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Brief Issue Descriptions

for the
Triennial Review
of the
Water Quality Control Plan for the
Central Coastal Basin

August 25, 2017

This report was prepared by Steven G. Saiz, Environmental Scientist, with assistance from Central Coast Water Board staff.
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Introduction

The Water Quality Control Plan for the Central Coastal Basin (Basin Plan) was initially adopted by the Central Coast Regional Water Quality Control Board (Central Coast Water Board) in 1975 and has periodically been revised. The current Basin Plan (2016 edition) can be found on the Central Coast Water Board Basin Planning website at:

http://www.waterboards.ca.gov/centralcoast/publications_forms/publications/basin_plan/index.shtml

The Basin Plan explains how the quality of surface waters and groundwaters in the Central Coastal Basin should be managed to provide the highest water quality reasonably possible. The Basin Plan defines and designates beneficial uses of surface waters and groundwaters (i.e., waters of the state), establishes narrative or numeric water quality objectives (WQOs) to protect beneficial uses, and contains provisions to protect high quality waters from degradation (i.e., antidegradation). The Basin Plan also includes a program of implementation for achieving water quality objectives and outlines corrective measures to be implemented when developing discharge limitations. Figure 1 shows the geographic boundary of the Central Coast Region.

Figure 1. Central Coast (Region 3) Water Board Boundary

Basin Plans fulfill statutory requirements for water quality planning in the California Water Code (section 13240) and in the federal Clean Water Act (section 303(c)). The Clean Water Act requires a state’s water quality standards to be reviewed every three years. The last Triennial Review of the Basin Plan was completed in November 2014.

Consequently, the Central Coast Water Board is conducting the 2017 Triennial Review of the Basin Plan. The Triennial Review will identify priority issues to potentially be further developed and addressed through subsequent Basin Plan amendment projects. Basin Plan amendment projects serve to update the Basin Plan, increase its utility, and improve its effectiveness as a tool to protect water quality.
In this document, staff has identified a preliminary list of Basin Planning issues. The public is encouraged to provide comment on the preliminary list or any other issues that may eventually result in an amendment of the Basin Plan.

**Basin Plan Amendment Process**

The Clean Water Act (section 303(c)(1)) requires states to hold public hearings for the review of water quality standards at least once every three years. Water quality standards consist of beneficial use designations and water quality criteria (objectives) necessary to protect those uses. In addition, the California Water Code (section 13240) requires Basin Plans to be periodically reviewed and possibly revised. While a major part of the review process consists of identifying potential Basin Plan improvements, an important part of the review is the reaffirmation of those portions of the plan where no potential problems are identified.

The Basin Plan Triennial Review process is complete once the Central Coast Water Board approves a priority list of issues to be considered for Basin Plan Amendments. Once the priority list is established, Central Coast Water Board staff will further develop a Basin Plan amendment project for the highest priority issues, according to available resources. Additionally, Central Coast Water Board staff may propose Basin Plan amendments for issues not identified during the Basin Plan Triennial Review. For example, amendments will be considered for urgent issues or to address new laws and regulations. Hearings for Basin Plan amendments are advertised to the public throughout the Central Coast Region. Basin Plan amendments become effective when approved by the Central Coast Water Board, the California State Water Resources Control Board (State Water Board), and the California Office of Administrative Law. Amended surface water standards also require the approval of the U.S. Environmental Protection Agency (USEPA) to become effective.

The 2017 Triennial Review process will include a public workshop, a public comment period, and a public hearing. Central Coast Water Board staff will solicit input on relevant Basin Planning issues from external stakeholders during a 45 day comment period. Central Coast Water Board will also hold a public workshop to encourage verbal comments. Following the triennial review public workshop and receipt of written comments, Central Coast Water Board staff will prepare a 2017 Triennia Review Project Report, which will include a recommended priority list of issues to be evaluated for Basin Plan amendments.

The priority list identifies primary issues that can be completed within existing resource allocations over a three-year period and a secondary list of issues requiring additional resources to complete. Placement of an issue on the priority list will prompt Central Coast Water Board staff to investigate the need for a Basin Plan amendment; it does not necessarily mean that a Basin Plan amendment will subsequently be made.

The Central Coast Water Board plans to hold a public hearing in December 2017 to discuss and approve the final priority list of the issues for staff to evaluate as Basin Plan Amendments.

**Previous Triennial Reviews**

The previous Triennial Review of the Central Coastal Basin Plan was conducted in 2014. This effort resulted in nine priority issues for staff to develop into possible Basin Plan amendments. Based on expected Basin Planning resources of two personnel years (PY) for three years, staff
planned to address eight of the nine priority issues in the 2014 Triennial Review. However, resources devoted to Basin Planning were approximately one PY per year. As a result, staff completely addressed three priority issues, partially addressed two priority issues, and made substantial progress on one priority issue. For additional information about the 2014 Triennial Review and other previous triennial reviews, please see the following webpage:

http://www.waterboards.ca.gov/centralcoast/publications_forms/publications/basin_plan/triennial_review/index.shtml

Table 1 presents 2014 Triennial Review issue descriptions and progress made by staff to resolve the issues during the period 2014 through 2017. Central Coast Water Board staff made measured progress on several of the issues. Three of the nine issues were completed entirely (Vision Framework, Groundwater Basin Configurations Update, and Comprehensive Basin Plan Editorial Revisions). Progress was made on three of the nine issues (Watershed and Integrated Water Resource Protection, Designation of Beneficial Uses, and Aquatic Life Protection). No progress was made on three of the nine issues (Revision of Water Quality Objectives for Specific Waterbodies, Ocean Protection, and Waste Discharge Prohibitions).

Table 1. 2014 Triennial Review Issues and Progress Made during the period 2014 to 2017.

<p>| Priority Issue                                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Progress                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Watershed and Integrated Water Resource Protection | Amend the Basin Plan to develop authority to address the highest priority activities and factors that affect waters. Amendments will focus on achieving preservation and restoration of watershed processes through implementation of integrated water resource management planning. These amendments and follow-up actions may include prohibitions, beneficial use definitions, water quality objectives, implementation, policies, permit terms, guidelines, and incentives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Substantial progress. A methodology was developed to identify the highest priority watershed processes that are not currently adequately protected by Water Board regulatory mechanisms. A work plan was developed to implement the methodology and pursue Basin Plan amendments or other actions to address the identified highest priority watershed processes. This project was put on hold pending further refinement of Water Board goals for integrated water resource management, to ensure the project is consistent with those goals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2. Designation of Beneficial Uses                   | Evaluate adequacy of existing Basin Plan beneficial use designations for specific surface waterbodies and for waterbodies not named in Tables 2-1 or 2-2. Clarify the designation of groundwater beneficial uses; Establish a tributary rule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Task completed. Basin Plan amendment adopted at November 2016 Board Meeting to revise beneficial use designations for ten surface waterbodies in Basin Plan Table 2-1. No progress on remaining tasks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |</p>
<table>
<thead>
<tr>
<th>Priority Issue</th>
<th>Description</th>
<th>Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Revision of Water Quality Objectives for Specific Waterbodies</td>
<td>In coordination with groundwater management and other water resources agencies, revise water quality objectives (for chloride, sulfate, boron, sodium, nitrate, and total dissolved solids) in surface waters (Table 3-5) and groundwaters (Table 3-6) based on historical data using statistically-defensible methods. Link these objectives to specific beneficial uses, such as municipal and domestic supply (MUN).</td>
<td>No progress.</td>
</tr>
<tr>
<td>4. Ocean Protection</td>
<td>Amend the Basin Plan to develop the authority to adequately address all relevant factors and activities that contribute to ocean water quality. Strengthen existing water quality standards in the Basin Plan for marine and estuarine waters by developing water quality objectives (for pH, nutrients, carbonate chemistry parameters, total alkalinity, or dissolved inorganic carbon) and by designating additional beneficial uses for sensitive coastal waters.</td>
<td>No progress.</td>
</tr>
<tr>
<td>5. Aquatic Life Protection</td>
<td>Adopt numeric water quality objectives for several Basin Plan narrative water quality objectives, including turbidity and toxicity, which protect aquatic life beneficial uses.</td>
<td>Substantial progress; Staff report for amendment of Basin Plan turbidity units released for public comments in April 2017. Basin Plan amendment of turbidity water quality objective units were adopted at the July 13-14 2017 Central Coast Water Board Meeting. No progress on remaining tasks.</td>
</tr>
<tr>
<td>7. Waste Discharge Prohibitions</td>
<td>Add enforceable language to the Basin Plan to prohibit the discharge of wastes to land and the discharge of pollutants or dredged or fill materials to state waters.</td>
<td>No progress.</td>
</tr>
</tbody>
</table>
### 2017 Triennial Review Schedule and Public Participation

Public participation is an important part of the Triennial Review. The process will include a public workshop, public comment period, and public hearing. The purpose of the workshop is to provide information to and solicit comments from interested parties regarding the Basin Plan Triennial Review. In addition, interested parties will have an opportunity to submit written comments during a 45-day comment period.

