California Regulations Related to Drinking Water

California Regulations Related to Drinking Water

June 21, 2012 (Revisions not effective until 6/21/12)

Portions amended, adopted, repealed, or not included in the previous version are highlighted in yellow. Please note that the Water Recycling Criteria as been removed from this document, but may still be viewed in the “Recycled Water-Related Regulations” document here: http://www.cdph.ca.gov/certlic/drinkingwater/Pages/Lawbook.aspx

TITLE 17 CODE OF REGULATIONS

DIVISION 1. STATE DEPARTMENT OF HEALTH SERVICES

CHAPTER 5. SANITATION (ENVIRONMENTAL)

SUBCHAPTER 1. ENGINEERING (SANITARY)

GROUP 4. DRINKING WATER SUPPLIES

Article 1. General

§7583. Definitions

§7584. Responsibility and scope of program

§7585. Evaluation of hazard

§7586. User supervisor

Article 2. Protection of Water System

§7601. Approval of backflow preventers

§7602. Construction of backflow preventers

§7603. Location of backflow preventers

§7604. Type of protection required

§7605. Testing and maintenance of backflow preventers

TITLE 22 CODE OF REGULATIONS

DIVISION 4. ENVIRONMENTAL HEALTH

CHAPTER 1. INTRODUCTION

Article 1. Definitions

§60001. Department

§60003. Director

CHAPTER 2. REGULATIONS FOR THE IMPLEMENTATION OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

Article 1. General Requirements and Categorical Exemptions

§60100. General requirements

§60101. Specific Activities Within Categorical Exempt Classes

Article 2. Monitoring and Reporting Requirements - Scope

§60098. Monitoring and Reporting Requirements

CHAPTER 4. WATER TREATMENT DEVICES

Article 1. Definitions

§60400. Certification

§60401. Health and Safety Claim

§60402. Independent Laboratory

§60403. Manufacturer

§60404. Recognized Testing Organization
California Regulations Related to Drinking Water

[72x35]Last updated June 21, 2012—from Titles 17 and 22 California Code of Regulations

CHAPTER 17.5. LEAD AND COPPER ................................................... 245

Article 1. General Requirements and Definitions ........................................ 245

Article 2. Treatment Requirements, Watershed Protection Requirements, and Performance Standards................................................................. 244

Article 3.5. Enhanced Filtration and Disinfection ............................................. 234

Article 4. Design Standards ........................................................................... 238

Article 5. Operation .......................................................................................... 239

Article 6. Reporting .......................................................................................... 242

Article 7. Watershed Sanitary Surveys ............................................................... 244

Article 8. Public Notification .......................................................................... 244

CHAPTER 17.5. LEAD AND COPPER ................................................... 245

Article 1. General Requirements and Definitions ........................................ 245

Article 2. Treatment Requirements, Watershed Protection Requirements, and Performance Standards................................................................. 244

Article 3.5. Enhanced Filtration and Disinfection ............................................. 234

Article 4. Design Standards ........................................................................... 238

Article 5. Operation .......................................................................................... 239

Article 6. Reporting .......................................................................................... 242

Article 7. Watershed Sanitary Surveys ............................................................... 244

Article 8. Public Notification .......................................................................... 244

NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.
NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

§64671.30. Large Water System ................................................................. 246
§64671.35. Lead Service Line ................................................................. 247
§64671.40. Medium-size Water System ..................................................... 247
§64671.55. Period ..................................................................................... 247
§64671.65. Single-family Structure ............................................................ 247
§64671.70. Small Water System ............................................................... 247
§64671.75. Tap Sampling ........................................................................ 247
§64671.80. Water Quality Parameter or WQP. ........................................ 247
§64671.85. WQP Monitoring ................................................................. 247

Article 2. Requirements According to System Size ................................... 247
§64673. Small and Medium-size Water System Requirements .................. 247
§64674. Large Water System Requirements ........................................... 249

Article 3. Monitoring for Lead and Copper ............................................... 251
§64675. General Requirements for Tap Sampling for Lead and Copper .... 251
§64675.5. Tap Sampling Frequency ....................................................... 251
§64676. Sample Site Selection ............................................................... 252
§64677. Sample Collection Methods for Taps .......................................... 253
§64677.5. Sample Invalidation ............................................................... 254
§64678. Determination of Exceedances of Lead and Copper Action Levels. 255
§64678.5. Monitoring Waivers for Small Systems ................................... 256
§64679. Supplemental Monitoring ....................................................... 257

Article 4. Water Quality Parameter (WQP) Monitoring ............................. 258
§64680. General WQP Monitoring Requirements .................................. 258
§64681. Initial WQP Monitoring ........................................................... 258
§64682. WQP Monitoring After CCT Installation .................................... 259

