California Regional Water Quality Control Board
Santa Ana Region

RESOLUTION NO. R8-2012-0002

Resolution Amending the Water Quality Control Plan for the Santa Ana River Basin to Incorporate Updates Related to the Salt Management Plan

WHEREAS, the California Regional Water Quality Control Board - Santa Ana Region (hereinafter Regional Board), finds that:

1. An updated Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) was adopted by the Regional Board on March 11, 1994, approved by the State Water Resources Control Board (SWRCB) on July 21, 1994, and approved by the Office of Administrative Law (OAL) on January 24, 1995.

2. The Basin Plan identifies the Region's ground and surface waters, designates beneficial uses for those waters, establishes water quality objectives for the protection of those uses, prescribes implementation plans and establishes monitoring and surveillance programs to assess implementation efforts.

3. Amendments to the Basin Plan to incorporate a revised Total Dissolved Solids and Nitrogen Management Plan (Salt Management Plan) into the 1995 Basin Plan were approved by the Regional Board on January 22, 2004, by the State Water Resources Control Board on October 1, 2004 and by the Office of Administrative Law on December 23, 2004. The surface water standards provisions of the amendments were approved by the U.S. Environmental Protection Agency on January 20, 2007.

4. The Basin Plan may be amended in accordance with California Water Code section 13240 et seq. Federal and state laws require the Regional Board to review and update the Basin Plan periodically to take into consideration the best available science and new data and information.

5. Changes to the Basin Plan are needed to: update the boundary of the Prado Basin Management Zone based on new hydrogeological data; delete obsolete elements of the Salt Management Plan; revise the submittal date for the Salt Management Plan annual report; and, revise the monitoring programs required by the Chino Basin Maximum Benefit Program. None of these changes would result in a change in water quality objectives or beneficial uses or result in significant changes to the implementation plan.

6. The Regional Board has considered the costs associated with implementation of these amendments and finds that the implementation costs are comparable to or less than costs to implement the existing Salt Management Plan

7. The proposed amendments do not revise or adopt water quality objectives and, therefore, the Regional Board is not required to consider the factors set forth in Water Code section 13241.

8. The proposed amendments do not contain scientific elements requiring an independent, external scientific peer review pursuant to Health and Safety Code 57004.

9. The proposed amendments are consistent with the State's antidegradation policy, State Water Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California".

10. The proposed amendments meet the "Necessity" standard of the Administrative Procedure Act, Government Code, Section 11352, subdivision (b).

11. The Regional Board prepared and distributed a written report (staff report) describing the proposed Basin Plan amendments and the rationale supporting each in accordance with applicable state environmental regulations (Calif. Code of Regulations, Title 23, Section 3775 et seq.,)

12. Extensive analysis of the Salt Management Plan pursuant to the California Environmental Quality Act (CEQA) was conducted as part of the consideration of that Plan in 2004. The proposed changes to this Plan would have no material direct or indirect effect on the environment, nor would they modify the findings of the prior CEQA analyses of the Plan. Accordingly, since no further CEQA analysis is required, no filing fees need to be paid to the California Department of Fish and Game.

13. On February 10, 2012 the Regional Board held a Public Hearing to consider the proposed Basin Plan amendments. Notice of the Public Hearing was sent to all interested persons and published in accordance with Section 13244 of the California Water Code. The Regional Board considered all testimony offered at the hearing and other written comments submitted by the public before taking any final action.

14. The Basin Plan amendments must be submitted for review and approval by the State Water Resources Control Board (SWRCB), and the Office of Administrative Law (OAL). Once approved by the SWRCB, the amendments are submitted to OAL. The Basin Plan amendments will become effective upon approval by OAL. A Notice of Decision will be filed.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. Pursuant to Sections 13240 et seq. of the California Water Code, the Regional Board, after considering the entire record, including all testimony provided at the public hearing, adopts the amendments to the Water Quality Control Plan for the Santa Ana River Basin as set forth in the Attachment to this Resolution.

2. The Executive Officer is directed to forward copies of the Basin Plan amendments to the SWRCB in accordance with the requirements of Section 13245 of the California Water Code.