The planned schedule for the 2017 Basin Plan Triennial Review is as follows:

- **Public comment period begins**: August 28, 2017
- **Public workshop in San Luis Obispo**: September 19, 2017
- **Public comment period ends**: October 12, 2017
- **Public Hearing & Board meeting**: December 7-8, 2017

The Central Coast Water Board maintains an email subscription list for anyone interested in receiving periodic announcements about the Triennial Review of the Basin Plan. To sign up for these announcements, go to the following webpage and select “Basin Planning Triennial Review”:

[http://www.waterboards.ca.gov/resources/email_subscriptions/reg3_subscribe.shtml](http://www.waterboards.ca.gov/resources/email_subscriptions/reg3_subscribe.shtml)

### Issue Ranking Criteria

The criteria for ranking issues that may result in a future Basin Plan amendment include a consideration how well the issue aligns with the Central Coast Water Board’s Vision. Other considerations include improved water quality, effectiveness, and public interest. These factors are described below.

#### Central Coast Water Board Vision

The Vision for the Central Coast Water Board is *Healthy Watersheds*. The Vision represents a framework for how we conduct business and achieve measurable results in water quality improvement. The Vision structures our work towards our highest water quality priorities and
more strategically aligns us with current and future challenges and opportunities in water quality protection.

Consistent with the Vision, the Central Coast Water Board has established the following measurable goals:

- **Healthy Aquatic Habitat** – By 2025, 80 percent of aquatic habitat is healthy, and the remaining 20 percent exhibits positive trends in key parameters.
- **Proper Land Management** – By 2025, 80 percent of lands within a watershed will be managed to maintain proper watershed functions, and the remaining 20 percent will exhibit positive trends in key watershed parameters.
- **Clean Groundwater** – By 2025, 80 percent of groundwater will be clean, and the remaining 20 percent will exhibit positive trends in key parameters.

The Vision and measurable goals were added to the Basin Plan in 2016. For additional information about the Central Coast Water Board’s Vision process, please see the following webpage:
http://www.waterboards.ca.gov/centralcoast/publications_forms/publications/vision/index.shtml

**Central Coast Water Board Priorities**

In October 2013, the Central Coast Water Board refined a list of priorities to facilitate assignment of staff and other financial resources to specific projects and tasks aligned with the Vision and Measurable Goals. These priorities include the following:

- Preventing and Correcting Threats to Human Health
- Preventing and Correcting Degradation of Aquatic Habitat
- Preventing Degradation of Hydrologic Processes
- Preventing/Reversing Seawater Intrusion
- Preventing Further Degradation of Groundwater Basins from Salts

For additional information about the Central Coast Water Board’s priorities, please see the following webpage:

**Issue Prioritization Criteria**

The Central Coast Water Board will prioritize Basin Plan amendment projects in order to achieve our Vision and goals over the long term.

Completion of projects addressing Basin Plan Triennial Review issues may require the assistance of stakeholders, scientific research organizations, other agencies (such as municipal discharge authorities), and USEPA. To give detailed attention to each issue concurrently, however, would far outstrip available personnel resources.

Therefore, Central Coast Water Board staff will use a ranking process to prioritize all potential Basin Plan amendment issues according to specific criteria. Each potential Basin Plan issue will be assigned a score between 1 (low priority) and 5 (high priority) for each of the criteria listed below. Assignment of these scores will be based on staff professional judgement and experience, as well as input received during the public workshop and in comment letters. The ranking criteria are as follows:
• **Vision Alignment** - Does the issue align with the Central Coast Water Board’s Vision, Measurable Goals, and priorities (stated above)?

• **Water Quality Standards Improvement** - Will the issue improve water quality standards through new or revised beneficial uses or water quality objectives?

• **Effectiveness** - Will the issue advance water quality protection by improving 1) regulatory and program efficiency, or 2) legal authority to regulate activities that negatively impact water quality and watershed processes?

• **Public Interest** - Does the issue have a high perceived public interest?

Staff will prioritize the potential issues by summing each criteria score into a final score ranging from four (low priority) to 20 (highest priority). Staff will also consider other factors such as geographic scope, resources already invested, and availability of additional resources.

**Public Comments (placeholder)**

A total of X comment letters were received during the Triennial Review public comment period (Table 2). Staff has reviewed all public comments received. A summary of comments made by each commenter identified in Table 2 is included in the appropriate issue descriptions that follow. Central Coast Water Board staff responses are included in the specific issue summary.

<table>
<thead>
<tr>
<th>No.</th>
<th>Commenting Organization</th>
<th>Representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Organization X</td>
<td>Name X</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Table 2. Public Comment Letters Received During the 2017 Triennial Review**

**Brief Issue Descriptions**

Note: Section numbers in the 2016 Basin Plan were modified from the use of Roman numerals to a hierarchical numbering system via Central Coast Water Board Resolution No. R3-2016-0030, which at the time of writing, is being reviewed by the USEPA. The 2017 edition of the Basin Plan will use the hierarchical section numbering system. For example, *Enforcement Actions* was previously cited as **Chapter 4, section V.A.6** and will now be cited as **section 4.5.1.6**.


The following issue descriptions cite the hierarchical 2017 Basin Plan section numbers.

*Format for Basin Plan Issue Descriptions*
Based on previous stakeholder comments, coordination with the statewide Basin Planning Roundtable group, and a review of regulatory program needs, staff has prepared the following list of initial Triennial Review issues. Staff has included newly identified Basin Plan issues, as well as issues carried over from the previous Triennial Review.

The purpose of this list is to encourage input from interested parties to assist staff in identifying and prioritizing potential Basin Plan amendment projects that will best address the water quality planning needs of the Central Coast Region. The public is encouraged to comment on these issues or on any other basin planning issue not currently identified.

Each issue description contains the following sections:

**Issue:**
A general topic name for the issue.

**Discussion:**
A brief description of the issue, including progress made toward issue resolution, if appropriate.

**Type of Action:**
A description of the type of Basin Plan amendment action necessary to address or resolve the issue. Possible types of action are as follows:

- beneficial use amendment (new or revised);
- water quality objective amendment (new or revised);
- implementation amendment (new or revised);
- new or revised policy;
- water quality surveillance and monitoring amendment; or
- editorial corrections or minor clarifications to the Basin Plan.

**Public Comment Summary:**
A list of each commenter and a summary of the commenter’s testimony and comments on the issue.

**Staff Response:**
Central Coast Water Board staff responses to public comments.

**Evaluation Score:**
A numeric score, based on the prioritization ranking criteria, ranging from 0 (lowest priority) to 20 (highest priority).

**Recommendation:**
A preliminary recommendation from Central Coast Water Board staff for the action to be performed to address the issue. Possible recommendations are as follows:
• Prioritize this issue during the 2017 Triennial Review;
• Remove this issue from 2017 Triennial Review; or
• Remove this issue from 2017 Triennial Review – State Board actively working on this issue.

Introduction (Chapter 1) Related Issues

| Issue 1: Update Population Information (editorial) |

Discussion:
Update the table displaying Central Coast county populations in section 1.3 based on latest census information.

Type of Action:
Editorial correction or minor clarification

Beneficial Use (Chapter 2) Related Issues

| Issue 2: Clarify Uses for Waterbodies Not Specifically Named |

Discussion:
This is a carry-over issue from the 2014 Triennial Review. Amendments of the Basin Plan are needed to improve the adequacy of present and potential beneficial uses for unnamed surface and groundwaters in Chapter 2.

Basin Plan language in section 2.1, Present and Potential Beneficial Uses, has created some limitations on Central Coast Water Board staff’s ability to interpret water quality conditions and apply protective water quality targets. Additionally, the language has led to differing interpretations, internally and with external stakeholders, regarding which beneficial uses and water quality objectives apply to which surface waterbodies. Consequently, the Central Coast Water Board could consider clarifying this language.

For example, the following sentence in Chapter 2,

Surface waterbodies within the Region that do not have beneficial uses designated for them not listed in Table 2-1 are assigned the following designations:
• Municipal and Domestic Water Supply
• Protection of both recreation and aquatic life.

could be amended as follows to better indicate which of several possible beneficial uses are specifically meant by the text:

Surface waterbodies within the Region that are not listed in Table 2-1 are designated the following beneficial uses:
• Municipal and Domestic Water Supply (MUN),
• Protection of recreation (REC-1 and REC-2),
• Protection of aquatic life (COLD or WARM).
Type of Action: Beneficial use amendment (new or revised)

**Issue 3: Clarify Uses for Flood Control Conveyances**

**Discussion:**
This is a carry-over issue from the 2014 Triennial Review. In previous triennial reviews, the City of Santa Maria suggested that flood control channels (conveyances) should be considered as part of a man-made drainage system and not designated with 1) Municipal and Domestic Water Supply or 2) Protection of both recreation and aquatic life beneficial uses.

Type of Action: Beneficial use amendment (new or revised)

**Issue 4: Establish a Tributary Rule**

**Discussion:**
This is a carry-over issue from the 2014 Triennial Review. The Central Coast Water Board may better protect water quality by expanding the designation of beneficial uses from waterbodies with explicitly designated beneficial uses to the upstream tributaries that drain into these waterbodies. This could be done by amending Chapter 2 of the Basin Plan to add a rule that states that beneficial uses designated for any waterbody also apply to that waterbody’s upstream tributary.

