

## POLICY AND PROCEDURE

<b>POLICY TITLE:</b> <b>Water Quality Policy for Potable and Non-Potable Water</b>	<b>NUMBER:</b> <b>2014-01</b>	<b>PAGE:</b> <b>1 of 4</b>
<b>APPROVED BY:</b> <b>Zone 7 Board</b>	<b>REVISION:</b>	<b>EFFECTIVE DATE:</b> <b>April 16, 2014</b>

WHEREAS, the Zone 7 Board of Directors is committed to delivering high quality water supplies to its potable (treated drinking water) Municipal and Industrial (M&I) Contractors that meet all public health regulatory requirements; and

WHEREAS, the Board endeavors to, in a manner that is fiscally responsible, proactive, and environmentally sensitive, deliver potable water that is aesthetically acceptable to its M&I Contractors; and

WHEREAS, the Board endeavors to provide potable water of an approximately equal quality within its operational capabilities to each M&I Contractor without diminishing existing water quality at any Contractors' turnouts; and

WHEREAS, the Board endeavors to provide non-potable water of an appropriate quality for its untreated water users from current surface and ground water supplies, and as a blended source of untreated and recycled water, when available; and

WHEREAS, the Board on April 16, 2003 adopted Resolution No. 03-2494 setting forth its Water Quality Policy for Potable and Non-potable Water after extensive discussion with stakeholders, and with the support of its M&I Contractors and untreated water users; and

WHEREAS, the adopted Water Quality Policy called for an Implementation Plan to be prepared as part of the Water Quality Management Program which shall be reviewed and updated every two years, or sooner if required, to reflect any emerging water quality issues and other regulatory and/or technology developments; and

WHEREAS, the Implementation Plan was completed in April 2003 which established internal water quality targets for guiding operations and capital improvements and recommended several capital projects for meeting the water quality targets; and

WHEREAS, the Board on August 17, 2005 adopted Resolution No. 06-2783 setting forth its Joint Water Quality Resolution with two of its M&I Contractors, City of Pleasanton and Dublin San Ramon Services District, for a work plan to update the Implementation Plan which included schedules and several policy principles to be evaluated; and

WHEREAS, the Implementation Plan was updated in December 2006 per the 2005 Joint Water Quality Resolution and every two years after; and

WHEREAS, Zone 7 has incorporated the internal water quality targets into various operations plans, planning documents, and design criteria as appropriate; and

WHEREAS, the capital projects recommended by the 2003 Implementation Plan and its updates have been implemented, completed, or incorporated into Zone 7's ongoing Capital Improvement Program (CIP); and

WHEREAS, the Board desires to revise the 2003 Water Quality Policy and the 2005 Joint Water Quality Resolution to reflect current condition of water quality and project status as well as the expectations of its M&I Contractors and untreated water users.

NOW, THEREFORE, BE IT RESOLVED that the Board hereby rescinds Resolution No. 03-2494 adopting the 2003 Water Quality Policy and Resolution No. 06-2783 adopting the 2005 Joint Water Quality Resolution; and

BE IT FURTHER RESOLVED that the Board hereby adopts the following policy goals regarding water quality to guide the Zone 7 potable and non-potable water operations and its CIP:

GOAL 1 – Zone 7 shall continue to meet all State and federal primary Maximum Contaminant Levels<sup>1</sup> (MCLs) for potable water delivered to the M&I Contractors' turnouts. In addition, Zone 7 shall deliver potable water of a quality that is as close as technically feasible and fiscally responsible to the Public Health Goals<sup>2</sup> (PHGs) and/or Maximum Contaminant Level Goals<sup>3</sup> (MCLGs). To ensure a margin of safety, the delivered water shall generally be of a quality that contains no greater than 80 percent of the applicable State or federal primary MCLs.

GOAL 2 – Zone 7 shall meet all State and federal secondary MCLs in the potable water delivered to its M&I Contractors' turnouts. In addition, Zone 7 shall, within technical and fiscal constraints, proactively mitigate earthy-musty taste and odor events<sup>4</sup> from surface water supplies and reduce hardness levels to "moderately hard", defined as 75 to 150 mg/L. Also, Zone 7 shall optimize its treatment processes to minimize chlorinous odors by maintaining consistent disinfectant dosage and residual.

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<sup>1</sup> Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

<sup>2</sup> Public Health Goal (PHG): The level of a primary contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

<sup>3</sup> Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the United States Environmental Protection Agency.

<sup>4</sup> An event is defined as when three or more similar complaints are received in a 7-day period.

GOAL 3 – Zone 7 shall endeavor to deliver to its untreated water turnouts, from a variety of sources, water of a quality that meets the irrigation needs and does not negatively impact vegetation, crops, or soils.

GOAL 4 – In order to achieve Goals 1 through 3, Zone 7 shall continue to work to improve the quality of its source waters. This may be achieved through Zone 7's Salt and Nutrient Management Plan, which will maintain or improve the water quality in the groundwater basin, and through advocacy of improvements in the State Water Project, its facilities and their operations, which may improve the source water of Zone 7's surface water supplies.

GOAL 5 – Zone 7 will partner with M&I Contractors to assist them in taking similar steps as those outlined in this policy to maintain or improve the quality of water delivered to the M&I Contractor's retail customers.

BE IT FURTHER RESOLVED that this Board policy be reviewed and updated as needed. Also, to ensure that this Board policy is carried out effectively, the Zone 7 General Manager shall implement the following actions:

- Maintain a regular dialog with the M&I Contractors and untreated water users as appropriate and provide opportunities for meaningful and timely input;
- Conduct a workshop with the M&I Contractors to develop a Water Quality Management Program Report every two years. The workshop will review emerging water quality issues and relevant regulatory and/or technology developments, review status of key parameters of concern in relation to their water quality targets, review water quality policy and need for updates, and review status of relevant water quality improvement projects/activities. The Report shall include any recommended revisions to the water quality targets and/or recommended projects/activities to assist in meeting the water quality targets. Optimization of system operations will be recommended, where possible, prior to the identification of the need for capital improvements. The Report recommended capital improvements shall be incorporated into Zone 7's biennial update of the Ten-Year Water System CIP.
- Work with the M&I Contractors to develop joint educational and notification materials for the public regarding Valley's water supplies, emphasizing all the actions taken and to be taken to improve water quality, including how those actions affect each Contactor.
- Establish and facilitate a joint operations workgroup consisting of operations staff from Zone 7 and the M&I Contractors to coordinate data collection and analysis and to coordinate operating practices to improve and minimize variations in delivered water quality.

**HISTORY**

<b>Date</b>	<b>Action</b>	<b>Resolution</b>
April 16, 2003	Originally adopted	03-2494
August 17, 2005	Updated	06-2783
April 16, 2014	Updated	14-4365