

## San Francisco Bay Regional Water Quality Control Board

# NOTICE OF APPLICABILITY

### WATER QUALITY ORDER 2016-0068-DDW GENERAL WATER RECLAMATION REQUIREMENTS FOR RECYCLED WATER USE

This Notice of Applicability (Notice) transfers recycled water permit coverage for the applicants listed in Notice Attachment 1 (Region 2 Administrators) from the San Francisco Bay Regional Water Board's (Regional Water Board's) General Water Reuse Requirements for Municipal Wastewater and Water Agencies, Order No. R2-1996-0011 (Regional General Order), to the State Water Resources Control Board's (State Water Board's) General Water Reclamation Requirements for Recycled Water Use, Order WQ 2016-0068-DDW (State General Order). This Notice also specifies conditions the Region 2 Administrators must meet in order to maintain such coverage.

The State General Order delegates most responsibility for administering water recycling programs to the applicants as "Administrators." Administrators include producers, distributors, and users of recycled water, and legal entities such as a joint powers agreement or equivalent contractual agreement between a producer, distributor, irrigation entity, or other entity.

Based upon each Region 2 Administrator's Notice of Intent, Title 22 Engineering Report, and recycled water annual reports submitted to the Regional Water Board under the Regional General Order, the Regional Water Board's Executive Officer hereby finds that the State General Order is applicable to the Region 2 Administrators and that the Region 2 Administrators are enrolled under and regulated by the State General Order, as of the date of this Notice. The State General Order is attached (Notice Attachment 3) and is accessible online at:

[https://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2016/wqo2016\\_0068\\_ddw.pdf](https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2016/wqo2016_0068_ddw.pdf)

The Region 2 Administrators are responsible for administering their respective recycled water programs in accordance with the State General Order, including the requirements of California Code of Regulations Title 22 (22 CCR), division 4, chapter 3.

The following sections describe (I) the process by which the Region 2 Administrators will transition from regulation under the Regional General Order to the State General Order; and (II) additional requirements specified by the Regional Water Board to maintain coverage under the State General Order.

## **I. Transition from Regional to State General Order**

The State Water Board's Water Quality Control Policy for Recycled Water (Recycled Water Policy) will terminate regional water board general orders for non-potable uses of recycled water on April 8, 2022, and requires regional water boards to enroll existing permittees of those orders in the State General Order, or a site-specific order as appropriate, by that date. More specifically, Recycled Water Policy section 11.2.2, provides that if an enrollee under an existing regional water board general order has a Title 22 Engineering Report approved after January 1, 2001, the regional board must transfer the enrollee to the State General Order by April 8, 2020.

The State General Order's Notice of Intent (NOI) Instructions, found in the State General Order Attachment A, allow Administrators to submit an abbreviated application when they are transitioning from an existing order. Prior to the issuance of this Notice, the Region 2 Administrators were regulated under the Regional General Order. Each Region 2 Administrator submitted an NOI for coverage under the Regional General Order containing the same information required by the State General Order NOI Instructions. The Regional Water Board finds that the following documents submitted in compliance with the Regional General Order contain the information required by the State General Order Attachment A and constitute the NOIs:

1. **Title 22 Engineering Report.** Each Region 2 Administrator submitted a Title 22 Engineering Report addressing the treatment and distribution of recycled water (pursuant to 22 CCR section 60323). The State Water Board's Division of Drinking Water (DDW) (previously the California Department of Public Health (CDPH) and Department of Health Services) reviewed and approved the Title 22 Engineering Reports for each Region 2 Administrator after January 1, 2001. The approval dates for each Region 2 Administrator are listed in Notice Attachment 2. The Title 22 Engineering Reports describe the facility treatment information, recycled water application, and the water recycling program, as required by Sections I, II, and III of State General Order Attachment A and Regional General Order Attachment B.
2. **Recycled Water Program Manuals.** Each Region 2 Administrator has submitted its Recycled Water Program Manual in accordance with the Regional General Order, which describes the water recycling program and its administration, as required by Sections III and V of State General Order Attachment A and Regional General Order Attachment B.
3. **Site Specific Conditions.** Letters issued by the CDPH, DDW, or the Regional Water Board that contain site-specific conditions and/or restrictions, such as ultraviolet (UV) disinfection system operating conditions, are on file and addressed in the conditions of this Notice and Notice Attachment A, as required by Section IV of State General Order Attachment A and Regional General Order Attachment B.
4. **Annual Reports.** Each Region 2 Administrator has submitted annual reports for years. These annual reports address operating conditions and contain information required in Sections I through V of State General Order Attachment A.

Accordingly, this Notice hereby transitions the Region 2 Administrators from the Regional General Order to the State General Order, effective April 8, 2020. Coverage under the Regional General Order is terminated as of April 8, 2020, for the listed Region 2 Administrators. Except for enforcement purposes, the Regional General Order has no further force and effect for the listed Region 2 Administrators.

The Monitoring and Reporting Program (Notice Attachment 4) includes some changes compared to the requirements in the Regional General Order. Because the new monitoring requirements will be implemented after the 2020 calendar year has begun, Region 2 Administrators may not have collected all required monitoring data for the full year. Region 2 Administrators should address any missing data and the time that was needed to fully implement monitoring changes in the 2020 annual report due on April 30, 2021.

## **II. Conditions of Enrollment in State General Order**

The Regional Water Board may, in accordance with the Recycled Water Policy and the State General Order, specify additional monitoring requirements or other conditions of enrollment under the State General Order. Accordingly, in order to maintain coverage under the State General Order, each Region 2 Administrator is required to operate consistently with: (A) its approved Title 22 Engineering Report, (B) any conditions of DDW's approval of the Title 22 Engineering Report; (C) applicable portions of the California Water Code (Water Code) and Uniform Statewide Recycling Criteria; (D) the applicable Recycled Water Quality Requirements set forth below; and (E) the Monitoring and Reporting Program found in Notice Attachment 4. These requirements are described in more detail below.

### **A. Title 22 Engineering Report**

The Title 22 Engineering Report for each facility includes technical documentation of the recycled water treatment design, plans, and criteria, and methods of operation, maintenance, and control of recycled water uses. Notice Attachment 2 lists the dates of (1) submission of each Region 2 Administrator's Title 22 Engineering Report, (2) DDW approval, and (3) Regional General Order enrollment, in addition to the treatment level, filtration type, and disinfection type for each facility. UV disinfection transmittance and dose are also included for the recycled water facilities that use UV disinfection. Each Region 2 Administrator must ensure compliance with the following at its facility:

1. The Region 2 Administrator may authorize and implement water recycling projects in accordance with the approved program and approved Title 22 Engineering Report. Requirements for non-potable uses of recycled water are contained in 22 CCR sections 60303 through 60307.
2. The Region 2 Administrator is required to obtain Regional Water Board and DDW written approval for any changes to the Administrator's approved program prior to implementing the changes. For example: new recycled water use types, treatment methods, or distribution methods not already described in the Administrator's approved program.

3. The Region 2 Administrator is responsible for assuring the Title 22 Engineering Report on file with the Regional Water Board and DDW remains current and accurate.

## **B. Division of Drinking Water Conditions**

The Region 2 Administrators shall operate their recycled water facilities in accordance with any provisions and conditions provided by DDW in their facility-specific Title 22 Engineering Report, conditions stated in DDW Title 22 Engineering Report approval letters, and DDW acceptance letters for alternative treatment technology, UV disinfection system operating conditions, and filter loading rates resulting from water reuse studies.

## **C. Water Code and Uniform Statewide Recycling Criteria**

Recycled water distribution and uses permitted under the State General Order shall comply with the applicable requirements of Water Code sections 13500-13577; 17 CCR sections 7583-7586 and 7601-7605; and 22 CCR sections 60301-60355 (the Uniform Statewide Recycling Criteria).

1. The production, distribution, and use of recycled water shall conform to the Region 2 Administrator's Notice of Intent, as described in Section I, above, including the DDW-approved Title 22 Engineering Report.
2. The use of recycled water shall not cause pollution or nuisance, as defined by Water Code section 13050.
3. Each Region 2 Administrator shall ensure that recycled water distributed and used is treated to the level listed in Notice Attachment 2 corresponding with each Region 2 Administrator's DDW approved Title 22 Engineering Report:
  - a. Disinfected secondary-23 recycled water as defined in 22 CCR section 60301.225.
  - b. Disinfected secondary-2.2 recycled water as defined in 22 CCR section 60301.220.
  - c. Disinfected tertiary recycled water as defined in 22 CCR section 60301.230.
4. Region 2 Administrators shall comply with the water recycling use area requirements stated in 22 CCR section 60310.
5. Region 2 Administrators shall notify the Regional Water Board of recycled water spills or unauthorized releases in accordance with the Regional Water Board's recycled water spill notification protocol (Notice Attachment 5).
6. Any discharge of untreated or partially treated wastewater to a use area(s), and the cessation of the same, shall be reported immediately by email and telephone to the Regional Water Board, DDW, and the local health officer, in accordance with 22 CCR 60329.
7. The discharge of recycled water to wetlands, surface waters, surface water drainage courses, or biologically sensitive areas is prohibited, except as authorized by a

separate NPDES Permit, Waste Discharge Requirements, or Water Reclamation Requirements.