Establishment of a tributary rule, however, may be more of a convenience than a necessity. Water Quality Control Plans for all other regions (except the Central Coastal Basin and the Colorado River Basin) contain a tributary rule. In the regions without an explicit tributary rule, existing state and federal law is sufficient for the protection of water quality. Existing Basin Plan language in section 2.1 states that surface waters that do not have beneficial uses designated for them in Table 2-1 are assigned municipal and domestic water supply (MUN) and protection of both recreational and aquatic life beneficial uses.

Type of Action: Beneficial use amendment (new or revised)

**Issue 5: Modify Groundwater Recharge Use Definition**

**Discussion:**
This is a carry-over issue from the 2014 Triennial Review. The Basin Plan groundwater recharge beneficial use definition (section 2.2.5) could be revised to include maintenance of instream flows, riparian habitat, and wetland habitat.

Type of Action: Beneficial use amendment (new or revised)
Issue 6: Designate Surface Waters that Recharge Groundwater

Discussion:
This is a carry-over issue from the 2014 Triennial Review. Chapter 2 could be amended to designate all surface waters that percolate to groundwater in Table 2-1 for groundwater recharge (GWR). Notable exceptions would be waterbodies that are impermeable for their entire reach, such as concrete-lined conveyances. All waterbodies that overlay groundwater basins in Figure 2-2 could include the GWR beneficial use. Chapter 2 could include lists and maps of clearly-defined GWR areas.

Type of Action:
Beneficial use amendment (new or revised)

Issue 7: Designate Aquatic Life Uses For Groundwater

Discussion:
Groundwater in California and in the Basin Plan has traditionally been designated only for municipal supply (MUN), agricultural supply (AGR), and industrial supply (IND). It is quite possible the levels of protection established to support of MUN, AGR, IND are inadequate to support aquatic habitat, wildlife, and terrestrial ecosystems in groundwater dependent ecosystems.

Groundwater systems could have revised Basin Plan designated uses by adding aquatic habitat/ecosystem support beneficial uses in selected groundwater basins. Such designations would require some substantial research such as using spatial analysis and mapping of groundwater dependent ecosystems. This is the emphasis of the following quote from “Mapping Groundwater Dependent Ecosystems in California” by Howard and Merrifield (2010):

Most groundwater conservation and management efforts focus on protecting groundwater for drinking water and for other human uses with little understanding or focus on the ecosystems that depend on groundwater. However, groundwater plays an integral role in sustaining certain types of aquatic, terrestrial and coastal ecosystems, and their associated landscapes.

Type of Action:
Beneficial use amendment (new or revised)

Issue 8: Remove Beneficial Uses For Selected Waterbodies

Discussion:
This is a carry-over issue from the 2014 Triennial Review. Several commenters identified the need to remove specific beneficial use designations from certain waterbodies:

<table>
<thead>
<tr>
<th>Hydrologic Unit</th>
<th>Waterbody Name</th>
<th>Use Recommend for Removal</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>Loch Lomond Reservoir</td>
<td>SHELL</td>
</tr>
<tr>
<td>312</td>
<td>Santa Maria River</td>
<td>MUN, REC1, REC2</td>
</tr>
<tr>
<td>314</td>
<td>Santa Ynez River (downstream of Cachuma Res.)</td>
<td>MUN, AGR, PROC</td>
</tr>
<tr>
<td>Hydrologic Unit</td>
<td>Waterbody Name</td>
<td>Use Recommend for Removal</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>314</td>
<td>Graves Wetland (Bailey Wetland)</td>
<td>REC-1, REC-2, COMM, SPWN</td>
</tr>
<tr>
<td>315</td>
<td>Sycamore Creek</td>
<td>AGR</td>
</tr>
<tr>
<td>315</td>
<td>Glen Annie Canyon</td>
<td>AGR</td>
</tr>
<tr>
<td>315</td>
<td>Atascadero Creek (SB Co.)</td>
<td>AGR</td>
</tr>
<tr>
<td>315</td>
<td>Maria Ygnacio Creek</td>
<td>AGR</td>
</tr>
<tr>
<td>315</td>
<td>San Jose Creek (SB Co.)</td>
<td>AGR</td>
</tr>
<tr>
<td>315</td>
<td>San Pedro Creek</td>
<td>AGR</td>
</tr>
<tr>
<td>315</td>
<td>Franklin Creek</td>
<td>AGR</td>
</tr>
<tr>
<td>315</td>
<td>Carpinteria Creek</td>
<td>AGR</td>
</tr>
</tbody>
</table>

40 CFR 131.10(g) specifies the conditions required to remove a beneficial use. An existing use may not be removed. For removal of “fishable and swimmable” uses, a detailed use attainability analysis (UAA) is required. For removal of other uses, a report comparable to a UAA is required. Under recently promulgated regulations, removed uses must be replaced with the highest attainable use as defined in 40 CFR 131.3(m).

**Type of Action:**
Beneficial use de-designation amendment

**Issue 9: Add RARE Uses for Selected Waterbodies**

**Discussion:**
RARE beneficial use designations could be added to Moore Creek, Wilder Creek, Green Oaks Creek, Bates Creek, and Berry Creek in Basin Plan Table 2-1. Such recommendations are based on the following Cal Poly contract work for the Central Coast Water Board in 1995:

Babby. 1995. *Updating Beneficial Uses for Waters in Region 3 and Justifying Biological and Rare Use Designations*. R:\RB3\Shared\WQ Control Planning\Basin Plan\BP Interpretation\Ben Uses\1995 Cal Poly Updating Ben Uses Region 3 Babby.pdf

**Type of Action:**
Beneficial use amendment (new or revised)

**Issue 10: Add MUN Use for Coastal Waters**

**Discussion:**
Ocean waters are increasingly being used for the production of drinking water by desalination. The California Ocean Plan designates beneficial uses of ocean waters, but does not include the municipal and domestic supply (MUN) use. The Basin Plan could designate coastal waters with MUN.

**Type of Action:**
Beneficial use amendment (new or revised)
**Issue 11: Add Aquatic Life Uses for Steelhead**

*Discussion:*
COLD, MIGR, and SPWN could be added to Table 2-1 for waterbodies not already designated based on the National Marine Fisheries Service’s *Critical Habitat for Steelhead* GIS Layers. This effort was done on a limited-basis via Central Coast Water Board Resolution 2016-0030, which designated COLD, MIGR, and SPWN to five waterbodies. This effort was limited in scope because staff were focused on revising beneficial uses for selected waterbodies during the 2016 amendments.

What is still needed is a systematic review of all waterbodies in the region to determine if those waterbodies could be designated as COLD, MIGR, and SPWN based on the *Critical Habitat for Steelhead* GIS Layers. The GIS layers will enable staff to efficiently assess waterbodies that are suitable for migration, spawning, or rearing of salmonids.

*Type of Action:*
Beneficial use amendment (new or revised)

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**Issue 12: Define and Designate Tribal Uses**

*Discussion:*
Beneficial use definitions could be developed for tribal traditional and cultural fishing, tribal subsistence fishing, and subsistence fishing based on State Water Board Resolution No. 2016-0011. Waterbodies with these uses could be designated in Chapter 2.

*Type of Action:*
Beneficial Use Designation

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**Issue 13: Update Groundwater Basin Boundary Map and Table (editorial)**

*Discussion:*
In response to the Sustainable Groundwater Management Act (SGMA) of 2014, the California Department of Water Resources (DWR) modified some groundwater basin boundaries as they appeared in the 2003 edition of *California’s Groundwater - Bulletin 118*. The 2016 Interim Update of Bulletin 118 (http://www.water.ca.gov/groundwater/sgm/basin_boundaries.cfm) affected the following Central Coast region groundwater basin boundaries:

- 3-01 SOQUEL VALLEY
- 3-02 PAJARO VALLEY
- 3-03.01 GILROY-HOLLISTER VALLEY - LLAGAS AREA
- 3-04.01 SALINAS VALLEY - 180/400 FOOT AQUIFER
- 3-04.08 SALINAS VALLEY - SEASIDE AREA
- 3-04.09 SALINAS VALLEY - LANGLEY AREA
- 3-04.10 SALINAS VALLEY - CORRAL DE TIERRA AREA
- 3-14 SAN ANTONIO CREEK VALLEY
- 3-21 SANTA CRUZ PURISIMA FORMATION
- 3-26 WEST SANTA CRUZ TERRACE
A revised groundwater basin map (Basin Plan Fig 2-2) and table (Basin Plan Table 2-4) are needed to be consistent with the 2016 edition of Bulletin 118.

*Type of Action:*  
Editorial correction or minor clarification to the Basin Plan

**Water Quality Objectives (Chapter 3) Related Issues**

### Issue 14: Establish Turbidity WQOs for Aquatic Life Protection

**Discussion:**  
This is a carry-over issue from the 2014 Triennial Review. The Basin Plan could be amended to adopt numeric water quality objectives for several Basin Plan narrative water quality objectives to protect aquatic life beneficial uses.