Article 5. Corrosion Control ................................................................. 260
§64683. Corrosion Control Study Procedure .......................................... 260
§64684. CCT Installation and Operation ................................................. 261

Article 6. Source Water Requirements for Action Level Exceedances ........ 262
64685. Source Water Monitoring and Treatment Designation ................ 262
§64686. Requirements Subsequent to the Department’s Designation ....... 263

Article 7. Public Education Program for Lead Action Level Exceedances 64687 .... 264
§64687. Lead Public Education Program Content and Delivery .............. 264

Article 8. Lead Service Line Requirements for Action Level Exceedances .... 272
§64688. Lead Service Line Replacement ............................................... 272
§64689. Lead Service Line Sampling ................................................... 273

Article 9. Reporting and Recordkeeping ............................................... 274
§64690.10. Data Reporting ................................................................. 274
§64690.80. Recordkeeping ................................................................. 274

Addendum A: CA Ground Water Rule – A reference to text adopted pursuant to Section 64430. ................................................................. 275
§141.21. Coliform sampling ................................................................. 275
§141.28. Certified laboratories ............................................................ 275
§141.153. Content of the reports ........................................................ 275

Appendix A to Subpart O of Part 141 – Regulated Contaminants. ......... 276
§141.202. Tier 1 Public Notice – Form, manner, and frequency of notice. ...................... 276
§141.202. Tier 2 Public Notice – Form, manner, and frequency of notice. ...................... 276
Appendix A to Subpart Q of Part 141 – NPDWR Violations and Other Situations Requiring Public Notice.1.................................................................................................................... 277
Appendix B to Subpart Q of Part 141 – Standard Health Effects Language for Public Notification.1....................................................................................................................... 277
§141.400. General requirements and applicability. ......................................................... 278
§141.401. Sanitary surveys for ground water systems. ................................................. 279
§141.402. Ground water source microbial monitoring and analytical methods. .......... 279
§141.403. Treatment technique requirements for ground water systems................. 283
§141.404. Treatment technique violations for ground water systems. ....................... 287
§141.405. Reporting and recordkeeping for ground water systems. .......................... 287
NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

**TITLE 17 CODE OF REGULATIONS**

**DIVISION 1. STATE DEPARTMENT OF HEALTH SERVICES**

**CHAPTER 5. SANITATION (ENVIRONMENTAL)**

**SUBCHAPTER 1. ENGINEERING (SANITARY)**

**GROUP 4. DRINKING WATER SUPPLIES**

**Article 1. General**

§7583. Definitions.

In addition to the definitions in Section 116275 of the Health and Safety Code, the following terms are defined for the purpose of this Chapter:

(a) "Approved Water Supply" is a water supply whose potability is regulated by a State of local health agency.

(b) "Auxiliary Water Supply" is any water supply other than that received from a public water system.

(c) “Air-gap Separation (AG)" is a physical break between the supply line and a receiving vessel.

(d) "AWWA Standard" is an official standard developed and approved by the American Water Works Association (AWWA).

(e) "Cross-Connection" is an unprotected actual or potential connection between a potable water system used to supply water for drinking purposes and any source or system containing unapproved water or a substance that is not or cannot be approved as safe, wholesome, and potable. By-pass arrangements, jumper connections, removable sections, swivel or changeover devices, or other devices through which backflow could occur, shall be considered to be cross-connections.

(f) "Double Check Valve Assembly (DC)" is an assembly of at least two independently acting check valves including tightly closing shut-off valves on each side of the check valve assembly and test cocks available for testing the watertightness of each check valve.

(g) "Health Agency" means the California Department of Health Services, or the local health officer with respect to a small water system.

(h) "Local Health Agency" means the county or city health authority.

(i) "Reclaimed Water" is a wastewater which as a result of treatment is suitable for uses other than potable use.

(j) "Reduced Pressure Principle Backflow Prevention Device (RP)" is a backflow preventer incorporating not less than two check valves, an automatically operated differential relief valve located between the two check valves, a tightly closing shut-off valve on each side of the check valve assembly.
valve assembly, and equipped with necessary test cocks for testing.

(k) "User Connection" is the point of connection of a user's piping to the water supplier's facilities.

(l) "Water Supplier" is the person who owns or operates the public water system.

(m) "Water User" is any person obtaining water from a public water supply.

§7584. Responsibility and scope of program.
The water supplier shall protect the public water supply from contamination by implementation of a cross-connection control program. The program, or any portion thereof, may be implemented directly by the water supplier or by means of a contract with the local health agency, or with another agency approved by the health agency. The water supplier's cross-connection control program shall for the purpose of addressing the requirements of Sections 7585 through 7605 include, but not be limited to, the following elements:

(a) The adoption of operating rules or ordinances to implement the cross-connection program.