#### **D. Recycled Water Quality Requirements**

1. Region 2 Administrators that are authorized to distribute and/or use **disinfected secondary-23** level recycled water shall ensure that the recycled water meets the following total coliform bacteria limits established in the water recycling criteria at 22 CCR section 60301.225:
  - a. Not to exceed 23 MPN / 100 mL median concentration utilizing the bacteriological results of the last seven days (rolling seven day median) for which analyses have been completed; and
  - b. Not to exceed 240 MPN / 100 mL in more than one sample in any 30-day period.
2. Region 2 Administrators that are authorized to distribute and/or use **disinfected secondary-2.2** level recycled water shall ensure that the recycled water meets the following total coliform bacteria limits established in the water recycling criteria at 22 CCR section 60301.220:
  - a. Not to exceed 2.2 MPN / 100 mL median concentration utilizing the bacteriological results of the last seven days (rolling seven day median) for which analyses have been completed; and
  - b. Not to exceed 23 MPN / 100 mL in more than one sample in any 30-day period.
3. Region 2 Administrators that are authorized to distribute and/or use **disinfected tertiary** level recycled water shall ensure that the recycled water meets the following water quality limits described in the water recycling criteria for filtered wastewater at 22 CCR section 60301.320 and for disinfected tertiary recycled water at 22 CCR sections 60301.230, 60304, or 60307, as applicable:
  - a. The filtered wastewater shall be disinfected by either:
    - i. A chlorine disinfection process following filtration that provides a CT (the product of total chlorine residual and modal contact time measured at the same point) value of not less than 450 milligram-minutes per liter at all times with a modal contact time of at least 90 minutes, based on peak dry weather design flow; or
    - ii. A disinfection process that, when combined with the filtration process, has been demonstrated to inactivate and/or remove 99.999 percent of the plaque forming units of F-specific bacteriophage MS2, or polio virus in the wastewater.

The Region 2 Administrators listed in Notice Attachment 2 that distribute and/or use recycled water from treatment plants that use ultraviolet (UV) systems to satisfy disinfection requirements per 22 CCR section 60301.230(a)(2) shall ensure that the recycled water treatment system UV disinfection system is operated in accordance

with DDW conditions and approved UV Disinfection Operations and Maintenance Manual or DDW conditional approval letters. The UV disinfection system must be operated in accordance with an operations and maintenance program that assures adequate disinfection, and shall meet the minimum specifications to provide virus inactivation equivalent to the disinfected tertiary recycled water requirements.

- b. Total coliform measured in the disinfected effluent shall not exceed the following:
  - i. 2.2 MPN / 100 mL median concentration utilizing the bacteriological results of the last seven days (rolling seven day median) for which analyses have been completed;
  - ii. 23 MPN / 100 mL in more than one sample in any 30-day period; and
  - iii. 240 MPN / 100 mL maximum of any sample.
- c. The turbidity of filtered oxidized wastewater that has been coagulated and passed through natural undisturbed soils or a bed of filter media shall meet the following filter loading rate and turbidity criteria:
  - i. The filter loading rate shall not exceed:
    - 1. 5 gallons per minute per square foot of surface area in mono, dual or mixed media gravity, upflow or pressure filtration systems, or
    - 2. 2 gallons per minute per square foot of surface area in traveling bridge automatic backwash filters, or
    - 3. The facility-specific DDW-approved filter loading rate.
  - ii. Turbidity shall not exceed:
    - 1. An average of 2 NTU within a 24-hour period;
    - 2. 5 NTU more than 5 percent of the time within a 24-hour period; and
    - 3. 10 NTU at any time.
- d. The turbidity of filtered oxidized wastewater that has passed through a microfiltration, ultrafiltration, nanofiltration, or reverse osmosis membrane filtration shall not exceed the following:
  - i. 0.2 NTU more than 5 percent of the time within a 24-hour period; and
  - ii. 0.5 NTU at any time.
- e. The turbidity of filtered oxidized wastewater that has passed through natural undisturbed soils or a bed of filter media that has **not** been coagulated shall meet the turbidity limits and applicable uses established in 22 CCR sections 60304(a) or 60307(a), as applicable.

The referenced turbidity limits are:

- i. Filter effluent turbidity does not exceed 2 NTU;
- ii. Turbidity of the influent to the filters is continuously measured;
- iii. Influent turbidity does not exceed 5 NTU for more than 15 minutes and never exceeds 10 NTU; and
- iv. There is a capability to automatically activate chemical addition or divert the wastewater should the filter influent turbidity exceed 5 NTU for more than 15 minutes.

## **E. Monitoring and Reporting**

1. Notice Attachment 4, Monitoring and Reporting Program (MRP), requires annual reporting of monitoring conducted pursuant to the State General Order. The monitoring year runs from January 1 through December 31 of each year. Reports shall be submitted annually by not later than **April 30**<sup>1</sup> following the monitoring year, with the first annual report under the State General Order due not later than April 30, 2021. The final annual report under the Regional General Order is due not later than April 30, 2020.
2. The Region 2 Administrator shall ensure that disinfected secondary-23, disinfected secondary-2.2, and disinfected tertiary recycled water for distribution and use are sampled at least once daily for total coliform bacteria. The samples shall be taken from the disinfected effluent and shall be analyzed by an approved laboratory as defined by 22 CCR section 60301.100.
3. The Region 2 Administrator shall ensure that disinfected tertiary recycled water is continuously sampled for turbidity using a continuous turbidity meter and recorded following filtration. Compliance with the daily average operating filter effluent turbidity shall be determined by averaging the levels of recorded turbidity taken at four-hour intervals over a 24-hour period. The daily average operating filter effluent turbidity limits are: for media filters, 2 NTU average within a 24-hour period and 5 NTU more than 5 percent of the time within a 24-hour period; for membrane filters, 0.2 NTU more than 5 percent of the time within a 24-hour period.<sup>2</sup>

Pursuant to 22 CCR section 60321(b), should the continuous turbidity meter and recorder fail and the recycled water is stored for distribution or distributed, grab sampling at a minimum frequency of 1.2-hours may be substituted for a period of up to 24 hours, to determine compliance with the disinfected tertiary daily average turbidity limits.
4. The Region 2 Administrator shall monitor recycled water volumes and report annually to the State Water Board's online GeoTracker database by April 30 of each calendar year in accordance with State Water Board Order No. WQ 2019-0037-

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<sup>1</sup> The MRP found in Notice Attachment 4 is issued by the Executive Officer of the Regional Water Board and supersedes the MRP found in Attachment B of the State General Order. The annual report due date of April 30 was selected to be consistent with the State Water Board's annual volumetric reporting due date. The April 1 due date found in Attachment B of the State General Order is not applicable.

<sup>2</sup> Media includes natural undisturbed soils or a bed of filter media. Membrane includes microfiltration, ultrafiltration, nanofiltration, or reverse osmosis membrane.

EXEC (Notice Attachment 6). The volumetric reporting requirements are included in the Monitoring and Reporting Program. The data shall be submitted to the GeoTracker database under a site-specific global identification number assigned by the State Water Board. The GeoTracker system is accessible online at:

<https://geotracker.waterboards.ca.gov/>

Guidance documents are also accessible online at:

- a. Help Guide for Volumetric Annual Report in GeoTracker:  
[https://www.waterboards.ca.gov/ust/electronic\\_submittal/docs/var\\_helpguide.pdf](https://www.waterboards.ca.gov/ust/electronic_submittal/docs/var_helpguide.pdf)
- b. Electronic Submittal of Information Beginner's Guide for Responsible Parties:  
[https://www.waterboards.ca.gov/ust/electronic\\_submittal/docs/geotracker\\_esi\\_rp\\_beginners\\_guide\\_revisedoct2019.pdf](https://www.waterboards.ca.gov/ust/electronic_submittal/docs/geotracker_esi_rp_beginners_guide_revisedoct2019.pdf)
- c. Frequently Asked Questions: Volumetric Annual Reporting of Wastewater and Recycled Water:  
[https://www.waterboards.ca.gov/water\\_issues/programs/water\\_recycling\\_policy/docs/2020/faq\\_volumetric\\_annual\\_reporting.pdf](https://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/docs/2020/faq_volumetric_annual_reporting.pdf)

### **III. Annual Fees**

Region 2 Administrators are responsible for paying an annual fee to the Regional Water Board in accordance with Water Code section 13260. As of the date of this Notice, the annual fee for all Region 2 Administrators is \$2,625. The Annual Fee Schedule is subject to change annually and is accessible online at:

[https://www.waterboards.ca.gov/resources/fees/water\\_quality/#wdr](https://www.waterboards.ca.gov/resources/fees/water_quality/#wdr)

The annual fee is specified in the annual billing from the State Water Board unless and until its coverage under the State General Order has been terminated in writing by the State or Regional Water Board. To terminate coverage voluntarily, a Region 2 Administrator must submit in writing a Notice of Termination that includes, at a minimum, the Administrator's name and contact information, facility name and address, and reason for requesting termination of coverage. However, termination shall not be considered effective until the State or Regional Water Board provides written approval of the Notice of Termination.