The Basin Plan could be amended to add numeric turbidity objectives to protect COLD and WARM beneficial uses. Turbidity criteria to protect from excessive sedimentation (e.g., 100 NTU) and to ensure that aquatic life can search for food (25 to 40 NTU) are also needed. Numeric turbidity objectives are also needed to protect threatened and endangered anadromous fish in waterbodies designated for spawning (SPWN) and migration (MIGR). Since turbidity levels naturally fluctuate, such as during storm events, turbidity water quality objectives may be best expressed in ranges, seasonally, and/or with allowable occasions of exceedance, to mimic natural storm conditions.

The Basin Plan needs aquatic life objectives to establish spawning gravel and pool depth turbidity duration curves and flow passage requirements for upstream and downstream migration. The 2013 *South-Central California Coast Steelhead Recovery Plan* written by the National Marine Fisheries Service provides a wealth of information on these parameters, including some water quality requirements and identification of critical habitat areas: [http://www.westcoast.fisheries.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/south_central_southern_california_coast/south_central_southern_california_coast_recovery_plan_documents.html](http://www.westcoast.fisheries.noaa.gov/protected_species/salmon_steelhead/recovery_planning_and_implementation/south_central_southern_california_coast/south_central_southern_california_coast_recovery_plan_documents.html).

*Type of Action:*  
Water quality objective amendment

### Issue 15: Revise Dissolved Oxygen WQOs for Aquatic Life Protection

**Discussion:**  
This is a carry-over issue from the 2014 Triennial Review. The Basin Plan could be amended to adopt numeric water quality objectives for several Basin Plan narrative water quality objectives to protect aquatic life beneficial uses.
The Basin Plan needs revised dissolved oxygen objectives to account for ambient conditions, including daily and seasonal fluctuations. The Basin Plan needs dissolved oxygen objectives for COLD and WARM beneficial uses in percent saturation in addition to the existing objectives expressed as a concentration in mg/L.

*Type of Action:*
Water quality objective amendment

<table>
<thead>
<tr>
<th>Issue 16: Establish Temperature WQOs for Aquatic Life Protection</th>
</tr>
</thead>
</table>

*Discussion:*
This is a carry-over issue from the 2014 Triennial Review. The Basin Plan could be amended to adopt numeric water quality objectives for several Basin Plan narrative water quality objectives to protect aquatic life beneficial uses.

The Basin Plan temperature objectives could be amended to account for ambient conditions, including daily and seasonal fluctuations, as well as temperature objectives for the protection of COLD and WARM beneficial uses.

*Type of Action:*
Water quality objective amendment

<table>
<thead>
<tr>
<th>Issue 17: Establish Nitrate WQOs for Aquatic Life Protection</th>
</tr>
</thead>
</table>

*Discussion:*
This is a carry-over issue from the 2014 Triennial Review. The Basin Plan could be amended to adopt numeric water quality objectives for several Basin Plan narrative water quality objectives to protect aquatic life beneficial uses.

The Basin Plan needs a numeric nitrate objective to protect aquatic life. This objective may be distinctly different from a nitrate objective to prevent biostimulation.

*Type of Action:*
Water quality objective amendment

<table>
<thead>
<tr>
<th>Issue 18: Establish Additive Toxicity WQOs for Aquatic Life Protection</th>
</tr>
</thead>
</table>

*Discussion:*
This is a carry-over issue from the 2014 Triennial Review. The Basin Plan could be amended to adopt numeric water quality objectives for several Basin Plan narrative water quality objectives to protect aquatic life beneficial uses.

The Basin Plan needs a narrative objective to protect aquatic life from additive toxicity, similar to the narrative objective in the Central Valley Basin Plan.
**Type of Action:**
Water quality objective amendment

### Issue 19: Revise WQOs for Site-specific Surface Waters in Table 3-5

#### Discussion:
This is a carry-over issue from the 2014 Triennial Review. Site-specific surface water quality objectives for salts (namely, for chloride, sulfate, boron, sodium, nitrate, and total dissolved solids) are found in Table 3-5, *Mean Surface Water Objectives.*

These objectives could be improved by associating them with specific beneficial uses at proper thresholds that protect those uses; Table 3-5 objectives should be linked to specific beneficial uses, such as municipal and domestic supply (MUN).

The Table 3-5 water quality objectives do not necessarily represent the baseline condition of these particular waters, which makes it difficult to prevent further degradation as required by the Anti-degradation Policy (i.e., maintain the highest water quality that existed since 1968). Ideally, the Basin Plan objectives for specific receiving waters could be based on site-specific, historical data, which does not exist in most cases in the Central Coast Region. Where historical data is lacking, to be protective of water quality, these objectives could be based on data that represents the most recent, statistically-viable baseline.

Table 3-5 could be expanded to include site-specific numeric water quality objectives for pesticides, pH, phosphorous, nickel, chromium, and specific salts. Some watersheds in the Central Coast Region contain naturally high levels of pH, phosphorous, nickel, chromium, sodium, and chloride.

Some Hydrologic Units (HU) need more specificity. Under Santa Ynez, “Solvang” could be revised to “Santa Ynez River near Solvang”, “Lompoc” could be revised to “Santa Ynez River near Lompoc”, and “Santa Ynez River above Cachuma Reservoir” could be added.

The following waterbodies could be added to Table 3-5 and site-specific water quality objectives could be developed:

- Under Santa Maria HU, add “Santa Maria River”
- Under Salinas River HU add “above Nacimiento River”
- Under Santa Lucia HU add “Big Creek” and “Willow Creek”
- Under Pajaro River HU add “Uvas Creek” and “Tres Pinos”
- Add South Coast HU and subareas (Jalama Salts TMDL is a great resource for this)

Language could be added to exclude the tidally-influenced segments of surface waters, since the WQOs in Table 3-5 may not be appropriate for these segments due to their higher salinity levels. The added language could state that surface WQOs in Table 3-5 are not applicable to the tidally-influenced portions of the stream or river. As an example, the following waterbodies are currently on the 303(d) List for salts or pH (or both), but the impaired reach is limited on the 303(d) List to the tidally-influenced segment:

- Old Salinas River
- Scott Creek Lagoon
• Waddell Creek Lagoon
• Pajaro River below Highway 1

In addition, the following sentence in section 3.3.3 (second paragraph) could be clarified or deleted: “Specific water quality objectives for a particular area may not be directly related to the objectives indicated.” This clarification is needed to avoid placing portions of waterbodies on 303(d) List solely because of the high salt concentrations in the tidally-influence segments.

**Type of Action:**
Water quality objective amendment

**Issue 20: Revise WQOs for Site-specific Groundwaters in Table 3-6**

**Discussion:**
This is a carry-over issue from the 2014 Triennial Review. Site-specific groundwater quality objectives for salts (namely, for chloride, sulfate, boron, sodium, nitrate, and total dissolved solids) are found in Table 3-6, *Median Groundwater Objectives.*

These objectives could be improved by associating them with specific beneficial uses at proper thresholds that protect those uses; Table 3-6 objectives could be linked to specific beneficial uses, such as municipal and domestic supply (MUN).

In addition, Table 3-6 could be expanded to cover all groundwater basins in the Central Coast Region and to also include minimum and maximum objective values.

**Type of Action:**
Water quality objective amendment

**Issue 21: Revise WQOs to be as Protective as Federal Criteria**

**Discussion:**
Federal regulations at 40 CFR 131.20(a) require states to review their water quality standards in comparison to Clean Water Act section 304(a) criteria as new information becomes available. Water Quality objectives in Basin Plan Chapter 3 or in effect under the California Toxics Rule that are not as protective as the USEPA nationally-recommended criteria need to be updated.

For example, USEPA promulgated new and revised human heath water quality criteria in 2015 (Federal Register 80(124):36986-36989). This ruling established new water quality criteria for seven pollutants that are not in the California Toxics Rule (Arsenic, Chloroform, 3-Methyl-4-Chlorophenol, 1,1,1-Trichloroethane, 1,2,4-Trichlorobenzene, Selenium, and Zinc). The 2015 ruling contains revised water quality criteria that are more stringent than the California Toxics Rule for 64 pollutants. In addition the 2015 ruling contains revised water quality criteria that are less stringent than the California Toxics Rule for 19 pollutants.

**Type of Action:**
Water quality objective amendment
Issue 22: Develop Water Flow Objectives

Discussion:
Develop narrative WQOs in the Basin Plan to address critical flows necessary for the protection of beneficial uses.

Type of Action:
Water quality objective amendment

Issue 23: Revise Pesticides Objective

Discussion:
The narrative pesticide water quality objective in section 3.3.2.1 should not be limited to only chlorinated hydrocarbon pesticides. Language could be revised to include all pesticides as follows:

“…total identifiable chlorinated hydrocarbon pesticides shall not be present at concentrations detectable within the accuracy of analytical methods prescribed in…”

Type of Action:
Water quality objective amendment

Issue 24: Update Agricultural Supply WQOs in Table 3-1

Discussion:
WQOs could be updated to protect agricultural supply waters (AGR) in Table 3.1 Guidelines for Interpretation of Quality of Water for Irrigation using either or both of the following:


(2) the 2006 UC publication by Stephan Grattan “Agricultural Salinity and Drainage.” http://hos.ufl.edu/sites/default/files/faculty/gdliu/HansonGrattan2006_0.pdf

Type of Action:
Water quality objective amendment

Issue 25: Incorporate Secondary Drinking Water Standards as WQO’s

Discussion:
Currently, the Basin Plan incorporates primary drinking water standards as WQOs by reference to Title 22 of the California Code of Regulations (CCR). These WQOs for inorganic and organic chemicals (22 CCR sections 64431 and 64444, respectively) were established to protect municipal and domestic supply (MUN) uses in surface and ground waters.
WQOs in sections 3.3.2.2 and 3.2.4.2 of the Basin Plan could be revised to also incorporate secondary drinking water standards. Secondary drinking water standards include maximum contaminant levels for tastes and odors, including threshold levels for total dissolved solids (TDS), chloride, sulfate, and other constituents. Secondary drinking water standards are incorporated as WQOs in other Water Board regions.

