IMPLEMENTATION

Add footnote to Page 5-105

[NOTE re Table 5-REC1-ssv: Alternative Method for Assessing Probable Compliance with the *E. coli* Objective in Freshwaters designated REC1 when Insufficient Data are Available to Calculate a Geometric Mean (next page): As noted at the outset of this section, USEPA disapproved single sample maximum *E. coli* values greater than 410 cfu/100 mL.¹

¹Objectives, targets, and TMDL and/or Waste Load Allocations listed in the Basin Plan that are associated with bacteria are expressed with different units (i.e., organisms, colony forming units [cfu], or most probably number [MPN] /100 mL). “CFU” and “MPN” represent units specific to analytical techniques used to quantify bacteria concentration, whereas “organisms” is a generic term used to express bacteria concentration. All unit expressions are considered equivalent measures of bacteria concentration (see Protocol for Developing Pathogen TMDLs, USEPA 2001, Office of Water, EPA 841-R-00-002 p 2-1).

Amend Antidegradation targets for REC2 only waters Table 5 on Page 108

Table 5-REC2 Only Targets-FW

REC2 Only Waterbody	<i>E. coli</i> Densities (cfu/100 mL)				
	Geometric Mean	Std. Dev.	N	Max. Observed	75%
Temescal Creek, Reach 1a and 1b	353	1.1	36	9,200	725
Santa Ana-Delhi Channel, Reach 1 and Reach 2	399	1.5	55	12,590	1,067
Cucamonga Creek Reach 1	509	1.5	197	23,000	1,385

Amend CHAPTER 5 IMPLEMENTATION Newport Bay Watershed

3.a. Fecal Coliform TMDL

A prioritized, phased approach to the control of pathogen indicator bacterial quality in the Bay is specified in this TMDL. This approach is appropriate, given the complexity of the problem, the paucity of relevant data on bacterial sources and fate, the expected difficulties in identifying and implementing appropriate control measures, and uncertainty regarding the nature and attainability of the SHEL use in the Bay. The phased approach is intended to allow for additional monitoring and assessment to address areas of uncertainty and for future revision and refinement of the TMDL as warranted by these studies.

Table 5-9f summarizes the TMDL, Waste Load Allocations (WLAs) for point sources of fecal coliform inputs and Load Allocations (LAs) for nonpoint source inputs. As shown, the TMDL, WLAs and LAs are established to assure compliance with water contact recreation standards no later than December 30, 2014, and with shellfish standards no later than December 31, 2022. WLAs are specified for vessel waste and urban runoff, including stormwater, the quality of which is regulated under a County-wide NPDES permit issued by the Regional Board. This runoff is thus regulated as a point source, even though it is diffuse in origin. LAs are specified for fecal coliform inputs from agricultural runoff, including stormwater, and natural sources. The TMDL is to be adjusted, as appropriate, based upon completion of the studies contained in Table 5-9g. Upon completion of these studies, an updated TMDL report will be prepared summarizing the results of the studies and making recommendations regarding implementation of the TMDL. The results of the studies may lead to recommendations for changes to the TMDL specified in Table 5-9f to assure compliance with existing Basin Plan standards (objectives and beneficial uses). The study results may also lead to recommendations for changes to the Basin Plan objectives and/or beneficial uses. If such standards changes are approved through the Basin Plan amendment process, then appropriate changes to the TMDL would be required to assure attainment of the revised standards. Revision of the TMDL, if appropriate, would also be considered through the Basin Plan amendment process.

Upon completion and consideration of the studies and any appropriate Basin Plan amendments, a plan for compliance with the TMDL specified in Table 5-9f, or with an approved amended TMDL, will be established. It is expected that this plan will specify a phased compliance approach, based on consideration of such factors as geographic location, the priority assigned by the Regional Board to specific locations for control actions (see Section 3.a.ii, "Beneficial Use Assessment"), season, etc. Interim WLAs, LAs and compliance dates that lead to ultimate compliance with the TMDL will be established.

The TMDL and its allocations contain a significant margin of safety. The margin of safety can be either incorporated implicitly through analytical approaches and

assumptions used to develop the TMDL or added explicitly as a separate component of the TMDL. A substantial margin of safety is implicitly incorporated in the TMDL in the fact that the TMDL does not apply criteria for dilution, natural die-off, and tidal flushing. The TMDL, WLAs, and LAs are established at concentrations equivalent to the water quality objectives.