### **IV. Authorization for Coverage under Order WQ 2016-0068-DDW**

I hereby approve the regulation of the listed Region 2 Administrators under the State General Order. This authorization allows the Region 2 Administrators to continue to administer non-potable recycled water programs in accordance with the State General Order and the requirements described herein. Failure to abide by the conditions of this Notice, the conditions specified by DDW on the review of the Title 22 Engineering Report, the State General Order, Title 22 Water Recycling Criteria, and the Monitoring and Reporting Program could result in enforcement actions, as authorized by the Water Code and section C of the State General Order.



April 8, 2020

If you have any questions or would like to discuss further, contact Melissa Gunter of my staff via email to [melissa.gunter@waterboards.ca.gov](mailto:melissa.gunter@waterboards.ca.gov) or at (510) 622-2390.

Sincerely,



for Michael Montgomery  
Executive Officer

Attachments:

1. Region 2 Administrator Information
2. Recycled Water Facility Information
3. State General Order WQ 2016-0068-DDW
4. Monitoring and Reporting Program
5. Regional Water Board Spill Notification Protocol
6. Volumetric Reporting Order No. WQ 2019-0037-EXEC

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## Attachment 1: Recycled Water Program Administrator Information

Region 2 Administrator	Facility Name	Facility Address	CIWQS <sup>3</sup> Place No.
American Canyon City Public Works Department	American Canyon Water Recycling Program - American Canyon Water Reclamation Facility	151 Mezzetta Court, American Canyon, 94503	764886
Calistoga City Public Works Department	Calistoga Recycled Water Program - Calistoga City Dunaweal Wastewater Treatment Plant (WWTP)	1232 Washington Street, Calistoga, 94515	212749
Central Contra Costa Sanitary District	Central Contra Costa Sanitary District Water Recycling - Central Contra Costa Sanitary District WWTP & Water Recycling Plant	5019 Imhoff Place, Martinez, 94553	741394
Dublin San Ramon Services District (DSRSD)	Dublin San Ramon Services District Water Recycling - DSRSD WWTP - Jeffrey G. Hansen Water Recycling Facility	7399 Johnson Drive, Pleasanton, 94588	643640
East Bay Municipal Utility District (EBMUD)	EBMUD Recycled Water- East Bayshore Project - EBMUD WWTP	2020 Wake Avenue, Oakland, 94607	753305
East Bay Municipal Utility District	EBMUD Recycled Water- Richmond Advanced Recycled Expansion (RARE) Advanced Recycled Water Plant	525 Castro Street, Richmond, 94801	753205
Fairfield Suisun Sewer District	Fairfield-Suisun Water Recycling - Fairfield-Suisun WWTP	1010 Chadbourne Road, Fairfield, 94534	224084
Las Gallinas Valley Sanitary District	Las Gallinas Recycled Water Facility	300 Smith Ranch Rd San Rafael, 94903	779440
North Marin Water District	North Marin Water District Recycled Water Distribution - Novato Sanitary District Recycled Water Facility & Las Gallinas Recycled Water Facility	500 Davidson Street, Novato, 94945 300 Smith Ranch Road, San Rafael, 94903	772664
North San Mateo County Sanitary District (NSMCSD)	NSMCSD (Daly City) Water Recycling Program - NSMCSD WWTP	153 Lake Merced Blvd., Daly City, 94015	244722
North San Mateo County Sanitary District	NSMCSD - Harding Park Recycled Water – NSMCSD WWTP	99 Harding Road, San Francisco, 94132	742856
North Marin Water District	Novato Sanitary District & North Marin Water District Recycled Water <sup>4</sup> - Deer Island Recycled Water Facility	Highway 37, Novato, 94945	757331
Novato Sanitary District	Novato Sanitary District Recycled Water - Davidson Street RWTF	500 Davidson Street, Novato, 94945	769213
City of Pacifica & North Coast County Water District	Pacifica Recycled Water Project - Calera Creek Water Recycling Plant	700 Coast Highway, Pacifica, 94044	759193

<sup>3</sup> CIWQS denotes the Water Board's California Integrated Water Quality System electronic database.

<sup>4</sup> The Novato Sanitary District is the producer of the Deer Island Recycled Water Facility and the North Marin Water District is the Distributor.

<b>Region 2 Administrator</b>	<b>Facility Name</b>	<b>Facility Address</b>	<b>CIWQS<sup>3</sup> Place No.</b>
City of Petaluma	City of Petaluma Water Recycling Program – Ellis Creek Water Recycling Facility	3890 Cypress Drive, Petaluma, 94954	248081
City of Pleasanton	Pleasanton City Recycled Water Program - DERWA <sup>5</sup> Jeffrey G. Hansen Water Recycling Facility and City of Livermore Water Reclamation Plant	3333 Busch Road, Pleasanton, 94566	812113
City of San Carlos	Residential Recycled Water Fill Station - Silicon Valley Clean Water WWTP	1000 Bransten Road, San Carlos, 94070	840765
City of San Leandro	San Leandro Recycled Water-Monarch Bay Golf Course - San Leandro Water Pollution Control Plant - Residential Fill Station	13800 Monarch Bay Drive, San Leandro, 94577	642939
Santa Clara Valley Water District	Silicon Valley Advanced Water Purification Center	4190 Zanker Road, San Jose, 95134	777018
Redwood City – Silicon Valley Water	Silicon Valley Clean Water Recycled Water <sup>6</sup> – Silicon Valley Clean Water WWTP	1400 Radio Road, Redwood City, 94065	255832
Sonoma Valley County Sanitation District (SVCSD)	SVCSD Recycled Water Program – SVCSD WWTP	22675 8th Street East, Sonoma, 95476	257753
Town of Yountville	Yountville Water Recycling - Yountville Wastewater Reclamation Facility	7501 Solano Avenue, Yountville, 94599	274528

<sup>5</sup> DERWA indicates Dublin San Ramon Services District - East Bay Municipal Utility District Recycled Water Authority, which is a joint powers authority.

<sup>6</sup> Silicon Valley Clean Water consists of the cities of Redwood City, Belmont, and San Carlos, and the West Bay Sanitary District.

## Attachment 2: Recycled Water Facility Information

Facility Name	Title 22 Engineering Report Date <sup>7</sup>	DDW Approval Date	Regional General Order Enrollment Date	Treatment Level	Filtration Type	Disinfection Type	Minimum UV Transmittance (percent)	Minimum UV Dose (mJ/cm <sup>2</sup> )	NPDES Permit <sup>8</sup>
American Canyon Water Reclamation Facility	06-23-2005	07-05-2005	07-01-2005	Disinfected tertiary	Membrane Bioreactor (MBR)	Chlorine	Not Applicable (N/A)	N/A	CA0038768
Calistoga City Dunaweal Wastewater Treatment Plant (WWTP)	11-19-2004	04-29-2005	05-03-2005	Disinfected tertiary	Sand (DynaSand)	Liquid Chlorine	N/A	N/A	CA0037966
Central Contra Costa Sanitary District WWTP & Water Recycling Plant	03-2006	03-20-2006	05-09-1997	Disinfected tertiary	Dual media (sand & anthracite)	Chlorine	N/A	N/A	CA0037648
Dublin San Ramon Services District WWTP - Jeffrey G. Hansen Water Recycling Facility	06-01-2018	06-01-2018	10-31-2018	Disinfected tertiary	Microfiltration or Sand	Ultraviolet	≥ 65 Micro / ≥ 55 Sand	≥ 80 Micro ≥ 100 Sand	CA0037613
East Bay Municipal Utility District (EBMUD) WWTP (East Bayshore Project)	11-01-2006	05-04-2007	03-28-2002	Disinfected tertiary	Microfiltration	Sodium Hypochlorite	N/A	N/A	CA0037702

<sup>7</sup> The Title 22 Engineering Report Date indicates the most recent date.

<sup>8</sup> NPDES denotes National Pollutant Discharge Elimination System.

Attachment 2: Facility Information  
 Enrollment Letter, Order WQ 2016-0068-DDW  
 Water Reclamation Requirements for Recycled Water Use

April 8, 2020

Facility Name	Title 22 Engineering Report Date <sup>7</sup>	DDW Approval Date	Regional General Order Enrollment Date	Treatment Level	Filtration Type	Disinfection Type	Minimum UV Transmittance (percent)	Minimum UV Dose (mJ/cm <sup>2</sup> )	NPDES Permit <sup>8</sup>
EBMUD Richmond Advanced Recycled Expansion Advanced Recycled Water Plant	11-12-2009	02-04-2010	06-29-2010	Disinfected tertiary	Microfiltration & Reverse Osmosis	Chlorine at WWTP <sup>9</sup>	N/A	N/A	CA0005134
Fairfield-Suisun Water Recycling	04-01-2011	08-01-2011	10-31-2011	Disinfected secondary-23	Dual Media (sand & anthracite)	Ultraviolet	≥ 65	≥ 40	CA0038024
Las Gallinas Recycled Water-Tertiary Recycled Water Facility	01-01-2012	02-03-2012	05-01-2012	Disinfected tertiary	Membrane Ultrafiltration	Ultraviolet	≥ 65	≥ 100	CA0037851
North Marin Water District Recycled Water Distribution – Novato Sanitary District Recycled Water Facility & Las Gallinas Recycled Water Facility	08-09-2011	08-15-2011	12-15-2011	Disinfected tertiary	Novato: Sand Las Gallinas: Membrane Ultrafiltration	Ultraviolet	Novato: N/A Las Gallinas: ≥ 65	Novato: N/A Las Gallinas: ≥ 100	CA0037958 CA0037851
North San Mateo County Sanitary District (NSMCSD) WWTP	07-15-2003	07-27-2004	07-30-2004	Disinfected tertiary	Sand	Chlorine	N/A	N/A	CA0037737

<sup>9</sup> Chlorine is used for disinfection at the West County Wastewater District Treatment Plant prior to the Richmond Advanced Recycled Expansion Water Project at Chevron's Refinery.