(b) The conducting of surveys to identify water user premises where cross-connections are likely to occur,

(c) The provisions of backflow protection by the water user at the user's connection or within the user's premises or both,

(d) The provision of at least one person trained in cross-connection control to carry out the cross-connection program,

(e) The establishment of a procedure or system for testing backflow preventers, and

(f) The maintenance of records of locations, tests, and repairs of backflow preventers.

§7585. Evaluation of hazard.
The water supplier shall evaluate the degree of potential health hazard to the public water supply which may be created as a result of conditions existing on a user's premises. The water supplier, however, shall not be responsible for abatement of cross-connections which may exist within a user's premises. As a minimum, the evaluation should consider: the existence of cross-connections, the nature of materials handled on the property, the probability of a backflow occurring, the degree of piping system complexity and the potential for piping system modification. Special consideration shall be given to the premises of the following types of water users:

(a) Premises where substances harmful to health are handled under pressure in a manner which could permit their entry into the public water system. This includes chemical or biological process waters and water from public water supplies which have deteriorated in sanitary quality.
(b) Premises having an auxiliary water supply, unless the auxiliary supply is accepted as an additional source by the water supplier and is approved by the health agency.

(c) Premises that have internal cross-connections that are not abated to the satisfaction of the water supplier or the health agency.

(d) Premises where cross-connections are likely to occur and entry is restricted so that cross-connection inspections cannot be made with sufficient frequency or at sufficiently short notice to assure that cross-connections do not exist.

(e) Premises having a repeated history of cross-connections being established or re-established.

§7586. User supervisor.
The health agency and water supplier may, at their discretion, require an industrial water user to designate a user supervisor when the water user's premises has a multipiping system that convey various types of fluids, some of which may be hazardous and where changes in the piping system are frequently made. The user supervisor shall be responsible for the avoidance of cross-connections during the installation, operation and maintenance of the water user's pipelines and equipment.

Article 2. Protection of Water System
§7601. Approval of backflow preventers.
Backflow preventers required by this Chapter shall have passed laboratory and field evaluation tests performed by a recognized testing organization which has demonstrated their competency to perform such tests to the Department.

§7602. Construction of backflow preventers.
(a) Air-gap Separation. An Air-gap separation (AG) shall be at least double the diameter of the supply pipe, measured vertically from the flood rim of the receiving vessel to the supply pipe; however, in no case shall this separation be less than one inch.

(b) Double Check Valve Assembly. A required double check valve assembly (DC) shall, as a minimum, conform to the AWWA Standard C506-78 (R83) adopted on January 28, 1978 for Double Check Valve Type Backflow Preventive Devices which is herein incorporated by reference.

(c) Reduced Pressure Principle Backflow Prevention Device. A required reduced pressure principle backflow prevention device (RP) shall, as a minimum, conform to the AWWA Standard C506-78 (R83) adopted on January 28, 1978 for Reduced Pressure Principle Type Backflow Prevention Devices which is herein incorporated by reference.

§7603. Location of backflow preventers.
(a) Air-gap Separation. An air-gap separation shall be located as close as practical to the user's connection and all piping between the user's connection and the receiving tank shall be
entirely visible unless otherwise approved in writing by the water supplier and the health agency.

(b) Double Check Valve Assembly. A double check valve assembly shall be located as close as practical to the user's connection and shall be installed above grade, if possible, and in a manner where it is readily accessible for testing and maintenance.

(c) Reduced Pressure Principle Backflow Prevention Device. A reduced pressure principle backflow prevention device shall be located as close as practical to the user's connection and shall be installed a minimum of twelve inches (12") above grade and not more than thirty-six inches (36") above grade measured from the bottom of the device and with a minimum of twelve inches (12") side clearance.

§7604. Type of protection required.
The type of protection that shall be provided to prevent backflow into the public water supply shall be commensurate with the degree of hazard that exists on the consumer's premises. The type of protective device that may be required (listed in an increasing level of protection) includes: Double check Valve Assembly-(DC), Reduced Pressure Principle Backflow Prevention Device-(RP) and an Air gap Separation-(AG). The water user may choose a higher level of protection than required by the water supplier. The minimum types of backflow protection required to protect the public water supply, at the water user's connection to premises with various degrees of hazard, are given in Table 1. Situations not covered in Table 1 shall be evaluated on a case-by-case basis and the appropriate backflow protection shall be determined by the water supplier or health agency.
NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