3. The Regional Board requests that the SWRCB approve the Basin Plan amendments in accordance with the requirements of Sections 13245 and 13246 of the California Water Code and, thereafter, forward the amendments to the OAL for their approval.

4. If during its approval process the SWRCB or OAL determine that minor, non-substantive corrections to the language of the amendments are needed for clarity or consistency, the Executive Officer may make such changes and shall inform the Regional Board forthwith.

I, Kurt V. Berchtold, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of a resolution adopted by the California Regional Water Quality Control Board – Santa Ana Region on February 10, 2012.

Kurt V. Berchtold
Executive Officer

ATTACHMENT TO RESOLUTION NO. R8-2012-0002

(Proposed Basin Plan amendment changes are shown as ~~strikeout~~ for deletions and underline for additions

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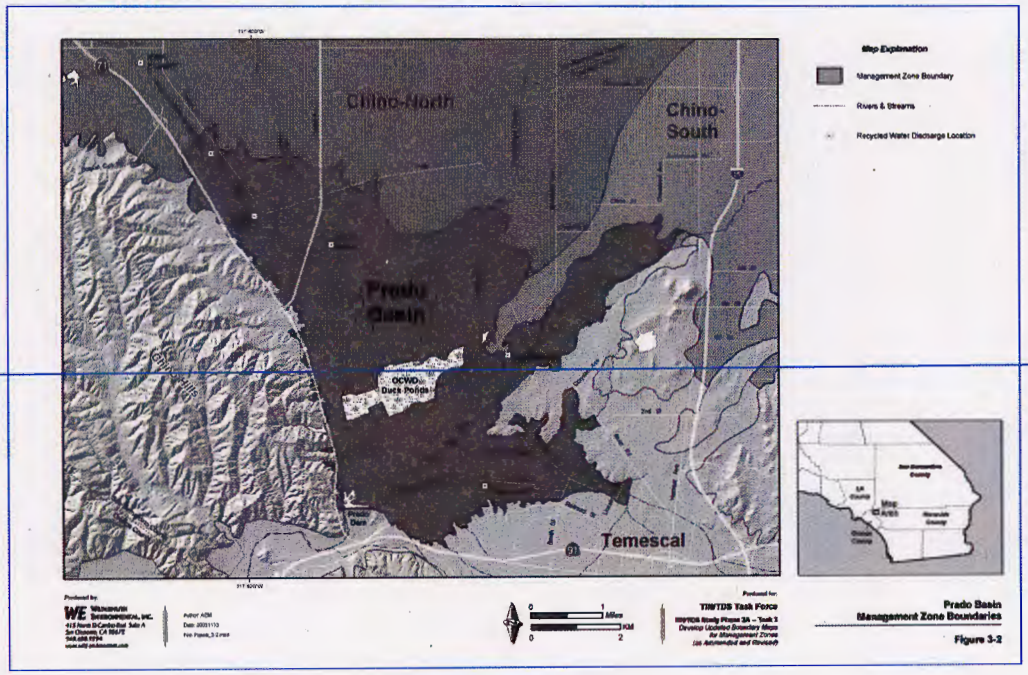
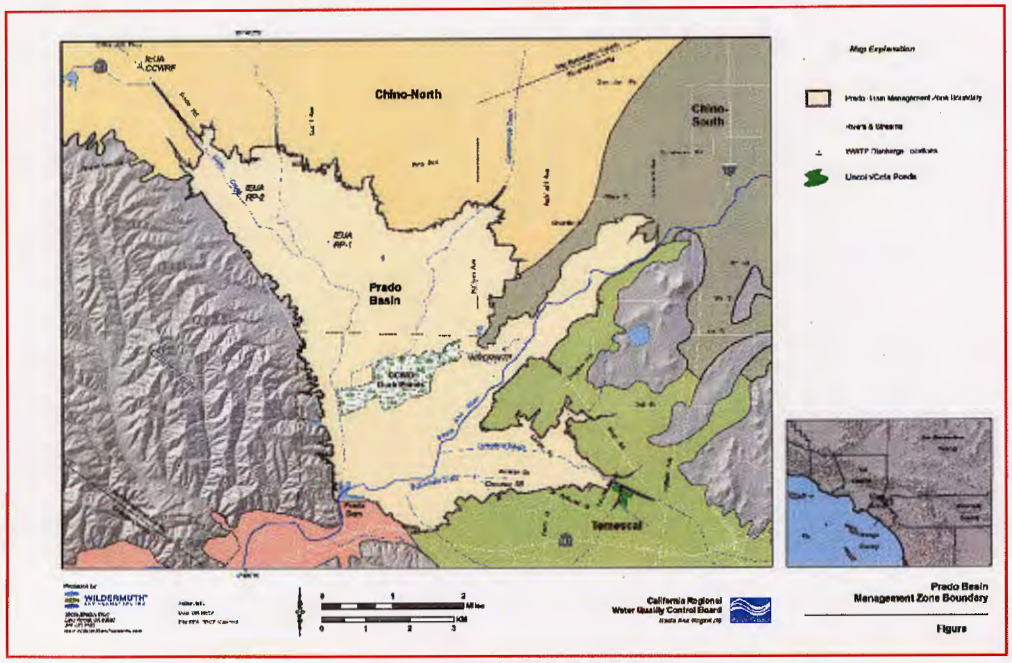
Chapter 3, "Beneficial Uses"