Facility Name	Title 22 Engineering Report Date <sup>7</sup>	DDW Approval Date	Regional General Order Enrollment Date	Treatment Level	Filtration Type	Disinfection Type	Minimum UV Transmittance (percent)	Minimum UV Dose (mJ/cm <sup>2</sup> )	NPDES Permit <sup>8</sup>
North San Mateo County Sanitary District Harding Park Recycled Water - NSMCSD WWTP	08-17-2012	09-27-2012	10-19-2012	Disinfected tertiary	Sand	Chlorine	N/A	N/A	CA0037737
Novato Sanitary District & NMWD Deer Island RWTF	11-01-2003	02-05-2004	03-01-2004	Disinfected tertiary	Sand	Sodium Hypochlorite	N/A	N/A	CA0037958
Novato Sanitary District Davidson Street RWTF	09-24-2018	11-01-2018	03-30-2012	Disinfected tertiary	Sand (continuous backwash)	Sodium Hypochlorite	N/A	N/A	CA0037958
City of Pacifica Calera Creek Water Recycling Plant	12-22-2011	03-29-2012	06-14-2012	Disinfected tertiary	Deep Bed Denite	Ultraviolet	55 to 67 Flow dependent <sup>10</sup>	≥ 100	CA0038776
Petaluma City Ellis Creek Water Recycling Facility	09-09-2005	10-12-2005	10-21-2005	Disinfected tertiary	Sand (continuous up-flow)	Ultraviolet	≥ 54	≥ 100	CA0037810

<sup>10</sup> Per the CDPH letter dated March 29, 2012, the Calera Creek Water Recycling Facility UV disinfection system transmittance ranges are dependent upon the flow as follows: (a) permit flow up to 7.95 MGD or 5,520 gpm, ≥ 67 % ultraviolet transmittance (UVT) (b) 7.65 MGD or 5,313 gpm, ≥ 66 % UVT (c) flow up to 7.36 MGD or 5,110 gpm, ≥ 65 % UVT (d) flow up to 7.07 MGD or 4,912 gpm, ≥ 64 % UVT (e) flow up to 6.79 MGD or 4,719 gpm, ≥ 63 % UVT, (f) flow up to 6.52 MGD or 4,530 gpm, ≥ 62 % UVT (g) flow up to 6.26 MGD or 4,346 gpm, ≥ 61 % UVT (h) flow up to 6.0 MGD or 4,167 gpm, ≥ 60 % UVT (i) flow up to 5.75 MGD or 3,992 gpm, at or above 59 % UVT (j) flow up to 5.50 MGD or 3,822 gpm, ≥ 58 % UVT (k) flow up to 5.26 MGD or 3,656 gpm, ≥ 57 % UVT (l) flow up to 5.03 MGD or 3,495 gpm, ≥ 56 % UVT and (m) flow up to 4.81 MGD or 3,338 gpm, ≥ 55 % UVT.

Facility Name	Title 22 Engineering Report Date <sup>7</sup>	DDW Approval Date	Regional General Order Enrollment Date	Treatment Level	Filtration Type	Disinfection Type	Minimum UV Transmittance (percent)	Minimum UV Dose (mJ/cm <sup>2</sup> )	NPDES Permit <sup>8</sup>
City of Pleasanton – DSRSD Jeffrey G. Hansen Water Recycling Facility and City of Livermore Water Reclamation Plant	05-28-2015	06-23-2015	07-09-2015	Disinfected tertiary	Sand or Microfiltration & Mono-media <sup>11</sup>	Ultraviolet <sup>12</sup>	DSRSD: ≥ 65 Micro / ≥ 55 Sand  Livermore: ≥ 55	DSRSD: ≥ 80 Micro ≥ 100 Sand  Livermore: ≥ 100	CA0038008
San Leandro Water Pollution Control Plant	08-14-2006	10-26-2006	01-25-2007	Disinfected secondary-23 & Tertiary <sup>13</sup>	Multi-media	Sodium Hypochlorite	N/A	N/A	CA0037869
Silicon Valley Advanced Water Purification Center	08-01-2011	08-31-2012	12-12-2012	Advanced purified <sup>14</sup>	Microfiltration & Reverse Osmosis	Ultraviolet	95% if reverse osmosis used upstream of UV (normal operations) 63% if microfiltration used upstream of UV	50 if RO used u/s of UV; 80 if MF used u/s of UV	CA0037842
Silicon Valley Clean Water WWTP - Redwood City	08-05-2004	10-19-2004	07-07-2000	Disinfected tertiary	Dual Media (sand & anthracite)	Sodium Hypochlorite	N/A	N/A	CA0038369

<sup>11</sup> The Jeffrey G. Hansen Water Recycling Facility uses sand filtration during high demand periods, mainly from March through October. Microfiltration is primarily used as back-up to sand filtration and generally during November through February. The City of Livermore Water Reclamation Plant uses mono-media filtration.

<sup>12</sup> Ultraviolet disinfection is used at both the Jeffrey G. Hansen Water Recycling Facility and City of Livermore Water Reclamation Plant that provide recycled water to the City of Pleasanton.

<sup>13</sup> Recycled water is produced at the San Leandro Water Pollution Control Plant to disinfected secondary-23 treatment level for irrigation uses and disinfected tertiary for use at the residential fill station.

<sup>14</sup> Currently, the purified water produced at the Silicon Valley Advanced Water Purification Center is blended with the existing recycled water supply produced at the neighboring San Jose-Santa Clara Regional Wastewater Facility to enhance quality and expand its usage.

Attachment 2: Facility Information  
 Enrollment Letter, Order WQ 2016-0068-DDW  
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April 8, 2020

Facility Name	Title 22 Engineering Report Date <sup>7</sup>	DDW Approval Date	Regional General Order Enrollment Date	Treatment Level	Filtration Type	Disinfection Type	Minimum UV Transmittance (percent)	Minimum UV Dose (mJ/cm <sup>2</sup> )	NPDES Permit <sup>8</sup>
Silicon Valley Clean Water WWTP- City of San Carlos Fill Station	05-2017	07-17-2017	10-26-2017	Disinfected tertiary	Dual Media (sand & anthracite)	Sodium Hypochlorite	N/A	N/A	CA0038369
Sonoma Valley County Sanitation District WWTP	11-08-2013	08-30-2013	12-03-2013	Disinfected tertiary	Cloth Media Disk	Chlorine	N/A	N/A	CA0037800
Yountville Wastewater Reclamation Facility	04-16-2004	10-31-2005	11-04-2005	Disinfected secondary- 2.2	Fuzzy Filter (synthetic fiber spheres)	Chlorine	N/A	N/A	CA0038121



## **Attachment 3**

State Water Resources Control Board Order WQ 2016-0068-DDW  
Water Reclamation Requirements for Recycled Water Use

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**STATE WATER RESOURCES CONTROL BOARD  
ORDER WQ 2016-0068-DDW**

**WATER RECLAMATION REQUIREMENTS  
FOR RECYCLED WATER USE**

**Adoption Date  
June 7, 2016**



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STATE WATER RESOURCES CONTROL BOARD  
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FOR RECYCLED WATER USE

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<b>ACRONYMS AND ABBREVIATIONS</b>	
AGR	Agricultural supply
Antidegradation Policy	State Water Board Resolution 68-16, the Statement of Policy with Respect to Maintaining High Quality of Waters in California
AQUA	Aquaculture
Basin Plan	Water Quality Control Plan
BPTC	Best practicable treatment or control
CDPH	California Department of Public Health
CEC	Contaminants of Emerging Concern
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
DBP	Disinfection By-products
Delta	Sacramento-San Joaquin River Delta Estuary
DDW	Division of Drinking Water
DWR	Department of Water Resources
E. coli	Escherichia coli
e.g.	Latin <i>exempli gratia</i> (for example)
FRESH	Fresh water replenishment
gpd	gallons per day
GWR	Groundwater recharge
IND	Industrial service supply
mg/L	Milligrams per liter
MPN	Most Probable Number
MRP	Monitoring and Reporting Program
MUN	Municipal supply
MOA	Memorandum of Agreement
NOA	Notice of Applicability
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric Turbidity Unit
pdf	Portable Document Format
PROC	Industrial process supply
REC-1	Water contact recreation
Regional Water Board	Regional Water Quality Control Board
State Water Board	State Water Resources Control Board
TBD	To Be Determined
TDS	Total Dissolved Solids
TMDL	Total Maximum Daily Load
Water Boards	State Water Board and Regional Water Boards
WILD	Wildlife habitat
WDRs	Waste Discharge Requirements
WRRs	Water Reclamation Requirements