### TABLE 1
**TYPE OF BACKFLOW PROTECTION REQUIRED**

<table>
<thead>
<tr>
<th>Degree of Hazard</th>
<th>Minimum Type of Backflow Prevention</th>
</tr>
</thead>
</table>

(a) Sewage and Hazardous Substances

(1) Premises where there are waste water pumping and/or treatment plants and there is no interconnection with the potable water system. This does not include a single-family residence that has a sewage lift pump. A RP may be provided in lieu of an AG if approved by the health agency and water supplier. AG

(2) Premises where hazardous substances are handled in any manner in which the substances may enter the potable water system. This does not include a single-family residence that has a sewage lift pump. A RP may be provided in lieu of an AG if approved by the health agency and water supplier. AG

(3) Premises where there are irrigation systems into which fertilizers, herbicides, or pesticides are, or can be, injected. RP

(b) Auxiliary Water Supplies

(1) Premises where there is an unapproved auxiliary water supply which is interconnected with the public water system. A RP or DC may be provided in lieu of an AG if approved by the health agency and water supplier. AG

(2) Premises where there is an unapproved auxiliary RP water supply and there are no interconnections with the public water system. A DC may be provided in lieu of a RP if approved by the health agency and water supplier. RP

(c) Recycled water

(1) Premises where the public water system is used to supplement the recycled water supply. AG

(2) Premises where recycled water is used, other than as allowed in paragraph (3), and there is no interconnection with the potable water system. RP

(3) Residences using recycled water for landscape irrigation as part of an approved dual plumbed use area established pursuant to sections 60313 through 60316 unless the recycled water supplier obtains approval of the local public water supplier, or the Department if the water supplier is also the supplier of the recycled water, to utilize an alternative backflow protection plan that includes an annual inspection and annual shutdown test of the recycled water and potable water systems pursuant to subsection 60316(a). DC

(d) Fire Protection Systems

(1) Premises where the fire system is directly supplied from the public water system and there is an unapproved auxiliary water supply on or to the premises (not interconnected). DC

(2) Premises where the fire system is supplied from the public water system and interconnected with an unapproved auxiliary water supply. A RP may be provided in lieu of an AG if approved by the health agency and water supplier. AG

Last updated June 21, 2012—from Titles 17 and 22 California Code of Regulations
California Regulations Related to Drinking Water
(3) Premises where the fire system is supplied from the public water system and where either elevated storage tanks or fire pumps which take suction from private reservoirs or tanks are used.

(4) Premises where the fire system is supplied from the public water system and where recycled water is used in a separate piping system within the same building.

(e) Dockside Watering Points and Marine Facilities
   (1) Pier hydrants for supplying water to vessels for any purpose.
   (2) Premises where there are marine facilities.

(f) Premises where entry is restricted so that inspections for cross-connections cannot be made with sufficient frequency or at sufficiently short notice to assure that do not exist.

(g) Premises where there is a repeated history of cross-connections being established or re-established.

§7605. Testing and maintenance of backflow preventers.
   (a) The water supplier shall assure that adequate maintenance and periodic testing are provided by the water user to ensure their proper operation.

   (b) Backflow preventers shall be tested by persons who have demonstrated their competency in testing of these devices to the water supplier or health agency.

   (c) Backflow preventers shall be tested at least annually or more frequently if determined to be necessary by the health agency or water supplier. When devices are found to be defective, they shall be repaired or replaced in accordance with the provisions of this Chapter.

   (d) Backflow preventers shall be tested immediately after they are installed, relocated or repaired and not placed in service unless they are functioning as required.

   (e) The water supplier shall notify the water user when testing of backflow preventers is needed. The notice shall contain the date when the test must be completed.

   (f) Reports of testing and maintenance shall be maintained by the water supplier for a minimum of three years.
§60405. Testing Requirements. ................................................................. 22
§60406. Modification................................................................. 22

Article 2. Certification Requirements .................................................. 22
§60407. Certification Period................................................................. 22

Article 3. Application Requirements .................................................. 22
§60410. Certification Application.......................................................... 22
§60415. Certification Renewal................................................................. 23
§60425. Modification of a Certification.................................................. 23
§60430. Processing Time (Repealed) ................................................. 24

Article 4. Testing and Testing Protocols ............................................. 24
§60435. Testing and Testing Protocols.................................................. 24
§60440. Manufacturer's Testing Protocols............................................ 25
§60445. Manufacturer's Test Data......................................................... 25
§60450. Prior Test Data................................................................. 26
§60455. Extrapolation of Data................................................................. 26
§60460. Retesting................................................................. 27

Article 5. Product Labeling and Data Sheet Requirements ................. 28
§60465. Product Labeling................................................................. 28
§60470. Product Data Sheet................................................................. 28