Page 3-11, Figure 3-2; Prado Basin Management Zone Boundaries

- Delete existing Basin Plan map



- Insert new map of Prado Basin Management Zone boundaries



Chapter 5, "Implementation"

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V. Salt Management Plan – Monitoring Program Requirements

A. Surface Water Monitoring Program Requirements for TDS and Nitrogen

2. By ~~April 15th~~ August 15th of each year, the Orange County Water District, Inland Empire Utilities Agency, City of Riverside, City of Corona, Elsinore Valley Municipal Water District, Eastern Municipal Water District, Lee Lake Water District, City of Colton, City of San Bernardino Municipal Water Department, Jurupa Community Services District, Western Riverside County Regional Wastewater ~~Agency~~ Authority, Yucaipa Valley Water District, City of Beaumont, ~~the San Timoteo Watershed Management Authority~~ and the City of Rialto, shall submit an annual report of Santa Ana River, Reach 2 , 4 and 5 water quality. Data evaluated shall include that collected by the Santa Ana River Watermaster, Orange County Water District, and the US Geologic Survey, at a minimum.

   In lieu of this coordinated annual report, one or more of the parties identified in the preceding paragraph may submit an individual or group annual report. Any such individual or group report shall also be submitted by August 15th of each year.

   Additional surface water monitoring programs may be specified by the Regional Board depending upon watershed conditions, waste discharge specifications and/or any special studies related to TDS and nitrogen.

B. Groundwater Monitoring Program for TDS and Nitrogen

Implementation of a watershed-wide TDS/nitrogen groundwater monitoring program is necessary to assess current water quality, to determine whether TDS and nitrate-nitrogen water quality objectives for management zones are being met or exceeded, and to update assimilative capacity findings. Groundwater monitoring is also needed to fill data gaps for those management zones with insufficient data to calculate TDS and nitrate-nitrogen historical quality and current quality. Finally, groundwater monitoring is needed to assess the effects of POTW discharges to surface waters on affected groundwater management zones. ~~In particular, monitoring is needed to confirm the 50% nitrogen loss coefficient for discharges to that part of the Santa Ana River, Reach 3 that affect the Chino South Management Zone~~.

Groundwater monitoring requirements for TDS and nitrogen are as follows:

~~2. No later than June 23, 2005, the City of Colton, City of San Bernardino Municipal Water Department, City of Riverside, Jurupa Community Services District and the City of Rialto, shall submit to the Regional Board for approval, a monitoring program that will be utilized to confirm the 50% Santa Ana River, Reach 3 nitrogen loss coefficient.~~

~~In lieu of this coordinated monitoring plan, one or more of the parties identified in the preceding paragraph may submit an individual or group monitoring plan. Any such individual or group monitoring plan shall also be due no later than June 23, 2005.~~

~~Within 30 days of Regional Board approval of the monitoring plan, the monitoring program must be implemented.~~