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**FINDINGS:**

The State Water Resources Control Board (State Water Board) finds that:

**BACKGROUND INFORMATION**

1. On January 17, 2014, California's Governor proclaimed a [Drought State of Emergency](#) and directed state officials to take all necessary actions to prepare for drought conditions. On March 1, 2014, the Governor signed bipartisan drought relief legislation, Senate Bill (SB) 103 and 104, modifying the Budget Act of 2013 (Stats. 2013, ch. 20 and 354) to provide additional funds for drought relief. (Stats. 2014, ch. 2 and 3, respectively).
2. On April 25, 2014, the Governor proclaimed a continued State of Emergency due to severe drought conditions and directed the State Water Board to "adopt statewide general waste discharge requirements to facilitate the use of treated wastewater that meets standards set by the California Department of Public Health (CDPH) in order to reduce demand on potable water supplies."
3. California experiences frequent drought conditions. The recent emergency actions follow a similar Declaration of Statewide Drought in effect from 2008 through 2011 ([Executive Order S-06-08](#)) and Drought Declaration State of Emergency in effect from 2009 through 2011 ([Executive Order S-11-09](#)). Drought conditions in California also persisted from 1987 through 1992. Paleoclimatologists have reconstructed medieval climate episodes from tree ring studies, sediment deposition, and other sources. These studies show that the most severe droughts during the past 1,000 years have lasted from 20 to more than 150 years.<sup>1</sup>
4. On June 3, 2014, the State Water Board adopted [Water Quality Order 2014-0090-DWQ](#), *General Waste Discharge Requirements for Recycled Water Use* to streamline permitting of recycled water use statewide.
5. Order WQ 2014-0090-DWQ was adopted to facilitate recycled water use and reduce demand on potable water supplies; this General Order further encourages recycled water projects by (1) maintaining the streamlined approach in permitting new Users through a water recycling program and (2) providing the option for a single recycled water use permit coverage for larger Users that typically need permit coverage from multiple Regional Water Boards. Enrollees issued a Notice of Applicability (NOA) under order WQ 2014-0090-DWQ must

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<sup>1</sup> Michael Dettinger, *Droughts, Epic Droughts and Droughty Centuries—Lessons from California's Paleoclimatic Record: A PACLIM 2001 Meeting Report*, (Summer 2001) Interagency Ecological Program Newsletter, at p. 50.

notify the State Water Board of its intention to be regulated under this General Order.

6. Prior to July 1, 2014, CDPH provided public health recommendations to the Water Boards through review and approval of Title 22 Engineering Reports prepared pursuant to California Code of Regulations, title 22, section 60323. The Water Boards then issue permits. Effective July 1, 2014, the administration of the Drinking Water Program, including responsibility for review of Title 22 Engineering Reports was transferred from the CDPH to the State Water Board.
7. "Recycled water" means water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource. (Wat. Code, § 13050(n).) Coverage under these Water Reclamation Requirements (WRRs) for Recycled Water Use (General Order) is limited to treated municipal wastewater for uses consistent with the Uniform Statewide Recycling Criteria, and other uses approved by the State Water Board on a case-by-case basis, other than direct or indirect potable uses. An estimated 1.85 to 2.25 million acre-feet of water supply could be realized annually through recycling by the year 2030.<sup>2</sup> Of this total amount, an estimated 0.9 million to 1.4 million acre-feet of recycled water could be realized through recycling of municipal wastewater that is discharged into the ocean or saline bays. Downstream beneficial uses will be protected by requiring compliance with Water Code section 1211, as described in the Antidegradation Analysis section of this General Order.
8. Recycled water use can help to reduce local water scarcity. It is not the only option for bringing supply and demand into a better balance, but it is a viable cost effective solution that is appropriate in many cases. The feasibility of recycled water use depends on local circumstances, which affect the balance of costs and benefits. In drought conditions, recycled water can be particularly valuable, given the scarcity of alternative supplies. In normal precipitation years recycled water use may reduce groundwater extraction.
9. The California Legislature has declared that a substantial portion of the future water requirements of the state may be economically met by beneficial use of recycled water. (Wat. Code, § 13511.) The Legislature also expressed its intent that the state undertakes all possible steps to encourage development of water recycling facilities so that recycled water may be made available to help meet the growing water requirements of the state. (Wat. Code, § 13512.)
10. On February 3, 2009, the State Water Board adopted [Resolution 2009-0011](#), Adoption of a Policy for Water Quality Control for Recycled Water (Recycled Water Policy) (Revised January 22, 2013, effective April 25, 2013.) The

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2 California Department of Water Resources, Bulletin 160-2009, p. 11-9.

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Recycled Water Policy promotes the use of recycled water to achieve sustainable local water supplies and reduce greenhouse gas emissions.

11. Water recycling is an essential part of an overall program to manage local and regional water resources. Many local governing bodies have adopted resolutions establishing their intent to proceed with planning, permitting, and implementation of recycled water projects. These projects will provide water supply and municipal wastewater disposal benefits for communities, and will provide water supply benefits to agriculture.
12. The Uniform Statewide Recycling Criteria was established for the protection of public health and are codified in the California Code of Regulations, title 22, division 4, chapter 3 (herein referred to as Uniform Statewide Recycling Criteria). Approved uses of recycled water under the Uniform Statewide Recycling Criteria depend on the level of treatment and potential for public contact. Under the Uniform Statewide Recycling Criteria, recycled water is categorized based on treatment levels. There are four categories of recycled water relevant to this General Order; they are listed here and defined in the indicated regulations section:
  - a. Undisinfected secondary recycled water (Cal. Code Regs., tit. 22, § 60301.900.)
  - b. Disinfected secondary-23 recycled water (Cal. Code Regs., tit. 22, § 60301.225.)
  - c. Disinfected secondary-2.2 recycled water (Cal. Code Regs., tit. 22, § 60301.220.)
  - d. Disinfected tertiary recycled water (Cal. Code Regs., tit. 22, § 60301.230.)

An approved Title 22 Engineering Report addressing protection of public health is required before authorization to use recycled water is granted by the Regional Water Board Executive Officer.

13. When used in compliance with the Recycled Water Policy, the Uniform Statewide Recycling Criteria, and all applicable state and federal water quality laws, the State Water Board finds that recycled water is safe for approved uses, and strongly supports recycled water as a safe alternative to raw and potable water supplies for approved uses.
14. This General Order authorizes beneficial, non-potable recycled water uses consistent with the Uniform Statewide Recycling Criteria and any additional requirements specified in the Notice of Applicability. Activities that are not authorized by this Order include:



- a. Activities designed to replenish groundwater resources. Groundwater replenishment activities include surface spreading basins, percolation ponds, or injection through groundwater wells<sup>3</sup>.
  - b. Disposal of treated wastewater by means of percolation ponds, excessive hydraulic loading of recycled water in use areas, etc., where the primary purpose of the activity is disposal of treated wastewater.
  - c. Direct potable reuse (Wat. Code, § 13561(b)), indirect potable reuse for groundwater recharge (Wat. Code, § 13561(c)), or surface water augmentation (Wat. Code, § 13561(d)).
15. There are many sources of salts and nutrients in surface and groundwater, including water soluble inorganic and organic constituents in imported water, leaching of naturally occurring salts in soils as a result of irrigation and precipitation, animal wastes, fertilizers and other soil amendments, municipal use including water softeners, industrial wastewater, and oil field wastewater. In coastal areas and areas adjacent to the Sacramento-San Joaquin Delta, seawater intrusion is also a source of salinity in groundwater, particularly in over-drafted basins. Imported water is a major source of salt. In water year 2010, 45 percent of the surface water used in the San Joaquin Valley was imported from the Sacramento-San Joaquin Delta through the Delta Mendota Canal, Folsom South Canal, and California Aqueduct (DWR).<sup>4</sup> In an average year, more than 800,000 tons of salt are imported from the Sacramento-San Joaquin River Delta Estuary (Delta) into the northern portion of the San Joaquin Valley, and another two million tons of salt are imported into the Tulare Lake Basin.<sup>5</sup> Southern California also imports significant water supplies from the Delta. In addition, it imports 4.4 million acre-feet of water each year from the Colorado River. Colorado River water has, on average, twice the salinity of northern California water sources, and water imported from the Delta is blended with Colorado River supplies to control salinity. The use of recycled water for irrigation has the potential to increase salts and other constituents in groundwater, but is not expected to be a significant source of salt loading relative to other potential sources, particularly when recycled water is used in the same watershed in which it would otherwise be discharged. Basin-specific salt and nutrient management plans, however, will provide definitive information on where assimilative capacity is available.

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3 Injection well is defined in Water Code 13051.

4 Water Recycling and Desalination Section, California Department of Water Resources.

5 Department of Water Resources, Water Facts-Salt Balance in the San Joaquin Valley <[http://www.water.ca.gov/pubs/environment/salt\\_balance\\_in\\_the\\_san\\_joaquin\\_valley\\_water\\_facts\\_20/\\_water\\_facts\\_20.pdf](http://www.water.ca.gov/pubs/environment/salt_balance_in_the_san_joaquin_valley_water_facts_20/_water_facts_20.pdf)>, accessed 3 April 2014.