Article 6. Fees ................................................................................. 28
§60475. Fees................................................................. 29

CHAPTER 12. SAFE DRINKING WATER PROJECT FUNDING ............. 29

Article 1. Definitions ........................................................................... 29
§63000.10. Applicant........................................................................... 29
§63000.13. CEQA........................................................................... 29
§63000.16. Completion of Project......................................................... 29
§63000.17. Consolidation Project......................................................... 29
§63000.19. Construction Funding......................................................... 29
§63000.25. Disadvantaged Community............................................. 29
§63000.28. Drinking Water Standards................................................ 29
§63000.31. Eligible Project Cost........................................................... 30
§63000.34. Federal Cross-Cutters......................................................... 30
§63000.35. Federal Funding Allocation................................................ 30
§63000.40. Funding Application........................................................... 30
§63000.43. Funding Agreement............................................................ 30
§63000.46. Funding Agreement Execution........................................... 30
§63000.47. Funding Recipient............................................................. 30
§63000.48. Intended Use Plan............................................................. 30
§63000.49. Local Match Project.......................................................... 30
§63000.62. Median Household Income.............................................. 30
§63000.65. NEPA................................................................. 31
§63000.66. Non-profit or Not-for-profit............................................... 31
§63000.67. Notice of Acceptance of Application................................... 31
§63000.68. Planning Funding............................................................... 31
§63000.70. Possible contaminating activity (PCA)................................ 31
CHAPTER 13. OPERATOR CERTIFICATION

Article 1. Definitions
NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

§63750.10. Accredited Academic Institution. ................................................................. 42
§63750.15. Certificate. .................................................................................................... 42
§63750.20. Certified Distribution Operator. ................................................................. 42
§63750.25. Chief Operator. ......................................................................................... 42
§63750.30. Comprehensive Operator Training Program. ............................................ 42
§63750.35. Contact Hour. ............................................................................................ 42
§63750.40. Continuing Education Course. ................................................................. 42
§63750.45. Distribution Operator. ................................................................................ 42
§63750.50. Distribution System. ................................................................................ 42
§63750.55. GED. ......................................................................................................... 43
§63750.60. Interim Distribution Operator Certificate. ................................................... 43
§63750.65. Operator Experience. ................................................................................ 43
§63750.70. Shift Operator............................................................................................ 43
§63750.75. Specialized Training. ................................................................................ 43
§63750.85. Water treatment facility. ........................................................................... 43

Article 2. Operator Certification Grades................................................................... 44
§63765. Water Treatment Facility Staff Certification Requirements. ....................... 44
§63770. Distribution System Staff Certification Requirements. .................................. 45

Article 3. Operator Examination Criteria and Applications ....................................... 45
§63775. Eligibility Criteria for Taking a Water Treatment Operator Examination. ....... 45
§63780. Eligibility Criteria for Taking a Distribution Operator Examination. .............. 46
§63785. Examination Application Content and Submittal. .......................................... 47

Article 4. Operator Certification Criteria and Applications .......................................... 48
§63800. Eligibility Criteria for Water Treatment Operator Certification. ..................... 48
§63805. Eligibility Criteria for Distribution Operator Certification. ......................... 50
§63810. Interim Certification of Distribution Operators. ............................................. 51
§63815. CNAWWA Distribution Operator Certification. ........................................... 52
§63820. Temporary Distribution Operator Certification. ............................................ 52
§63825. Restricted Operator Certification. .................................................................. 53
§63830. Certification Application Content and Submittal. ........................................... 53

Article 5. Certification Renewals, Delinquent Renewals and Fees............................... 54
§63840. Certification Renewals. ................................................................................ 54
§63845. Reinstatement. ............................................................................................. 55
§63850. Fees. .............................................................................................................. 55

CHAPTER 14. WATER PERMITS .............................................................................. 57
Article 1. Applications ............................................................................................... 57
§64001. Water Permit Application. ............................................................................ 57
§64002. Processing Time. (Repealed) ....................................................................... 57
§64197. Service Connection Fee. ............................................................................... 57

Article 3. State Small Water Systems........................................................................ 57
§64211. Permit Requirement. .................................................................................... 57
§64212. Bacteriological Quality Monitoring. ............................................................. 58
NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

§64213. Chemical Quality Monitoring. ................................................................. 58
§64214. Service Connection Limitation. ............................................................... 59
§64215. Water Supply Requirements. ................................................................. 59
§64216. Mutual Associations Prohibited. ............................................................. 59
§64217. Surface Water Treatment Requirement. .................................................. 59

Article 4. Local Primacy Delegation .................................................................. 59