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VI. Maximum Benefit Implementation Plans for Salt Management

A. Salt Management - Chino Basin and Cucamonga Basin

Table 5-8a
Chino Basin Maximum Benefit Commitments
(revised in 2012; see text)

Description of Commitment	**Compliance Date – as soon as possible, but no later than**
1. Surface Water Monitoring Program	
a. Submit Draft Monitoring Program to Regional Board	a. January 23, 2005
b. Implement Monitoring Program	b. Within 30 days from date of Regional Board approval of monitoring plan
~~b. Quarterly data report submittal~~	~~c. April 15, July 15, October 15, January 15~~
c. Submit Draft Revised Monitoring Program to Regional Board	c. (**15 days from BPA approval)
d. Implement Revised Monitoring Program	d. Upon Regional Board approval
e. Submit Draft Revised Monitoring Program(s) (subsequent to that required in "c", above) to Regional Board	e. Upon notification of the need to do so from the Regional Board Executive Officer and in accordance with the schedule prescribed by the Executive Officer
f. Implement Revised Monitoring Program (s)	f. Upon Regional Board approval
~~d~~g. Annual data report submittal	~~d~~g. ~~February~~ April 15th
2. Groundwater Monitoring Program	
a. Submit Draft Monitoring Program to Regional Board	a. January 23, 2005
b. Implement Monitoring Program	b. Within 30 days from date of Regional Board approval of monitoring plan
c. Plan and schedule for demonstrating hydraulic control	c. By December 31, 2013.
d. Implement hydraulic control demonstration plan and schedule	d. Upon Regional Board approval.
e. Submit Draft Revised Monitoring Program(s) (subsequent to that required in "a", above) to Regional Board	e. Upon notification of the need to do so from the Regional Board Executive Officer and in accordance with the schedule prescribed by the Executive Officer
f. Implement revised monitoring plan(s)	f. Upon Regional Board approval
~~e~~g. Annual data report submittal	~~e~~g. ~~February~~ April 15th
3. Chino Desalters a. Chino 1 desalter expansion to 10 MGD b. Chino 2 desalter at 10 MGD design	a. Prior to recharge of recycled water b. Recharge of recycled water allowed once award of contract and notice to proceed issued for construction of desalter treatment plant
4. Future desalters plan and schedule submittal	October 1, 2005 Implement plan and schedule upon Regional Board approval

Table 5-8a
Chino Basin Maximum Benefit Commitments
(revised in 2012; see text)

Description of Commitment	**Compliance Date – as soon as possible, but no later than**
5. Recharge facilities (17) built and in operation	June 30, 2005
6. IEUA wastewater quality improvement plan and schedule submittal	60 days after agency-wide 12 month running average effluent TDS quality equals or exceeds 545 mg/L for 3 consecutive months or agency-wide 12 month running average TIN equals or exceeds 8 mg/L in any month. Implement plan and schedule upon approval by Regional Board
7. Recycled water will be blended with other recharge sources so that the 5-year running average TDS and nitrate-nitrogen concentrations of water recharged are equal to or less than the "maximum benefit" water quality objectives for the affected Management Zone (Chino North or Cucamonga).	Compliance must be achieved by end of 5th year after initiation of recycled water recharge operations.
a. Submit a report that documents the location, amount of recharge, and TDS and nitrogen quality of stormwater recharge before the OBMP recharge improvements were constructed and what is projected to occur after the recharge improvements are completed	a. Prior to initiation of recycled water recharge
b. Submit documentation of amount, TDS and nitrogen quality of all sources of recharge and recharge locations. For stormwater recharge used for blending, submit documentation that the recharge is the result of CBW/IEUA enhanced recharge facilities.	b. Annually, by ~~February~~ April 15th, after initiation of construction of basins/other facilities to support enhanced stormwater recharge.
8. Hydraulic Control Failure	
a. Plan and schedule to correct loss of hydraulic control	a. 60 days from Regional Board finding that hydraulic control is not being maintained
b. Achievement and maintenance of hydraulic control	b. In accordance with plan and schedule approved by Regional Board. The schedule shall assure that hydraulic control is achieved as soon as possible ~~but no later than 180 days after loss of hydraulic control is identified.~~
c. Mitigation plan for temporary failure to achieve/maintain hydraulic control	c. By January 23, 2005. Implement plan upon Regional Board determination that hydraulic control is not being maintained (see text).
9. Ambient groundwater quality determination	July 1, 2005 and every 3 years thereafter