**Type of Action:**
Water quality objective amendment

**Issue 26: Revise Aquatic Life Mercury Objective (editorial)**

**Discussion:**
On May 2, 2017, the State Water Board adopted Resolution No. 2017-0027, which includes statewide mercury WQOs. This action specifically superseded mercury water quality objectives in the Central Coastal Basin Plan Table 3-3 “Toxic Metal Concentrations not to be Exceeded in Aquatic Life Habitats.” The following text in the footnote of Table 3-3 was superseded and needs to be removed:

“maximum acceptable concentration of total mercury in any aquatic organism is a total body burden of 0.5 μg/g wet weight.”

The mercury body burden objective in the footnote to Basin Plan Table 3-4 (marine waters) will remain.

**Type of Action:**
Editorial correction or minor clarification

**Issue 27: Correct Table 3-3 Header (editorial)**

**Discussion:**
Change header in Table 3-3 “Toxic Metal Concentrations not to be Exceeded in Aquatic Life Habitats” to include a less-than-or-equal-to symbol in the “SOFT” water column. Currently, and since 1975, only a less-than symbol is in place. The correct header would read as follows: “SOFT, ≤ 100 mg/L CaCO₃.” This correction is based on cadmium criteria guidelines in the 1972 USEPA Blue Book cadmium criterion for fish spawning where “Hard water is defined as water exceeding 100 mg/L.”

**Type of Action:**
Editorial correction or minor clarification.
**Implementation (Chapter 4) Related Issues**

<table>
<thead>
<tr>
<th>Issue 28: Establish Prohibitions on Unpermitted Discharges</th>
</tr>
</thead>
</table>

**Discussion:**
This is a carry-over issue from the 2014 Triennial Review. The California Water Code provides authority to the Regional Water Boards to specify certain conditions or areas where the discharge of waste, or certain types of waste, is not permitted (section 13243). Additionally, the California Water Code provides authority to the Regional Water Boards to take enforcement actions in response to violations of Basin Plan prohibitions (section 13350). Currently, staff cannot take effective enforcement for some cases due to absence of adequate prohibitions.

The main example of a case for which the absence of a prohibition limits enforcement authority for the Central Coast Water Board is the following: if a person is found discharging waste without a permit, the Central Coast Water Board can only take enforcement after written notification and with the first day of the violation when the notice is provided (pursuant to California Water Code section 13260). If the Basin Plan contained a prohibition against discharging without a permit, the Central Coast Water Board could take enforcement action that accounts for the time period the person was discharging without a permit.

The Basin Plan could be amended to add additional prohibitions to enhance the Central Coast Water Boards’ authority to use enforcement for more cases that would result in better protection and/or mitigations for illegal discharges. Central Coast Water Board staff could consider the prohibitions currently found in the San Diego Region Basin Plan. For example, prohibitions in the San Diego Region Basin Plan that prohibit discharges of waste without a permit are as follows:

- The discharge of waste to land, except as authorized by WDRs or the terms described in California Water Code section 13264 is prohibited.

- The discharge of pollutants or dredged or fill material to waters of the United States except as authorized by an NPDES permit or a dredged or fill material permit (subject to the exemption described in California Water Code section 13376) is prohibited.

The prohibitions in the San Diego Region Basin Plan are in Chapter 4, Page 16, and can be found on the webpage for the San Diego Regional Water Quality Control Board at this link: [http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/docs/update082812/Chpt_4_2012.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/docs/update082812/Chpt_4_2012.pdf)

**Type of Action:**
Implementation amendment (new or revised)

<table>
<thead>
<tr>
<th>Issue 29: Edit the Land Disturbance Prohibition</th>
</tr>
</thead>
</table>

**Discussion:**
This is a carry-over issue from the 2014 Triennial Review. An amendment to the Basin Plan is needed section 4.8.5.1, *Land Disturbance Prohibitions*, as follows:
The discharge or threatened discharge of soil, silt, bark, slash, sawdust, or other organic and earthen materials into any stream waters of the state in the basin in violation of best management practices...and in quantities deleterious to fish, wildlife, and other beneficial uses is prohibited.

‘Stream’ in the quoted section would be changed to ‘waters of the state.’

This would expand Central Coast Water Board authority to apply this prohibition to many waterbodies not currently afforded such. This change would allow the Central Coast Water Board to prohibit these discharges to wetlands, lakes, estuaries and the ocean – not just to streams.

**Type of Action:**
implementation amendment (new or revised)

### Issue 30: Revise Sections Now Regulated by the Ag Order

**Discussion:**
An update of the Basin Plan is needed to remove or revise outdated implementation sections that are currently regulated by the 2017 Conditional Waiver of Waste Discharge Requirements for Discharges From Irrigated Lands (Order No. R3-2017-0002, i.e., the Ag Order). The following Basin Plan sections should be revised:

- Sec. 4.6.1.4.1 Wastewater Disposal (nitrate removal & percolation basins),
- Sec. 4.8.3 Agricultural Water and Wastewater Management,
- Sec. 4.8.3.3 Irrigation Operations - Need for Salt Management
- Sec. 4.8.3.4 Improved Salt Management Techniques
- Sec. 4.9 Total Maximum Daily Loads (several)
- Sec. 5.6.5 Waiver of Waste Discharge Requirements

Implementation of mushroom farm operations (section 4.8.3.5) area regulated by individual waste discharge requirements, not by the Ag Order, so the section addressing mushroom farm operations should remain in the Basin Plan.

**Type of Action:**
New or revised policy

### Issue 31: Correct Outdated References Title 22 Hazardous Wastes (editorial)

**Discussion:**
The Basin Plan currently cites an outdated section of Title 22 of the California Code of Regulations (CCR). Sections 66300 - 67100 of Title 22 were repealed, effective 7-1-91. Edits to the Basin Plan are needed to replace the following outdated references to Title 22 in with the appropriate citations from the CCR.

Basin Plan section 4.6.4 was added via R3-89-04 and includes the following:
"Wastes are considered hazardous if they meet the criteria defined in CCR Title 22, Section 66300. Examples of wastes that are considered hazardous include:..."

The correct citation for the above is likely 22 CCR 66261.3 - Definition of Hazardous Waste.

Basin Plan section 4.6.11.4 was added via R3-1994-0001 and includes the following:

"Cement Industry -- Concrete manufacturing operations generate two significant types of solid waste, kiln dust and "off-specification" concrete. The first, kiln dust, is classified as a designated waste under Title 22 and is typically disposed of in Class II or III landfills operated by the concrete manufacturers."

The correct citation for the above is likely 22 CCR 66261.120 – List of Special Wastes, which includes cement kiln dust. Also, section 13173 of the California Water Code defines “designated wastes.”

**Type of Action:**
Editorial correction or minor clarification

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**Issue 32: Revise Bay Protection and Toxic Cleanup Program Section (editorial)**

**Discussion:**
Section 4.6.6 “Bay Protection and Toxic Cleanup Program” cites 17 potential toxic hot spots in the Central Coast Region. These hot spots are listed in Appendix A-31.

The Bay Protection and Toxic Cleanup Program (BPTCP) no longer exists at the State Water Board’s Division of Water Quality. California Water Code section 13394 required the State Water Board and the Regional Water Boards to develop Regional and Consolidated Toxic Hot Spot Cleanup Plans by June 30, 1999. In 2001, the State Water Board began a process to develop sediment quality objectives (SQOs) pursuant to the California Water Code section 13393. This law requires the State Water Board to adopt SQOs for toxic pollutants that have been identified in toxic hot spots in the State’s bays and estuaries as part of the BPTCP or that have been identified as pollutants of concern. State Water Board Resolution No. 2008-0057 allocated funding to begin development of SQOs for bays and estuaries.

Section 4.6.6 could be amended to reflect these events.

**Type of Action:**
Editorial correction or minor clarification

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**Issue 33: Revise List and Map of Active Military Installations (editorial)**

**Discussion:**
Section 4.6.7 of the Basin Plan reads as follows:

"Active military installations in the Region addressed by the U.S. Department of Defense Program (current as of 1993) include Fort Ord, Presidio of Monterey, Monterey Naval Post Graduate..."
This list of active installations and Fig. 4-1 “Active Military Installations” could be revised by removing Fort Ord and any other inactive military installations.

Type of Action:
Editorial correction or minor clarification

Issue 34: Add Statewide Containment Zone Policy (editorial)

Discussion:
Section 4.6.8 “Spills, Leaks, Investigations and Cleanup Program” addresses water quality problems and potential problems resulting from discharges not covered by other State programs. This section cites State Water Board Resolution No. 92-49 (Policies and Procedures for Investigation and Cleanup and Abatement of Discharges Under Water Code Section 13304).