§64251. Definitions. ............................................................................................. 59
§64252. Primacy Delegation Application. ............................................................... 60
§64253. Local Primacy Agency Minimum Program Requirements. ...................... 61
§64254. Permits. ..................................................................................................... 61
§64255. Surveillance. ............................................................................................. 61
§64256. Sampling and Monitoring. ........................................................................ 62
§64257. Reporting. ............................................................................................... 63
§64258. Enforcement. ........................................................................................... 63
§64259. Program Management. ............................................................................ 64
§64260. Workplans. ............................................................................................... 64

CHAPTER 15. DOMESTIC WATER QUALITY AND MONITORING REGULATIONS ................................................................................. 65

Article 1. Definitions .......................................................................................... 65

§64400. Acute Risk ............................................................................................... 65
§64400.05. Combined Distribution System. ............................................................ 65
§64400.10. Community Water System. ................................................................. 65
§64400.20. Compliance Cycle. ............................................................................. 65
§64400.25. Compliance Period. ............................................................................ 65
§64400.28. Confluent Growth. ............................................................................. 65
§64400.29. Consecutive System. ......................................................................... 65
§64400.30. Customer ........................................................................................... 65
§64400.32. Detected. ............................................................................................ 66
§64400.34. Detection Limit for Purposes of Reporting (DLR). .............................. 66
§64400.36. Dual Sample Set. ................................................................................. 66
§64400.38. Enhanced Coagulation. ..................................................................... 66
§64400.40. Enhanced Softening. ......................................................................... 66
§64400.41. Finished Water. .................................................................................. 66
§64400.42. Fluoridation ....................................................................................... 66
§64400.45. GAC10. ............................................................................................... 66
§64400.46. GAC20. ............................................................................................... 66
§64400.47. Haloacetic Acids (Five) or HAA5. ......................................................... 67
§64400.50. Initial Compliance Period. .............................................................. 67
§64400.60. Enhanced Softening. ......................................................................... 67
§64400.67. Maximum Residual Disinfectant Level or MRDL. ............................ 67
§64400.70. MCL .................................................................................................. 67
§64400.80. Nontransient-noncommunity Water System. ...................................... 67
§64400.90. Operational Evaluation Levels or OEL. ............................................ 67
The regulations set forth in this Article shall remain in effect until the earlier of the date set

§64401. Repeat Compliance Period................................................................. 67
§64401.10. Repeat Sample. ............................................................................. 68
§64401.20. Replacement Sample.................................................................... 68
§64401.30. Routine Sample.............................................................................. 68
§64401.40. Sanitary Survey............................................................................. 68
§64401.50. Significant Rise in Bacterial Count.................................................. 68
§64401.55. SOC................................................................................................. 68
§64401.60. Standby Source............................................................................. 68
§64401.65. SUVA.............................................................................................. 68
§64401.70. System with a Single Service Connection........................................ 68
§64401.71. Tier 1 Public Notice................................................................. 68
§64401.75. Too Numerous to Count.............................................................. 69
§64401.80. Total Coliform-positive................................................................. 69
§64401.82. Total Organic Carbon or TOC.................................................... 69
§64401.85. Transient-noncommunity Water System........................................ 69
§64401.90. Treatment.................................................................................... 69
§64401.92. Total Trihalomethanes or TTHM................................................... 69
§64401.95. VOC................................................................................................. 69
§64402. Vulnerable System............................................................................. 69
§64402.10. Water Source............................................................................... 69
§64402.20. Water Supplier................................................................. 70
§64402.30. Wholesale System........................................................................ 70

Article 2. General Requirements................................................................ 70
§64412. Determination of Persons Served............................................... 70
§64413.1. Classification of Water Treatment Facilities............................... 70
§64413.3. Classification of Distribution Systems........................................ 74
§64413.5. Treatment Facility Staff Certification Requirements......................... 75
§64413.7. Distribution System Staff Certification Requirements....................... 76
§64414. Standby Sources............................................................................ 76
§64415. Laboratory and Personnel............................................................ 77
§64416. Sampling Plan for all Monitoring Except Bacteriological.................. 77

Article 2.5. Point-of-Use Treatment ............................................................ 77
§64417. Point-of-use treatment device or POU............................................. 77
§64418. General Provisions........................................................................... 77
§64418.1. Economic Feasibility of Centralized Treatment............................ 78
§64418.2. POU Requirements................................................................. 79
§64418.3. POU Treatment Strategy............................................................ 80
§64418.4. POU Operations and Maintenance (O&M) Program.................. 81
§64418.5. POU Monitoring Program.......................................................... 81
§64418.6. Public Hearing and Acceptance.................................................. 82
§64418.7. Recordkeeping, Reporting, and Compliance............................... 83

Article 2.7. Point-of-Entry Treatment .......................................................... 84
§64419. Point-of-entry treatment device or POE........................................ 84
§64420. General Provisions........................................................................... 84
The regulations set forth in this Article shall remain in effect until the earlier of the date set
California Regulations Related to Drinking Water

NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

forth pursuant to section 116380(b), Health and Safety Code, or the effective date of regulations adopted pursuant to Health and Safety Code, section 116380(a).