16. Use of recycled water has the potential to increase nutrients in groundwater supplies. In order to minimize the nutrient loading, this Order requires that recycled water used for irrigation purposes be applied at agronomic rates.
17. The Recycled Water Policy calls on local water and wastewater entities together with other stakeholders who contribute salt and nutrients to a groundwater basin or sub-basin, to fund and develop Salt and Nutrient Management Plans to comprehensively address all sources of salts and nutrients. The State Water Board herein reasserts the need for comprehensive salt and nutrient management planning and directs that salinity and nutrient increases should be managed in a manner consistent with the Recycled Water Policy. It is the intent of the Recycled Water Policy that every groundwater basin/sub-basin in California ultimately has a consistent Salt and Nutrient Management Plan. The appropriate way to address salt and nutrient issues is through the development of regional or subregional Salt and Nutrient Management Plans.
18. The Recycled Water Policy includes monitoring requirements for Constituents of Emerging Concern<sup>6</sup> (CECs) for the use of recycled water for groundwater recharge by surface and subsurface application methods. The monitoring requirements and criteria for evaluating monitoring results in the Recycled Water Policy are based on recommendations from a Science Advisory Panel.<sup>7</sup> Because this General Order is limited to non-potable uses and does not authorize groundwater replenishment activities, monitoring for CECs is not required.
19. The Recycled Water Policy requires permits for landscape irrigation with recycled water to include priority pollutant monitoring at the recycled water production facility. Annual monitoring is required for design production flows greater than one million gallons per day; a five year monitoring frequency is required for flows less than one million gallons per day. Priority pollutants are listed in Appendix A of 40 Code of Federal Regulations (CFR) Part 423.

### **STATUTORY AND REGULATORY ISSUES**

20. Pursuant to Water Code section 13523, the Regional Water Board, after consulting with and receiving the recommendation of the State Water Board, may prescribe water reclamation requirements for water that is used or proposed to be used as recycled water. The requirements shall be established in

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6 For this Policy, CECs are defined to be chemicals in personal care products, pharmaceuticals including antibiotics, antimicrobials; industrial, agricultural, and household chemicals; hormones; food additives; transformation products, inorganic constituents; and nanomaterials.

7 The Science Advisory Panel was convened in accordance with provision 10.b of the Recycled Water Policy. The panel's recommendations were presented in the report; *Monitoring Strategies for Chemicals of Emerging Concern (CECs) in Recycled Water - Recommendations of a Science Advisory Panel*, dated June 25, 2010.

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conformance with the Uniform Statewide Recycling Criteria pursuant to Water Code section 13521. Pursuant to Water Code section 13523 (b), the requirements for use of recycled water not addressed by the Uniform Statewide Recycling Criteria will be considered on a case-by-case basis by Regional Water Boards, after consulting with and receiving the recommendations of the State Water Board. The State Water Board provides such recommendations through acceptance letters for Title 22 Engineering Reports. These recommendations become requirements of the Order when specified in the Notice of Applicability.

21. Pursuant to Water Code section 13528.5, the State Water Board may carry out duties and authority granted to a Regional Water Board pursuant to the Water Code, division 7, chapter 7, including the authority to prescribe water reclamation requirements pursuant to Water Code section 13523.
22. Pursuant to Water Code section 13241 and 13263, the State Water Board, in establishing the requirements contained herein, considered factors including, but not limited to, the following:
  - a. Past, present, and probable future beneficial uses of water;
  - b. Environmental characteristics of the hydrographic unit under consideration, including the quality of water available thereto;
  - c. Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area;
  - d. Economic considerations;
  - e. The need for developing housing within the region(s); and
  - f. The need to develop and use recycled water.
23. Pursuant to Water Code section 106.5, it is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This General Order promotes that policy by encouraging uses of recycled water. Such uses must be consistent with the requirements of California Code of Regulations (including the Uniform Statewide Recycling Criteria). This General Order furthers the human right to water by encouraging use of recycled water thus reducing demand on other other sources, including use of potable water used for non-potable uses where recycled water is available.
24. Technical and monitoring reports specified in this General Order are required pursuant to Water Code section 13267. Failing to furnish the reports by the due date or falsifying information in the reports is a misdemeanor that may result in assessment of civil liabilities against the Discharger. Water Code section 13267 states, in part:

“In conducting an investigation specified in subdivision (a), the regional board may require that any person who has discharged, discharges, or is

suspected of having discharged or discharging, or who proposes to discharge waste within its region, or any citizen or domiciliary, or political agency or entity of this state who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of waters within its region shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. 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. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports. ... (f) the State Board may carry out the authority granted to a regional board pursuant to this section.”

The technical reports required by this General Order, the NOI, and the Monitoring and Reporting Program (MRP) are necessary to assure compliance with this General Order. The burden and cost of preparing the reports are reasonable and consistent with the best interest of the people of the state in maintaining water quality.

25. This General Order is applicable to recycled water projects where recycled water is used or transported for non-potable uses (for example: landscape irrigation, irrigation of crops and pasture land, construction, fire suppression, hydrostatic testing, etc.) This General Order does not regulate the treatment of wastewater. Compliance with this General Order does not relieve producers or distributors from the obligation to comply with applicable Waste Discharge Requirements (WDRs) for discharges from wastewater treatment plants, other than the recycled water uses described herein.
26. The uses of recycled water described in this General Order are exempt from the requirements of Consolidated Regulations for Treatment, Storage, Processing, or Disposal of Solid Waste in California Code of Regulations, title 27, division 2, subdivision 1, section 20005, et seq. The activities are exempt from the requirements of title 27 so long as the activity meets, and continues to meet, all preconditions listed below. (Cal Code Regs., tit. 27, § 20090.)
  - a. Sewage—Discharges of domestic sewage or treated effluent which are regulated by WDRs issued pursuant to California Code of Regulations, title 23, division 3, chapter 9, or for which WDRs have been waived, and which are consistent with applicable water quality objectives, and treatment or storage facilities associated with municipal wastewater treatment plants, provided that residual sludge or solid waste from wastewater treatment facilities shall be discharged only in accordance with the applicable State Water Board promulgated provisions of this division. (Cal. Code Regs., tit. 27, § 20090(a).)

- b. Wastewater—Discharges of wastewater to land, including but not limited to evaporation ponds, percolation ponds, or subsurface leach fields if the following conditions are met: (1) the applicable Regional Water Board has issued WDRs, reclamation requirements, or waived such issuance; (2) the discharge is in compliance with the applicable water quality control plan; and (3) the wastewater does not need to be managed according to, California Code of Regulations, title 22, division 4.5, chapter 11, as a hazardous waste. (Cal. Code Regs., tit. 27, § 20090(b).)
- c. Reuse – Recycling of other use of materials salvaged from waste or produced by waste treatment, such as scrap metal, compost, and recycled chemicals, provided that discharges of residual wastes from recycling or treatment operations to land shall be according to applicable provisions of Title 27 regulations.(Cal. Code Regs., tit. 27, § 20090(h).)

### ANTIDEGRADATION ANALYSIS

- 27. [State Water Board Resolution No. 68-16](#), the *Statement of Policy with Respect to Maintaining High Quality of Waters in California* (the Antidegradation Policy) requires that disposal of waste into the waters of the state be regulated to achieve the highest water quality consistent with the maximum benefit to the people of the state. The quality of some waters is higher than established by adopted policies and that higher quality water shall be maintained to the maximum extent possible consistent with the Antidegradation Policy. The Antidegradation Policy requires the following:
  - a. Higher quality water will be maintained until it has been demonstrated to the state that any change will be consistent with the maximum benefit to the people of the state, will not unreasonably affect present and anticipated beneficial use of the water, and will not result in water quality less than that prescribed in the policies.
  - b. Any activity that produces a waste or may produce waste or increased volume or concentration of waste and discharges to existing high quality waters will be required to meet waste discharge requirements that will result in the best practicable treatment or control (BPTC) of the discharge necessary to assure pollution or nuisance will not occur, and the highest water quality consistent with the maximum benefit to the people of the state will be maintained.
- 28. This General Order regulates discharges to groundwater basins throughout the state. There is not sufficient data to determine which groundwater basins are high quality waters for the various constituents that may be associated with recycled water. To the extent use of recycled water may result in a discharge to a groundwater basin that contains high quality water, this General Order authorizes limited degradation consistent with the Antidegradation Policy as described in the findings below. Further, Salt and Nutrient Management Plans,

developed in accordance with the Recycled Water Policy, will require analysis on an ongoing basis to evaluate inputs to the basin, the salt and nutrient mass balance, and the available assimilative capacity.