This section could be expanded to also cite State Water Board Resolution No. 96-079 (Containment Zone Policy amendment of SB Resolution No. 92-49).

Type of Action:
Editorial correction or minor clarification

Issue 35: Update Section 4.10 TMDL List (editorial)

Discussion:
Section 4.10 contains a list of TMDLs established by actions other than a Basin Plan amendment. Table 4.10-1 requires updating as follows (updates shown in underline-strikeout format):

<table>
<thead>
<tr>
<th>Approval Date</th>
<th>Resolution No.</th>
<th>USEPA Approval Date</th>
<th>Name of TMDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/03/2004</td>
<td>R3-2004-0166</td>
<td>Pending</td>
<td>TMDL and Implementation Plan for Dissolved Oxygen in Dairy Creek. RB3 approved.</td>
</tr>
<tr>
<td>11/19/2015</td>
<td>R3-2015-0032</td>
<td>Pending</td>
<td>TMDL for Nitrate in Streams of the San Antonio Creek Watershed, Santa Barbara County.</td>
</tr>
</tbody>
</table>

Type of Action:
Editorial correction or minor clarification
Plans and Policies (Chapter 5) Related Issues

Issue 36: Address Discharge Prohibitions for Inland Waters

Discussion:
Section 5.4.2 contains discharge prohibitions to inland waters. Paragraph 4 of this section is reproduced below:

5.4.2 Inland Waters
Wastes discharged to surface waters shall be essentially free of toxic substances, grease, oil, and phenolic compounds.

Waste discharges to the following inland waters are prohibited:

...4. All coastal surface streams and natural drainageways that flow directly to the ocean within the Big Basin, Santa Lucia, Estero Bay (from the Monterey County line to the northern boundary of San Luis Obispo Creek drainage), and the South Coast Hydrologic Units except where discharge is associated with an approved wastewater reclamation program.
...

New supply wells drilled in coastal areas sometimes need to discharge test/development water from the wells. Such water may cause toxicity to surface water aquatic life. A discharge into these coastal area drainageways may occur if the exception requirements in the Basin Plan are met (section 5.4.6).

The Basin Plan prohibitions in 5.4.2 could be modified to allow short-term discharge of supply well test water.

Type of Action:
New or revised policy

Issue 37: Incorporate State Implementation Policy and CA Toxics Rule (editorial)

Discussion:
The State Water Board has adopted a number of plans and policies for statewide water quality management. The list of these plans and policies in Chapter 5 is outdated and could be updated to include all applicable and current statewide plans and policies.

A new paragraph could be added as section 5.1.14 to incorporate the “Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California” (a.k.a. State Implementation Policy or SIP) as follows (updates shown in underline-strikeout format):

5.1.14 State Implementation Policy
The Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (a.k.a. State Implementation Policy or SIP) was adopted by the State Water Resources Control Board in March 2000 via State Water Board Resolution No. 2000-0015 and amended in February 2005 via State Water Board Resolution No. 2005-0019. The State Implementation Policy establishes the following:
1. Implementation provisions for priority pollutant criteria promulgated by the USEPA through:
   a. The National Toxics Rule (40 CFR 131.36) promulgated on December 22, 1992 and amended on May 4, 1995, and
   b. The California Toxics Rule (40 CFR 131.38) promulgated on May 18, 2000 and amended on February 13, 2001;

2. Monitoring requirements for 2,3,7,8-TCDD equivalents; and

3. Chronic toxicity control provisions.

**Type of Action:**
Editorial correction or minor clarification

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**Issue 38: Incorporate Newer Statewide Policies (editorial)**

**Discussion:**
The State Water Board has adopted a number of plans and policies for statewide water quality management. The list of these plans and policies in Chapter 5 is outdated and could be updated to include the following applicable and current statewide policies:

<table>
<thead>
<tr>
<th>New Section No.</th>
<th>SWRCB Resolution No.</th>
<th>Statewide Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.15</td>
<td>2002-0040</td>
<td>Water Quality Enforcement Policy</td>
</tr>
<tr>
<td>5.1.16</td>
<td>2004-0063</td>
<td>Policy for Developing California's Clean Water Act Section 303(d) list</td>
</tr>
<tr>
<td>5.1.17</td>
<td>2005-0050</td>
<td>Water Quality Control Policy for Addressing Impaired Waters: Regulatory Structure and Options</td>
</tr>
<tr>
<td>5.1.18</td>
<td>2008-0025</td>
<td>Policy for Compliance Schedules in National Pollutant Discharge Elimination System Permits</td>
</tr>
<tr>
<td>5.1.19</td>
<td>2009-0011</td>
<td>Policy for Water Quality Control for Recycled Water</td>
</tr>
</tbody>
</table>

**Type of Action:**
Editorial correction or minor clarification

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**Issue 39: Incorporate Statewide Nonpoint Source Policies (editorial)**

**Discussion:**

The 1988 NPS Plan was superseded, however, by more recent statewide nonpoint source control policies. Section 5.1.10 could be updated to include the following applicable and current statewide policies [http://www.waterboards.ca.gov/water_issues/programs/nps/plans_policies.shtml](http://www.waterboards.ca.gov/water_issues/programs/nps/plans_policies.shtml):

1. Policy for Implementation and Enforcement of the Nonpoint Source Pollution Control Program (May 20, 2004); and

*Type of Action:*  
Editorial correction or minor clarification

**Issue 40: Add Monterey Bay Prohibition Zone Map (editorial)**

*Discussion:*  
Section 5.4.3 describes the areal extent of the Monterey Bay Prohibition Zone, where waste discharges are prohibited. This prohibition zone is also mentioned in section 6.5.2.  

A map of this prohibition zone is needed to help visualize the extent of the described area.

*Type of Action:*  
Editorial correction or minor clarification

**Issue 41: Delete San Lorenzo Valley Certification of 1986 (editorial)**

*Discussion:*  
Section 5.6.3, reproduced below, is outdated and unnecessary and should be deleted (as shown in underline-strikeout format below).

5.6.3 San Lorenzo Valley  
Resolution 87-04 (Appendix A-21): Certification of Santa Cruz County’s Wastewater Management Program for the San Lorenzo River Watershed. This policy certifies Santa Cruz County’s Wastewater Management Program for the San Lorenzo Valley is adequate to satisfy the loan condition authorized by Chapter 962 of the 1986 State Statutes.

*Type of Action:*  
Editorial correction or minor clarification

**Issue 42: Consolidate Livestock Waste Prohibitions (editorial)**

*Discussion:*  
Currently, there are two areas in the Basin Plan that contain site-specific prohibitions on livestock waste discharges:

1. Section 4.8.5.6 Watsonville Slough Watershed Livestock Waste Discharge Prohibition  
2. Section 5.4.2.1 Domestic Animal Waste Discharge Prohibition

These sections could be consolidated by deleting 4.8.5.6 entirely, and amending section 5.4.2.1 as follows (shown in underline-strikeout format):
5.4.2.1 Domestic Animal Waste Discharge Prohibition
Discharges containing fecal material from domestic animals to the waters of the State that cause
or contribute to exceedance of water quality objectives in the areas listed below are prohibited.
Examples of domestic animals include, but are not limited to, horses, cattle, goats, sheep, dogs,
cats or any other animal(s) in the care of any person(s).

1. Pajaro River Watershed.
2. Soquel Lagoon Watershed.
3. Aptos Creek Watershed.
5. Corralitos/Salsipuedes Creek Watershed.
6. Lower Salinas River Watershed (the watershed area of the Salinas River from Gonzales
   Road downstream to its confluence with Moss Landing Harbor).
7. Santa Maria River Watershed (including Oso Flaco Creek subwatershed).
8. Watsonville Slough Watershed

Delete “Watsonville Slough Watershed Livestock Waste Discharge Prohibition” from the list at
5.4.5 (Other Specific Prohibition Subjects).

Edit the TMDL for Pathogens in Watsonville Slough in section 4.9.7 as follows:

The Following Actions Will Reduce Fecal Coliform Bacteria Loading From Livestock And Land-
Applied Non-Sterile Manure:

Livestock Sources
Operators or owners of livestock facilities and animals must comply with the proposed
Watsonville Slough Watershed Livestock Waste Discharge Prohibition (see Domestic Animal
Waste Discharge Prohibitions in section 5.4.2.1) to implement their load allocations…

Type of Action:
Editorial correction or minor clarification

Issue 43: Update Categorical Discharge Waiver Language (editorial)

Discussion:
Section 5.6.5 (Waiver of Waste Discharge Requirements) contains outdated language regarding
categorical discharge waivers. The waivers described in this section and enumerated in
Appendix A-23 (Waiver of Regulations of Specific Types of Waste Dischargers) and Appendix
A-17 are now expired. California Senate Bill 390 (1999) required all waivers to expire on
January 1, 2002. All new wavers must have a five year lifetime.

To comply with SB 390, the Regional Water Boards adopted new waivers to regulate most of
the categorical discharges. In the Central Coast Region, the first general waiver was R3-2002-
0015 (Waiver Policy, Waiver of Waste Discharge Requirements for Specific Types of
Discharges). The staff report accompanying this resolution stated that “Regional Board staff
proposes to delete out-dated sections of the Basin Plan (Chapter Five and Appendices) in
2003.” This has not yet occurred.