§64420.1. Economic Feasibility of Centralized Treatment

§64420.2. POE Requirements

§64420.3. POE Treatment Strategy

§64420.4. POE Operations and Maintenance (O&M) Program

§64420.5. POE Monitoring Program

§64420.6. Public Hearing and Acceptance

§64420.7. Recordkeeping, Reporting, and Compliance

Article 3. Primary Standards--Bacteriological Quality

§64421. General Requirements

§64422. Routine Sample Siting Plan

§64423. Routine Sampling

§64423.1. Sample Analysis and Reporting of Results

§64424. Repeat Sampling

§64425. Sample Invalidation

§64426. Significant Rise in Bacterial Count

§64426.1. Total Coliform Maximum Contaminant Level (MCL)

§64426.5. Variance from Total Coliform Maximum Contaminant Level

§64427. Sanitary Survey

Article 3.5. Ground Water Rule

§64430. Requirements

Article 4. Primary Standards--Inorganic Chemicals

§64431. Maximum Contaminant Levels--Inorganic Chemicals

§64432. Monitoring and Compliance--Inorganic Chemicals

§64432.1. Monitoring and Compliance--Nitrate and Nitrite

§64432.2. Monitoring and Compliance - Asbestos

§64432.3. Monitoring and Compliance - Perchlorate

§64432.8. Sampling of Treated Water Sources

Article 4.1. Fluoridation

§64433. System Requirements and Exemptions

§64433.2. Optimal Fluoride Levels

§64433.3. Monitoring and Compliance--Fluoride Levels

§64433.5. Fluoridation System

§64433.7. Recordkeeping, Reporting, and Notification for Water Systems Fluoridating

§64433.8. Sampling of Treated Water Sources

§64433.9. Requirements

Article 4.5. Trihalomethanes (repealed)

§64439. Requirements

Article 5. Radioactivity

§64442. MCLs and Monitoring - Gross Alpha Particle Activity, Radium-226, Radium-228, and Uranium

§64443. MCLs and Monitoring - Beta Particle and Photon Radioactivity

Article 5.5. Primary Standards -- Organic Chemicals

§64444. Maximum Contaminant Levels -- Organic Chemicals
NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

§64445. Initial sampling - organic chemicals ................................................................. 122
§64445.1. Monitoring and Compliance – Organic Chemicals ..................................... 123
§64445.2. Sampling of Treated Water Sources ......................................................... 127

Article 12. Best available technologies (BAT) ......................................................... 127
§64447. Best available technologies (BAT) – Microbiological Contaminants ........... 127
§64447.2. Best available technologies (BAT) - inorganic chemicals ......................... 127
§64447.3. Best Available Technologies (BAT) - Radionuclides .......................... 129
§64447.4. Best Available Technologies (BATs) - Organic Chemicals ....................... 131

Article 14. Treatment Techniques ......................................................................... 133
§64448. Treatment Technique Requirements ......................................................... 133

Article 16. Secondary Drinking Water Standards .................................................... 133
§64449. Secondary Maximum Contaminant Levels and Compliance ....................... 133
§64449.2. Waivers for Secondary MCL Compliance ................................................. 135
§64449.4. Use of Sources that Exceed a Secondary MCL and Do Not Have a Waiver .... 137
§64449.5. Distribution System Physical Water Quality .......................................... 138

Article 18. Notification of Water Consumers and the Department ......................... 138
§64463. General Public Notification Requirements ................................................. 138
§64463.1. Tier 1 Public Notice .................................................................................. 139
§64463.4. Tier 2 Public Notice .................................................................................. 140
§64463.7. Tier 3 Public Notice .................................................................................. 142
§64465. Public Notice Content and Format ............................................................. 143
§64466. Special Notice for Unregulated Contaminant Monitoring Results ............ 154
§64468.5. Health Effects Language—Disinfectants and Disinfection Byproducts, (repealed) ........................................................................................................... 155

Article 19. Records, Reporting and Recordkeeping ............................................ 155
§64469. Reporting Requirements ............................................................................ 155
§64470. Recordkeeping ............................................................................................ 155