Description of Chino Basin Watermaster and Inland Empire Utilities Agency Commitments

1. Surface Water Monitoring Program (Table 5-8a #1)

~~The Chino Basin Watermaster (Watermaster), in conjunction with staff of the Orange County Water District and Regional Board, has developed a proposed surface water monitoring program. By January 23, 2005 and prior to the discharge of recycled water to the Chino Basin, Watermaster shall submit the recommended surface water monitoring program to the Regional Board for approval. The monitoring program must be implemented within 30 days of Regional Board approval, and six months of data must be generated prior to the discharge of recycled water to the Chino Basin.~~

In conjunction with the Groundwater Monitoring Program (see #2, below), the purpose of the surface water monitoring program is to collect the data necessary to demonstrate whether hydraulic control of the Chino Basin (see #8, below) is being achieved and maintained. A surface water monitoring program was developed, approved and implemented in response to the maximum benefit commitments initially incorporated in the Basin Plan in 2004 (Resolution No. R8-2004-0001). The Regional Board approved the Surface Water Monitoring Program in 2005 (R8-2005-0064). Subsequently, the need to revise the monitoring program, and other elements of the maximum benefit commitments (see below), was recognized and appropriate amendments were adopted in 2012 (Resolution No. R8-2012-0002). These include the requirement that by (**15 days from approval of the BPA**), the Watermaster shall submit a revised surface water monitoring program to the Regional Board for approval. The monitoring program must be implemented upon Regional Board approval.

It is expected that the monitoring program will be reviewed as it is implemented over time, and that further updates may be necessary. Accordingly, the Basin Plan requires that draft revised monitoring programs be submitted upon notification by the Regional Board's Executive Officer of the need to do so. The schedule for the submittal will be prescribed by the Executive Officer. Any such revision to the monitoring program is subject to Regional Board approval at a duly noticed public hearing and is to be implemented upon Regional Board approval.

~~At a minimum, the surface water monitoring program shall include the collection of bi-weekly measurements of general minerals and nitrogen components at the locations listed in Table 5-8b. Data reports shall be submitted to the Regional Board Executive Officer by April 15, July 15, October 15 and January 15 each year.~~ An annual report summarizing all data collected for the year and evaluating compliance with relevant surface water objectives shall be submitted by ~~February~~ April 15th of each year.

2. Groundwater Monitoring Program (Table 5-8a, #2)

The purpose of the Groundwater Monitoring Program is to (1) identify potential impacts from implementation of the Chino Basin "maximum benefit" water quality objectives on water levels and water quality within the Chino Basin and in downgradient basins and (2) in conjunction with the surface water monitoring program, determine whether hydraulic control (see # 8, below) is being achieved and maintained. ~~By January 23, 2005 and prior to the discharge of recycled water to the Chino Basin, Watermaster shall submit to~~ In response to

requirements established in 2004 (Resolution No. R80 2004-0001), a proposed groundwater monitoring program was submitted. In 2005, t~~T~~he Regional Board ~~for~~ approved~~al~~ a ~~proposed~~ groundwater monitoring program to determine hydraulic control and ambient water quality in the Chino North and Cucamonga Management Zones (Resolution No. R8-2005-0064). ~~Within 30 days of Regional Board approval of the monitoring plan, the groundwater monitoring program must be implemented.~~ The groundwater monitoring program has been ongoing since 2005.

As noted above, the maximum benefit requirements were revised in 2012. Pursuant to these revisions, no later than December 31, 2013, the Watermaster and IEUA shall prepare an updated proposed groundwater monitoring program that includes a proposed plan and schedule for demonstration of hydraulic control. This plan shall be implemented upon Regional Board approval.