A second general waver was issued under R3-2008-0041, while the third and current general
waver was issued under R3-2014-0041 (General Waiver For Specific Types of Discharges).
Type of Action:
Editorial correction or minor clarification

Issue 44: Delete Unnecessary Section 5.6.6 and Appendix A-25 (editorial)

Discussion:
Basin Plan section 5.6.6 cites Appendix A-25, which is Central Coast Water Board Resolution No. R3-93-04 (Appreciation for Discharger Compliance). This resolution “addresses the manner in which the Regional Board will protect water quality protection and improvement at the most cost effective manner to society.” The resolution resolves the following five items:

1. The Board will maintain a significant level of field surveillance with a primary goal of early detection of threats to water quality and needed corrective actions, in addition to verification of on-going compliance with requirements.

2. The Board will require dischargers to do what is necessary for water quality protection and regulatory compliance, without asking for more than what is needed to do the job. Where applicable, general permits or waivers of requirements will be used.

3. In situations where staff is asking for discharger actions that go beyond regulatory minima (e.g., areas of regulatory ambiguity relying more on professional judgement, or where resources require protection beyond bare regulatory minima) the Board’s staff will provide justification for its requests.

4. Staff will request technical and monitoring reports to the extent that they are required by the situation and will ensure that the burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports.

5. Staff will try to consolidate requests and encourage dischargers to consolidate reports or cross reference reports to accomplish reporting in the most cost effective manner. Time schedules may be adjusted to accommodate this goal as long as water quality or public health protection are not compromised.

Although, Central Coast Water Board staff continue to appreciate discharger compliance, the five resolved items in the resolution are unnecessary, somewhat vague, and superseded by California Water Code section 13267 procedures, the State Water Board Enforcement Policy, and the State Water Board Compliance Schedules Policy. Because of this, section 5.6.6 and Appendix A-25 could be deleted.

Type of Action:
Editorial correction or minor clarification
Monitoring and Assessment (Chapter 6) Related Issues

Issue 45: Update Monitoring and Assessment Chapter

Discussion:
Most language in Chapter 6 was current in 2002, the date of the last major amendment to this chapter. All language in Chapter 6 could be updated except section 6.5.1.4 (Groundwater Ambient Monitoring and Assessment, GAMA), which was updated in 2016. Some state monitoring programs mentioned in the chapter no longer exist (e.g., State Mussel Watch).

Type of Action:
Water quality surveillance and monitoring amendment

Issues Related to All Basin Plan Chapters


Discussion:
This is a carry-over issue from the 2014 Triennial Review. As indicated in Table 1, substantial progress was made by staff since the 2014 Triennial Review. However, staff proposes to expand this issue to more appropriately address long-term sustainable water resource management in light of increasing climate change pressures.

The Central Coast Region’s water resources are affected by various land uses, land development practices, waste discharges, water usage, and climate change. Climate change affects all aspects of water management and underscores the critical need for agencies to develop and implement sustainable water resource management policy. Time is of the essence, especially for the Central Coast, which relies extensively on groundwater for drinking water supplies. The current Basin Plan is not consistent with various laws and policies that support sustainable water management, such as the Sustainable Groundwater Management Act and the State Water Board policy regarding recycling, respectively. Water quality and water supply are intrinsically connected, and cannot be effectively managed as separate issues. For this Basin Plan amendment, staff will develop sustainable water management principles consistent with state law and State Water Board policy, and define implementation actions consistent with these principles and the Central Coast Water Board's authority.

As examples of principles, the Local Government Commission has developed Water Principles and Climate Change Principles that overlap with State Water Board policies and directives. Staff will consider these and other examples in developing this Basin Plan amendment.

Moreover, these issues are beginning to be addressed through integrated water management efforts by local agencies, such as the Santa Ana Watershed Project Authority, Santa Clara Valley Water District, Greater Los Angeles County, Sonoma County Water Agency and others. Staff will review and consider these types of efforts.

Staff will build on the work they have already done to identify and prioritize factors affecting those watershed processes (e.g., base flow in streams, groundwater recharge, aquatic habitat)
that are critical to water quality and water supply, and expand the effort to address additional
factors that are critical to sustainable water resource management (e.g., recycling, groundwater
recharge protection, stormwater capture and re-use, zoning/ordinances, etc.). Some Water
Board programs, such as the stormwater program, have already made significant
advancements in this area, and staff will use these advancements to develop this Basin Plan
amendment.

Type of Action:
Beneficial use amendment (new or revised)
Water quality objective amendment (new or revised)
Implementation amendment (new or revised)
New or revised policy

Issue 47: Ocean Protection

Discussion:
This is a carry-over issue from the 2014 Triennial Review. The Central Coast Region’s
watersheds drain directly to the Pacific Ocean. Rivers and streams that travel from upland
areas to the ocean carry and discharge many pollutants. The Central Coast Ambient Monitoring
Program (CCAMP) has collaborated with researchers from U.C. Davis and the California
Department of Fish and Wildlife to investigate linkages between marine mammal deaths and
loading of land-based pollutants to the ocean. In addition, CCAMP and the Surface Water
Ambient Monitoring Program (SWAMP) have evaluated coastal confluences for pollutants and
associated toxicity, and coastal fish and shellfish tissue concentrations for chemical
concentrations of concern. These evaluations support the following:

- Dozens of sea otter deaths have been linked to microcystin toxicity. Microcystin is
  associated with freshwater blue-green algae species and causes severe liver toxicity.
  Otter deaths suggest that animals and humans are at risk from microcystin poisoning
  when consuming shellfish harvested at the land-sea interface.¹

- Sea otters in California are commonly infected with *Toxoplasma gondii*, believed to
come from feline fecal contamination flowing from land to sea through surface runoff;
otters can be infected through filter-feeding marine invertebrates.²

Harmful Algal Bloom: Cyanotoxin (Microcystin) Transfer from Land to Sea Otters. PLoS ONE 5(9):
e12576. doi:10.1371/journal.pone.0012576,
http://www.plosone.org/article/info%3Adoi/10.1371/journal.pone.0012576

Toxoplasma gondii in a wild mussel and terrestrial carnivores from coastal California: New linkages
between terrestrial mammals, runoff and toxoplasmosis of sea otters. International Journal for
Parasitology 38(11):1319-28. Epub 2008 Feb 26,
http://www.ccamp.org/ccamp/documents/Miller_2008_TypeX.pdf
• A survey of contaminants in coastal sport fish tissue has indicated that methylmercury accumulation is of high concern and PCBs reached levels of moderate concern in the Central Coast Region.³

• CCAMP modeling of nutrient loading from larger agricultural watersheds shows that upland areas are a large source of nitrate, ammonium, and other nutrients to estuarine and marine waters.⁴ Areas of locally high nutrient concentrations may play a role in algal bloom initiation; a 5-year study is currently underway to investigate bloom “hot spots” in association with upwelling and coastal land use (http://oceandatacenter.ucsc.edu/MBHAB/hotspots/). Studies by Elkhorn Slough Estuarine Research Reserve show highly eutrophic waters in areas of Elkhorn Slough, an important Marine Protected Area, with very high concentrations of nutrients entering the Reserve on incoming tides from adjacent watershed discharge.⁴ Eutrophication and associated decay of algal blooms is linked in some areas to ocean acidification.⁵

The sources of these contaminants are urban and agricultural areas in the Central Coast Region, where wastewater treatment facilities, stormwater drainage facilities, power plants, desalination facilities, roads, and irrigated agriculture impact the ocean through discharges of pollution or wastes, even though many of these waste streams and pollution loads are treated and/or permitted to minimize impacts. Furthermore, population increases and desire to live in coastal communities in California further pressures the ocean with potential impacts of urban development (increased pollution loading and hydrologic and geomorphic changes to streams and coastlines).

In March 2012, the Center for Ocean Solutions published a report titled: Why Ocean Acidification Matters to California, and What California Can Do About It: A Report on the Power

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of California’s State Government to Address Ocean Acidification in State Waters. 6 This report explains the science and evidence of ocean acidification and recommends legal and policy options that can address the problems. In addition to explaining the classic cause of ocean acidification, i.e., atmospheric carbon dioxide, the report also explains indirect drivers of ocean acidification. This includes nutrient runoff, which plays an important role in altering marine carbonate chemistry. Nutrient pollution causes local acidification through feedback loops involving biological growth, metabolism, and decay, over and above that which would occur in the absence of nutrient input from humans. These processes use more oxygen than they produce, causing oxygen minimum zones (“dead zones”), and resulting in locally-acidified waters. More acidic, lower-oxygen waters are likely to have both chronic and acute environmental impacts, including a decline in biomass productivity important to fisheries.

The California Water Code provides the State and Regional Water Boards with comprehensive authority to address all factors and activities that affect water quality, including ocean water quality. Water Code section 13050(i) states that “water quality control” means the regulation of any activity or factor which may affect the quality of the waters of the state (emphasis added). However, the current Basin Plan does not comprehensively address all factors and activities that affect ocean water quality.