29. This General Order requires BPTC, which is a combination of treatment, storage, and application methods that implement the requirements of the Uniform Statewide Recycling Criteria and the Regional Water Board Water Quality Control Plans (Basin Plans). Recycled water is generated by treating (primarily) domestic wastewater adequately to make the water suitable for a direct beneficial use that would not otherwise occur. The required level of treatment corresponds to the proposed use of the recycled water. In addition, this General Order includes requirements regarding the storage and application of recycled water to protect water quality and limit public contact to recycled water, where appropriate. Wastewater treatment can be accomplished many different ways, but generally consists of physical, chemical, and/or biological methods. Depending upon the use of the recycled water, disinfection may be performed. In addition to the treatment processes, this General Order also requires the following control measures:
  - a. Recycled water use shall not cause unacceptable groundwater and/or surface water degradation.
    - i. Regional Water Boards have discretion regarding permitting storage of recycled water in unlined ponds. Applicants shall improve storage facilities if deemed necessary by a Regional Water Board.
    - ii. Application of recycled water is limited to agronomic rates, which limits the potential for significant amounts of recycled water to impact groundwater quality and allows plants to take up wastewater constituents such as nitrogen compounds.
    - iii. Recycled water use shall be controlled to prevent significant runoff from application areas. This General Order authorizes use of recycled water for application to land, where recycled water is further treated in natural soil processes.
  - b. Recycled water shall not create nuisance conditions.
    - i. The Uniform Statewide Recycling Criteria requires wastewater to be oxidized, which removes putrescible matter and requires dissolved oxygen. Maintaining dissolved oxygen in the wastewater will generally prevent nuisance odors.
    - ii. Application of recycled water is controlled to prevent airborne spray from entering dwellings, eating areas, or food handling areas.
    - iii. Application of recycled water to saturated soil is prohibited. Application to saturated soil reduces the soil treatment processes and may create conditions for mosquito breeding.

- c. Recycled water shall only be used consistent with the Uniform Statewide Recycling Criteria and any other requirements specified in the Notice of Applicability.
  - i. A written approval of a Title 22 Engineering Report must be obtained from the State Water Board before a Notice of Applicability (NOA) can be issued.
  - ii. Uses of recycled water are subject to category-specific use area signage, and monitoring frequency requirements as specified in the Uniform Statewide Recycling Criteria. Uses not addressed by the Uniform Statewide Recycling Criteria will be considered on a case-by-case basis by Regional Water Boards, after consulting with and receiving the recommendations of the State Water Board. These recommendations become requirements of the Order when specified in the Notice of Applicability.
  - iii. Uses of recycled water are subject to backflow prevention, cross connection tests, and setback requirements for surface impoundments, wells, etc. as contained in the Uniform Statewide Recycling Criteria and California Code of Regulations, title 17, division 1, article 2.
- 30. In an arid climate, such as the climate that exists in most of California, the maximum benefit to the people of the state can only be achieved by ensuring long and short-term protection of economic opportunities, public health, and environmental protection. In order to do that, water uses must be better matched to water quality and use of local supplies must be encouraged to the extent possible, including reusing water that would otherwise flow to the ocean or other salt sinks without supporting beneficial uses during transmission. The use of recycled water in place of both raw and potable water supplies for the non-potable uses allowed under this General Order improves water supply availability and helps to ensure that higher quality water will continue to be available for human uses and for instream uses for fish and wildlife. It also reduces the need for groundwater pumping that has resulted in permanent loss of aquifer storage capacity and land subsidence in some parts of the state.

As required by the Antidegradation Policy, the State Water Board finds that the limited degradation of water that may occur as the result of recycling under the conditions of this General Order provides maximum benefit to the people of California, provided recycled water treatment and use are managed to ensure long-term reasonable protection of beneficial uses of waters of the state. Recycled water available for reuse under this General Order has been treated at a wastewater treatment plant to levels that comply with permits issued by the State Water Board or Regional Water Boards pursuant to the Clean Water Act for discharges to waters of the United States or the Porter Cologne Water Quality Control Act for discharges to land. Treatment technologies required under these

laws and permits include secondary and/or tertiary treatment and disinfection when needed for pathogen reduction.

The Uniform Statewide Recycling Criteria imposes limitations on the uses of recycled water, based on the level of treatment and the specific use in this General Order to protect public health. By restricting the use of recycled water to those meeting the Uniform Statewide Recycling Criteria, this General Order ensures that recycled water is used safely. To the extent that the use of recycled water may result in some waste constituents entering the environment after effective source control, treatment, and control measures are implemented, the conditions of this General Order limiting the use of recycled water to agronomic rates is part of the suite of treatment, storage and applications measures that comprise BPTC for uses with frequent or routine application, such as landscape or agricultural irrigation. Other types of uses that may be approved, such as dust control, firefighting, hydrostatic testing, and other short term or infrequent application are unlikely to result in sufficient loading of waste constituents that impact water quality.

31. Constituents associated with recycled water that have the potential to degrade groundwater include salinity, nutrients, pathogens (represented by coliform bacteria), disinfection by-products (DBPs), constituents of emerging concern (CECs), and endocrine disrupting chemicals (EDCs). If the discharge is not consistent with Basin Plan requirements, the applicant may elect to improve treatment to enroll under this General Order, or to apply for a site-specific order from the Regional Water Board. The State Water Board finds that the use of recycled water permitted under this General Order will not unreasonably affect beneficial uses or result in water quality that is less than that prescribed in applicable policies. The characteristics and requirements associated with each of the recycled water constituents of concern are discussed below:
  - a. Salinity is measured in water through various measurements, including but not limited to, total dissolved solids (TDS) and electrical conductivity. Excessive salinity can impair the beneficial uses of water. Salinity levels in the receiving water can be affected by the use of recycled water if the recycled water has elevated concentrations of salinity. However, it is anticipated that in most cases, the use of recycled water for irrigation will consist of a portion of the total applied irrigation water. Other sources of irrigation water are likely to be potable water, imported water, agricultural water supply wells, irrigation districts (surface water supplies), and precipitation. The blending of sources of irrigation water (e.g. recycled water blended with stormwater) will generally reduce concentrations of, and/or loading rates of salinity constituents. As a result, salinity increases in use areas where the irrigation water is a blend of water sources are less likely to impair an existing and/or potential beneficial use of groundwater.



- b. Nitrogen is a nutrient that may be present in recycled water at a concentration that can degrade groundwater quality. This General Order requires application of recycled water to take into consideration nutrient levels in recycled water and nutrient demand by plants. Application of recycled water at agronomic rates and considering soil, climate, and plant demand minimizes the movement of nutrients below the plants' root zone. When applied to cropped (or landscaped) land, some of the nitrogen in recycled water will be taken up by the plants, lost to the atmosphere through volatilization of ammonia or denitrification, or stored in the soil matrix. As a result, nitrogen increases are unlikely to impair an existing and/or potential beneficial use of groundwater.
- c. Pathogens and other microorganisms may be present in recycled water based on the disinfection status. Coliform bacteria are used as a surrogate (indicator) because they are present in untreated wastewater, survive in the environment similar to pathogenic bacteria, and are easy to detect and quantify. Pathogens are generally limited in their mobility when applied to land.

Setbacks from recycled water use areas are required in the Uniform Statewide Recycling Criteria as a means of reducing pathogenic risks by coupling pathogen inactivation rates with groundwater travel time to a domestic water supply well or other potential exposure route (e.g. water contact activities). In general, a substantial unsaturated zone reduces pathogen survival compared to saturated soil conditions. Fine grained soil particles (silt or clay) reduce the rate of groundwater transport and therefore are generally less likely to transport pathogens. Setbacks also provide attenuation of other recycled water constituents through physical, chemical, and biological processes.

When needed, disinfection can be performed in a number of ways. The Uniform Statewide Recycling Criteria lists disinfection requirements for specifically listed activities.

- d. Disinfection by-products (DBPs) consist of organic and inorganic substances produced by the interaction of chemical disinfectants with naturally occurring substances in the water source. Common disinfection by-products include trihalomethanes, haloacetic acids, bromate, and chlorite. DBPs present in recycled water receive additional treatment when applied to land. Biodegradation, adsorption, volatilization, and other attenuative processes that occur naturally in soil will reduce the concentrations and retard migration of DBPs in the subsurface.
- e. Chemicals of Emerging Concern (CECs) in recycled water as they pertain to the State Water Board's Recycled Water Policy are defined to be chemicals in personal care products, pharmaceuticals including antibiotics, antimicrobials; industrial, agricultural, and household chemicals; hormones;

food additives; transformation products, inorganic constituents; and nanomaterials. CECs are new classes of chemicals, diverse, and relatively unmonitored chemicals. Many of them are so new that standardized measurement methods and toxicological data for interpreting their potential human or ecosystem health effects are unavailable. The State Water Board convened a CEC Advisory Panel to address questions about regulating CECs with respect to the use of recycled water. The Panel's primary charge was to provide guidance for developing monitoring programs that assess potential CEC threats from various water recycling practices, including groundwater recharge/reuse and urban landscape irrigation. The Panel provided recommendations for monitoring specific CECs in recycled water used for groundwater recharge/reuse. Monitoring of health-based CECs or performance indicator CECs is not required for recycled water used for landscape irrigation due to the low risk of ingestion of the water. These recommendations were made part of the Recycled Water Policy. This General Order does not provide coverage for groundwater recharge activities or production of recycled water.