Table 5-9f: Total Maximum Daily Load, Waste Load Allocations, and Load Allocations for Fecal Coliform in Newport Bay

Total Maximum Daily Load for Fecal Coliform In Newport Bay	Waste Load Allocations for Fecal Coliform in Urban Runoff, including stormwater, Discharges to Newport Bay	Load Allocations for Fecal Coliform in Agricultural Runoff, including stormwater, Discharges to Newport Bay	Load Allocations for Fecal Coliform from Natural Sources in all Discharges to Newport Bay	Waste Load Allocations for Vessel Waste
As soon as possible but no later than December 30, 2013			In Effect	In Effect
5-Sample/30-days Geometric Mean less than 200 organisms/100 mL, and not more than 10% of the samples exceed 400 organisms/ 100 mL for any 30-day period.	5-Sample/30-days Geometric Mean less than 200 organisms/100 mL, and not more than 10% of the samples exceed 400 organisms/ 100 mL for any 30-day period.	5-Sample/30-days Geometric Mean less than 200 organisms/ 100 mL, and not more than 10% of the samples exceed 400 organisms/ 100 mL for any 30-day period.	5-Sample/30-days Geometric Mean less than 200 organisms/100 mL, and not more than 10% of the samples exceed 400 organisms/ 100 mL for any 30-day period.	0 MPN/100 mL No discharge.
As soon as possible but no later than December 31, 2022				In Effect
Monthly Median less than 14 MPN/100 mL, and not more than 10% of the samples exceed 43 MPN/100 mL.	Monthly Median less than 14 MPN/100 mL, and not more than 10% of the samples exceed 43 MPN/100 mL.	Monthly Median less than 14 MPN/100 mL, and not more than 10% of the samples exceed 43 MPN/100 mL.	Monthly Median less than 14 MPN/100 mL, and not more than 10% of the samples exceed 43 MPN/100 mL.	0 MPN/100 mL No discharge.

3.a.ii.h TMDL Implementation

The Regional Board is committed to the review of this TMDL every three years or more frequently if warranted by these or other studies.

Add CHAPTER 6 TOTAL MAXIMUM DAILY LOADS (TMDLS) and Introductory Narrative; Revise Subsequent Chapter Numbering

CHAPTER 6 TOTAL MAXIMUM DAILY LOADS (TMDLS)

The Federal Clean Water Act (CWA) Section 303(d) requires that States identify waters that do not or are not expected to meet water quality standards (beneficial uses, water quality objectives and the antidegradation policy) with the implementation of technology-based controls. Once a waterbody has been placed on the 303(d) list of impaired waters, states are required to develop a Total Maximum Daily Load (TMDL) to address each pollutant causing impairment. A TMDL defines how much of a pollutant a waterbody can tolerate and still meet water quality standards. Each TMDL must account for all sources of the pollutant, including: discharges from wastewater treatment facilities; runoff from homes, forested lands, agriculture, and streets or highways; contaminated soils/sediments, legacy contaminants such as DDT and PCBs, on-site disposal systems (septic systems) and deposits from the air. Federal regulations require that the TMDL, at a minimum, account for contributions from point sources (permitted discharges) and contributions from nonpoint sources, including natural background. In addition to accounting for past and current activities, TMDLs may consider projected growth that could increase pollutant levels. TMDLs establish numeric targets that, when attained, are expected to correct impairment and achieve water quality standards. To meet those targets, TMDLs allocate allowable pollutant loads to each of the identified sources.

In 2013, USEPA announced a new collaborative framework for implementing the CWA Section 303(d) Program with states.¹ This new “Vision Framework” encourages states to consider alternatives to the development and implementation of TMDLs as the first response to correct water quality impairment. USEPA recognized that alternative approaches, such as the Non-TMDL Action Plans (Action Plans) identified for certain metals in Newport Bay incorporated in this Chapter (see 6.1 Zinc (Zn), Mercury (Hg), Arsenic (As), Chromium (Cr): Zn, Hg, As and Cr Non-TMDL Action Plans (Action Plans) for Newport Bay) may be a more efficient yet equally effective way to address impaired waters. Where such alternative restoration approaches are implemented but prove to be ineffective, TMDLs must be developed to assure that water quality standards are achieved.

¹ USEPA .A Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program. 2013.

California state law (Porter-Cologne Water Quality Control Act, California Water Code Section 13000 et. seq.) requires regional boards to formulate and adopt water quality control plans, or Basin Plans, for all areas within their jurisdiction. The Basin Plans must include an implementation plan that describes how the water quality standards established in the Basin Plans will be met. TMDLs are typically adopted into the Basin Plans through the Basin Planning process and, pursuant to state law, must include implementation plans. The TMDLs incorporated in this Chapter include implementation plans and, where appropriate, compliance schedules.

CHAPTER 7 MONITORING AND ASSESSMENT

CHAPTER 8 WATER RESOURCES AND WATER QUALITY MANAGEMENT