It is expected that the monitoring program will be reviewed as it is implemented over time, and that further updates may be necessary. Accordingly, the Basin Plan requires that draft revised monitoring programs be submitted upon notification by the Regional Board's Executive Officer of the need to do so. The schedule for the submittal will be prescribed by the Executive Officer. Any such revision to the monitoring program is subject to Regional Board approval at a duly noticed public hearing and is to be implemented upon Regional Board approval.

An annual report, including all raw data and summarizing the results of the approved groundwater monitoring program, shall be submitted to the Regional Board by ~~February~~ April 15th of each year.

Table 5-8b

Surface Water Monitoring Sites for Monitoring of Surface Water and Groundwater Quality Near the River to Determine the Presence and Source of Rising Groundwater

Site Name	Discharge	Owner	Type	Discharge Monitoring		Water Quality Monitoring		
				Frequency	Period	Frequency	Period	Analyses
11066460	Santa Ana Riv.	USGS	Total Discharge	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
11072100	Temescal Cr.	USGS	Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
11073495	Cucamonga Cr.	USGS	Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
11073440	Chino Cr.	USGS	Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
11074000	Santa Ana Riv.	USGS	Total Discharge	Bi-weekly	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
RWQCP Direct	Recycled Water	Riverside	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
RWQCP Hidden Valley	Recycled Water	Riverside	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
Corona RW	Recycled Water	Corona	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
RP1 Cucamonga	Recycled Water	IEUA	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
RP1 Prado	Recycled Water	IEUA	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
RP2	Recycled Water	IEUA	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
Carbon Canyon	Recycled Water	IEUA	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
RP5	Recycled Water	IEUA	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
WRCRWTP	Recycled Water	WR-JPA	Recycled Water	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-MWDXING	Santa Ana Riv.	OCWD	Total Discharge	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-HOLELK-01	Hole Lake	OCWD	Total Discharge	Bi-weekly	May-Sep	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-VANBUREN	Santa Ana Riv.	OCWD	Total Discharge	Bi-weekly	May-Sep	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-ETIWANDA-01	Santa Ana Riv.	OCWD	Total Discharge	Bi-weekly	May-Sep	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-HAMNER-01	Santa Ana Riv.	OCWD	Total Discharge	Bi-weekly	May-Sep	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-RIV.RD	Santa Ana Riv.	OCWD	Total Discharge	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-DIV-PRADOWTLNDS	Santa Ana Riv.	OCWD	Total Discharge	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
SAR-BELOWDAM-01	Santa Ana Riv.	OCWD	Total Discharge	Daily	Jan - Dec	Bi-weekly	Jan - Dec	Gen. Min. & Physical
CK-CHINO	Chino Cr.	OCWD	Total Discharge	Bi-weekly	May-Sep	Bi-weekly	Jan - Dec	Gen. Min. & Physical
CK-MILL	Cucamonga Cr.	OCWD	Total Discharge	Bi-weekly	May-Sep	Bi-weekly	Jan - Dec	Gen. Min. & Physical
CK-TEMESCAL	Temescal Cr.	OCWD	Total Discharge	Bi-weekly	May-Sep	Bi-weekly	Jan - Dec	Gen. Min. & Physical

(Source: Ref. 10B)

8. Hydraulic Control (Table 5-8a, # 8)

"Hydraulic Control" is defined as eliminating groundwater discharge from the Chino Basin to the Santa Ana River, or controlling the discharge to *de minimis* levels. The surface water and groundwater monitoring programs described above are intended to demonstrate whether hydraulic control is achieved and maintained. In the event that the Regional Board finds that hydraulic control is not being accomplished, the Watermaster ~~shall~~ is required to submit to the Regional Board within 60 days of that finding a plan and time schedule to correct ~~(within 180 days from the Regional Board approval of the plan and schedule)~~ the failure to achieve and maintain hydraulic control. This plan must be implemented as soon as possible.

In response to a 2010 finding that hydraulic control was not being achieved, Watermaster and IEUA implemented an approved corrective action and mitigation plan and schedule. Additional plans and schedules to address hydraulic control deficiencies will be required if and as there are future Regional Board findings that hydraulic control is not being achieved or maintained.