Article 20. Consumer Confidence Report ............................................................... 156
§64480. Applicability and Distribution ..................................................................... 156
§64481. Content of the Consumer Confidence Report .......................................... 156
§64482. Required Additional Health Information .................................................... 168
§64483. Consumer Confidence Report Delivery and Recordkeeping ..................... 169

CHAPTER 15.5 DISINFECTANT RESIDUALS, DISINFECTION BYPRODUCTS, AND DISINFECTION BYPRODUCT PRECURSORS . . 170

Article 1. General Requirements and Definitions .................................................. 170
§64530. Applicability of this Chapter ....................................................................... 170
§64531. Definitions Governing Terms Used in this Chapter .................................... 172

Article 2. Maximum Contaminant Levels for Disinfection Byproducts and Maximum Residual Disinfectant Levels ................................................................. 172
§64533. Maximum Contaminant Levels for Disinfection Byproducts, Best Available Technology ................................................................. 172
§64533.5. Maximum Residual Disinfectant Levels .................................................. 174

Article 3. Monitoring requirements ................................................................. 174
§64534. General Monitoring Requirements ......................................................... 174
§64534.2. Disinfection Byproducts Monitoring ......................................................... 176
NOTE: This publication is meant to be an aid to the staff of the CDPH Drinking Water Program and cannot be relied upon by the regulated community as the State of California’s representation of the law. The published codes are the only official representation of the law. Refer to the published codes—in this case, 17 CCR and 22 CCR—whenever specific citations are required. Statutes related to CDPH’s drinking water-related activities are in the Health & Safety Code, the Water Code, and other codes.

CHAPTER 16. CALIFORNIA WATERWORKS STANDARDS .................200

Article 1. Definitions ................................................................. 200

§64551.10. Distribution Reservoir ........................................... 200
§64551.20. Distribution System ............................................... 200
§64551.30. Maximum Day Demand (MDD) ......................... 200
§64551.35. Peak Hour Demand (PHD) ................................. 200
§64551.40. Source Capacity .................................................. 200
§64551.60. User Service Line ............................................... 200
§64551.70. Water Main ......................................................... 200

Article 1.5. Waivers and Alternatives ...................................... 200

§64551.100. Waivers and Alternatives .................................. 200

Article 2. Permit Requirements .............................................. 201

§64552. Initial Permit for Public Water System ..................... 201
§64554. New and Existing Source Capacity ......................... 202
§64556. Permit Amendments .............................................. 207
§64558. Source Capacity Planning Study ............................. 208

Article 3. Water Sources ......................................................... 209

§64560. New Well Siting, Construction, and Permit Application 209
§64560.5. Well Destruction ................................................... 210
§64561. Source Flow Meters ............................................... 211

Article 4. Materials and Installation of Water Mains and Appurtenances ............................................. 211

§64570. Materials and Installation ....................................... 211
§64572. Water Main Separation ......................................... 212
§64573. Minimum Water Main Size for Community Water Systems ........................................ 213
§64575. Flushing ................................................................. 213

§64534.4. Disinfectant Residuals Monitoring: .......................... 185
§64534.6. Disinfection Byproduct Precursors Monitoring: .............. 185
§64534.8. Monitoring Plans .................................................... 186

Article 4. Compliance requirements ........................................ 187
§64535. General Requirements for Determining Compliance: ...... 187
§64535.2. Determining Disinfection Byproducts Compliance .................. 187
§64535.4. Determining Disinfectant Residuals Compliance ............. 190

Article 5. Treatment technique for control of disinfection byproduct precursors (DBPP) ......................... 191

§64536. Alternative Compliance Criteria to the Enhanced Coagulation and Enhanced Softening Performance Requirements ......................................... 191
§64536.2. Enhanced Coagulation and Enhanced Softening Performance Requirements .................. 192
§64536.4. Disinfection Byproduct Precursor Compliance Calculations ........................................... 194
§64536.6. Disinfection Byproduct Precursors Public Notification Requirements ................................ 195

Article 6. Reporting and recordkeeping requirements ............ 195
§64537. General Reporting and Recordkeeping Requirements ........ 195
§64537.2. Disinfection Byproducts Reporting ........................ 196
§64537.4. Disinfectants Reporting ......................................... 198
§64537.6. Disinfection Byproduct Precursors and Enhanced Coagulation or Enhanced Softening Reporting .................................................. 199

§64538. Monitoring Plans ........................................................ 186
§64536.8. Monitoring Plans .................................................... 186
§64535.6. Determining Disinfectant Residuals Compliance ............. 190
§64535.4. Determining Disinfectant Residuals Compliance ............. 190

§64534.8. Monitoring Plans .................................................... 186