The authority and implementation programs currently provided in the Basin Plan focus primarily on controlling specific pollutant discharges from facilities, urban areas, and agricultural areas and support some beneficial uses (e.g., establishing effluent limits in waste discharge requirements for the discharge that ensure receiving waters meet municipal and domestic drinking water supply water quality objectives). However, these existing authorities and implementation programs do not fully address impacts to the ocean.

Modifications to Basin Plan prohibitions, objectives, implementation conditions, policies, guidelines, and incentives would better address the highest priority factors and activities to improve the Central Coast Water Board’s protection and restoration of the quality of and beneficial uses of the ocean.

For example, the Central Coast Water Board could 1) strengthen existing water quality standards for marine and estuarine waters to reflect current information on nutrients and carbonate chemistry parameters, including pH; 2) develop criteria for other parameters related to ocean acidification, such as total alkalinity and dissolved inorganic carbon; and 3) designate additional beneficial uses of coastal waters to improve ecological resilience. More stringent water quality criteria could better protect coastal ecosystems via implementation under existing National Pollutant Discharge Elimination System (permitting) and Total Maximum Daily Load (pollutant reduction) programs where existing technology-based standards are insufficient to safeguard the receiving waters. If enforced, these criteria could alleviate both the ultimate (e.g., nutrient loading) and proximate (pH change) causes of locally-intensified ocean acidification. Designating new beneficial uses for sensitive coastal waters could more quickly trigger protection from additional point source discharges and would require limiting inputs from existing dischargers.

To ensure that water quality and beneficial uses of ocean waters are fully protected and restored, staff proposes to amend the Basin Plan to develop the authority to adequately address all relevant factors and activities that affect them. Staff will investigate the most critical types and locations of ocean impacts to address and the most appropriate types of Basin Plan amendments to address these impacts. Basin Plan amendments will be tailored to best address the types and locations of impacts identified as highest priority. These amendments and follow-up actions may include prohibitions, beneficial use definitions, water quality objectives, implementation measures, policies, permit terms, guidelines, and incentives.

Concerns by Heal the Bay and the California Coastkeeper Alliance over acidification of marine waters prompted the State Water Board to include this issue in the 2011-2013 Triennial Review for the Water Quality Control Plan for Ocean Waters of California (Ocean Plan) as a high priority issue (http://www.waterboards.ca.gov/water_issues/programs/ocean/docs/trirev/trirev2011_13.pdf). State Water Board staff responded that the current Ocean Plan narrative chemical and biological water quality objectives are protective of marine aquatic life, but acknowledged that more monitoring and assessment should take place.

**Type of Action:**
Beneficial use amendment (new or revised)
Water quality objective amendment (new or revised)
Implementation amendment (new or revised)
New or revised policy

**Issue Evaluations Summary (placeholder)**

Table 3 presents the evaluation score that staff assigned for each criterion for each Triennial Review Issue considered in this report. Issues recommended for removal from the 2017 Triennial Review Priority List are indicated based on the issue discussions.
Table 3. Evaluation Criteria Scores for each Triennial Review Issue

<table>
<thead>
<tr>
<th>Issue No.</th>
<th>Issue Description</th>
<th>Vision Alignment</th>
<th>Water Qual. Std. Improvement</th>
<th>Effectiveness</th>
<th>Public Interest</th>
<th>Total Score</th>
<th>Remove from Priority List?</th>
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The ranking criteria are as follows:

- **Vision Alignment** - Does the issue align with the Central Coast Water Board’s Vision, Measurable Goals, and priorities (stated above)?
- **Water Quality Standards Improvement** - Will the issue improve water quality standards through new or revised beneficial uses or water quality objectives?
- **Effectiveness** - Will the issue advance water quality protection by improving 1) regulatory and program efficiency, or 2) legal authority to regulate activities that negatively impact water quality and watershed processes?
- **Public Interest** - Does the issue have a high perceived public interest?

All of the issues with “Yes” in the column are recommended for removal because the State Water Board is working on a parallel project.
Recommended 2017 Triennial Review Priority List (placeholder)

A prioritized list of Basin Planning projects based on the 2017 Triennial Review is presented in Table 4. The Table orders the issues from highest score/priority to lowest. Regardless of score, issues that staff recommended removing from list (mostly due to State Water Board working on a parallel issue project) are not included below.

In recent years, the State Water Board Division of Water Quality has allocated 7 to 9 personnel years (PYs) to the Central Coast Region for Basin Planning activities. However, much of this Basin Planning funding (PCA Code 40401) is routinely reallocated for other office programs such as the Irrigated Lands Agriculture, TMDL, Stormwater, Monitoring, and Nonpoint Source Programs.

Based on dedicated Basin Planning staff resources of approximately one PY per year, staff anticipates that Central Coast Water Board staff can complete Basin Plan Issue Priorities X through X over the next three years.

Table 4. Recommended Priority List of Issues to be Evaluated as Basin Plan Amendments

<table>
<thead>
<tr>
<th>Priority</th>
<th>Score</th>
<th>Issue</th>
<th>Description</th>
<th>Est. Resource Needs (PYs)</th>
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## Appendix 1. Cross Reference Table of Basin Plan Sections

Comparison of Section Headers in the 2016 and 2017 editions of the Water Quality Control Plan for the Central Coastal Basin (Basin Plan). Headers that were changed are shown in red font.

<table>
<thead>
<tr>
<th>2016 Basin Plan Header</th>
<th>2017 Basin Plan Header</th>
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<tbody>
<tr>
<td>Chapter 1. Introduction</td>
<td>Chapter 1. Introduction</td>
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<tr>
<td>I. Function of the Water Quality Control Plan (Basin Plan)</td>
<td>1.1 Function of the Water Quality Control Plan (Basin Plan)</td>
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<td>II. Legal Basis and Authority</td>
<td>1.2 Legal Basis and Authority</td>
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<tr>
<td>III. The Central Coastal Region</td>
<td>1.3 The Central Coastal Region</td>
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<tr>
<td>IV. The Regional Board</td>
<td>1.4 The Regional Board</td>
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<tr>
<td>V. History of Basin Planning and the Basin Plan</td>
<td>1.5 History of Basin Planning and the Basin Plan</td>
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<td>VI. Triennial Review and Basin Plan Amendment Procedure</td>
<td>1.6 Triennial Review and Basin Plan Amendment Procedure</td>
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<td>VI.A. Continuing Planning</td>
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<td>I. Present and Potential Beneficial Uses</td>
<td>2.1 Present and Potential Beneficial Uses</td>
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<td>II. Beneficial Use Definitions</td>
<td>2.2 Beneficial Use Definitions</td>
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<td>2.2.1 Municipal and Domestic Supply (MUN)</td>
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<td>II.C. Industrial Process Supply (PROC)</td>
<td>2.2.3 Industrial Process Supply (PROC)</td>
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<td>II.D. Industrial Service Supply (IND)</td>
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<td>II.E. Ground Water Recharge (GWR)</td>
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<td>II.U. Migration of Aquatic Organisms (MIGR)</td>
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<td>II.X. Areas of Special Biological Significance (ASBS)</td>
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# Chapter 3. Water Quality Objectives

## I. Considerations in Selecting Water Quality Objectives

### 3.1 Considerations in Selecting Water Quality Objectives

## II. Water Quality Objectives

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### 4.2 General Control Actions and Related Issues

### III. Control Actions under State Water Resources Control Board Authority

### 4.3 Control Actions under State Water Resources Control Board Authority

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##### 4.5.1.1 Water Quality Certification

##### V.A.2. National Pollutant Discharge Elimination System (NPDES)

##### 4.5.1.2 National Pollutant Discharge Elimination System (NPDES)

##### V.A.3. Waste Discharge Requirements (WDRs)

##### 4.5.1.3 Waste Discharge Requirements (WDRs)

##### V.A.4. Waivers

##### 4.5.1.4 Waivers

##### V.A.5. Prohibitions and Prohibition Exemptions

##### 4.5.1.5 Prohibitions and Prohibition Exemptions

##### V.A.6. Enforcement Actions

##### 4.5.1.6 Enforcement Actions

##### V.A.7. Best Management Practices

##### 4.5.1.7 Best Management Practices

##### V.A.8. Compliance Schedules

##### 4.5.1.8 Compliance Schedules

##### V.B. Nonpoint Source Program

##### 4.5.2 Nonpoint Source Program

### VI. Waste Discharge Program Implementation

#### 4.6 Waste Discharge Program Implementation

#### VI.A. Effluent Limits

##### 4.6.1 Effluent Limits

##### VI.A.1. Stream Disposal

##### 4.6.1.1 Stream Disposal

##### VI.A.2. Estuarine Disposal

##### 4.6.1.2 Estuarine Disposal

##### VI.A.3. Ocean Disposal

##### 4.6.1.3 Ocean Disposal

##### VI.A.4. Land Disposal

##### 4.6.1.4 Land Disposal

##### VI.A.5. Reclamation and Reuse

##### 4.6.1.5 Reclamation and Reuse

##### VI.A.6. Pretreatment Programs

##### 4.6.1.6 Pretreatment Programs

##### VI.A.7. Sludge Treatment

##### 4.6.1.7 Sludge Treatment
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<td>VI.B. Municipal Wastewater Management</td>
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