- f. Endocrine disrupting chemicals (EDCs) are mostly man-made, found in various materials such as pesticides, metals, additives, or contaminants in food, and personal care products. Human exposure to EDCs occurs via ingestion of food, dust and water, via inhalation of gases and particles in the air, and through the skin. Perchlorate is an EDC that may be present in hypochlorite solutions, which is a type of disinfectant used for wastewater. Formation of perchlorate in hypochlorite solution can be minimized when proper manufacturing, handling, and storage conditions are followed. Perchlorate accumulation has been documented in fruit and seed bearing crops and leafy vegetation irrigated with perchlorate contaminated water. Recycled water currently makes up less than one percent of California agricultural water supply. Much of the recycled water used for agricultural irrigation is either undisinfected or is disinfected by means that do not result in perchlorate generation, such as ultraviolet light and chlorine gas. Some sources of agricultural water supply in some areas of the state contain perchlorate, such as surface water from Colorado River or groundwater sources in areas near industrial or military application sites (e.g. Riverside, San Bernardino, and Los Angeles counties). The blending of sources of irrigation water will further reduce any concentration of perchlorate present in recycled water and will be unlikely to affect beneficial uses or degrade groundwater quality.
32. The use of recycled water that would otherwise be discharged to a watercourse can adversely affect the availability of water for beneficial uses of water downstream of the discharge point, including in-stream uses. Water Code section 1211 requires that: (1) the owner of any wastewater treatment plant obtain the approval of the State Water Board before making any change in the

point of discharge, place of use, or purpose of use of treated wastewater where changes to the discharge or use of treated wastewater have the potential to decrease the flow in any portion of a watercourse, and (2) the State Water Board review the proposed changes pursuant to the provisions of Water Code section 1700 *et seq.* In order to approve the proposed change, the State Water Board must determine that the proposed change will not operate to the injury of any legal user of the water involved. (Wat. Code, §1702.) The State Water Board also has an independent obligation to consider the effect of the proposed change on public trust resources and beneficial uses established for areas downstream of the discharge point, and to protect those resources where feasible. (*National Audubon Society v. Superior Court* (1983) 33 Cal.3d 419 [189 Cal. Rptr. 346].)

33. This General Order authorizes uses of recycled water statewide. If an existing or proposed use of recycled water seeking coverage under this General Order could result in water quality degradation as described below, the Regional Water Board's Executive Officer shall notify the applicant/discharger of the need to either revise the proposed/existing project, or apply for or continue coverage under a site-specific order of the Regional Water Board. The Regional Water Board's Executive Officer or the State Water Board's Executive Director (or designee) shall explain the need for a revised project, design, operation, or coverage under a different order, by making one or more of the following findings in the NOI response letter:
- a. The proposed use of recycled water is not consistent with Findings 27 through 32 of this General Order, which collectively provide for compliance with antidegradation findings for projects covered by this General Order. The degradation may be from salinity, nitrogen compounds, pathogens, disinfection by-products, or other substances.
  - b. The proposed method of recycled water storage in unlined ponds is not consistent with Findings 27 through 32 of this General Order, which collectively provide for compliance with antidegradation findings for projects covered by this General Order. The degradation may be from salinity, nitrogen compounds, pathogens, disinfection by-products, or other substances.
  - c. The proposed use of recycled water or method of recycled water storage will cause or contribute to pollution or nuisance, or otherwise fail to comply with the applicable Basin Plan or State Water Board plans or policies.
  - d. The proposed use of recycled water does not implement mitigation measures in a California Environmental Quality Act (CEQA) document.
  - e. The proposed use of recycled water is not consistent with a Total Maximum Daily Load (TMDL) waste load or load allocation, or implementation plan as adopted by the Regional Water Board and made part of the Regional Water Board's Basin Plan.

- f. The proposed use of recycled water is not consistent with the Basin Plan provisions for implementing a Salt and Nutrient Management Plan.

### **PURPOSE AND APPLICABILITY**

- 34. The State Water Board recognizes the need for streamlined permitting consistent with the State Water Board's Recycled Water Policy. The State Water Board's intention in the issuance of this statewide order is to provide consistent regulation of non-potable uses of recycled water statewide. To provide such consistency, the State Water Board intends that regulatory coverage under an existing Regional Water Board general order or conditional waiver for non-potable uses of recycled water (landscape irrigation, golf course irrigation, dust control, street sweeping, etc.) will be terminated by the applicable Regional Water Board within three (3) years after adoption of this General Order. Enrollees covered by a Regional Water Board general order or conditional waiver for non-potable uses of recycled water may continue discharging under that authority until the applicable Regional Water Board issues a Notice of Applicability to an Administrator per the terms of this Order. Enrollees under Order WQ 2014-0090-DWQ will be transferred for coverage under this General Order.
- 35. This document serves as a statewide General Order authorizing the use of recycled water by Producers, Distributors, and Users for uses consistent with the Uniform Statewide Recycling Criteria, other than direct or indirect potable reuse. The intent of this General Order is to streamline the permitting process and delegate the responsibility of administering water recycling programs to an Administrator to the fullest extent possible. The following may apply for coverage under this General Order and agree to become the Administrator:
  - a. Producers of recycled water: Producers may be publicly or privately owned. A Producer will typically produce recycled water that meets the requirements of the Uniform Statewide Recycling Criteria. A Producer may also act as an Administrator.
  - b. Distributors of recycled water: In some cases, a Distributor may provide additional treatment (such as disinfection) to meet the Uniform Statewide Recycling Criteria for its intended use, and distribute it to Users. A Distributor is not required to take physical possession of the recycled water and may act simply as an Administrator.
  - c. Users of recycled water: Users take physical possession of the recycled water from Producers and/ or Distributors for an approved beneficial recycled water use consistent with Uniform Statewide Recycling Criteria. A User that takes physical possession of recycled water may act as an Administrator and distribute to other Users. Users of recycled water may also use the recycled water under a Water Recycling Use Permit from another Administrator.

- d. A legal entity: A joint powers agreement or equivalent contractual agreement between a Producer, Distributor, irrigation district, or other entity. Similar to a Distributor, a legal entity is not required to take physical possession of the recycled water and may act simply as an Administrator.
36. To obtain coverage under this General Order, the applicant shall submit an NOI (Attachment A) and an application fee to the Regional Water Board of jurisdiction. An applicant proposing a water recycling program that covers recycled water use areas within multiple Regional Water Board jurisdictions may submit an NOI (Attachment A) and application fee to the State Water Board. Fee amounts are in accordance with California Code of Regulations, title 23, division 3, chapter 9, article 1. The applicant shall declare responsibility for the administration of the water recycling program authorized pursuant to this General Order. The applicant shall describe a program they will administer to ensure that recycled water use complies with the requirements of the Uniform Statewide Recycling Criteria, and this General Order. Upon authorization by the State or Regional Water Board, the applicant then becomes the Administrator. The Administrator shall be billed for an annual fee until coverage under the General Order is terminated.
37. Pursuant to Water Code section 13554.2, any person or entity proposing the use of recycled water shall reimburse the State Water Board for reasonable costs incurred in performing duties relevant to the implementation of regulatory oversight related to protection of public health for uses of recycled water.
38. This General Order does not authorize discharges of pollutants from point sources to water of the United States, thus the use of recycled water allowed pursuant to the terms of this General Order are not subject to National Pollutant Discharge Elimination System (NPDES) permits. To the extent that this General Order results in agricultural irrigation return flows entering waters of the United States, such return flows are not subject to NPDES permits (33 U.S.C., §1342(l)(1)) but may be subject to waste discharge requirements or conditional waivers as adopted by Regional Water Boards. Where such waste discharge requirements or conditional waivers exist, this General Order requires that uses of recycled water comply with their provisions.
39. The State Water Board recognizes the need to allow a centralized enrollment process under this General Order to facilitate opportunities for non-potable uses of recycled water by a single entity that may occur in more than one Regional Water Board jurisdictions (for example: hydrostatic testing of utility pipelines owned by a utility company or landscape irrigation at facilities managed by other state agencies). An NOI may be submitted to the State Water Board for such uses of recycled water, when managed by a single Administrator and subject to the corresponding recycled water quality, use area requirements, and reliability features.

40. Enrollment under this General Order may serve as additional authorization for new uses of recycled water presently not covered under existing WDRs, Master Reclamation Permits, or WRRs, as long as such new uses meet the requirements of this General Order and an approved Title 22 Engineering Report. A User that serves as an Administrator may use the additional authorization provided by this General Order to obtain recycled water from other Producers or Distributors permitted under other existing WDRs, Master Reclamation Permits, or WRRs.
41. Agricultural operations subject to waste discharge requirements or waivers of waste discharge requirements regulating discharges from irrigated lands may obtain authorization pursuant to this General Order to use recycled water for irrigation. Such authorization may take the form of a Water Recycling Use Permit from an Administrator covered by this General Order, or the agricultural operation may enroll as its own Administrator. The State Water Board recognizes the need to simplify regulation of recycled water use on agricultural lands. Pursuant to Water Code section 13267, Regional Water Boards' Executive Officers may modify the MRP to prevent duplication of monitoring and reporting activities that satisfy the requirements of both orders.

#### **BASIN PLANS AND BENEFICIAL USES**

42. Beneficial uses of groundwater are determined by each Regional Water Board and are listed in their respective Basin Plans. Beneficial uses for groundwater are: municipal supply (MUN), industrial service supply (IND), industrial process supply (PROC), fresh water replenishment (FRESH), aquaculture (AQUA), wildlife habitat (WILD), water contact recreation (REC-1), agricultural supply (AGR), and groundwater recharge (GWR). Some beneficial uses only apply to certain geographical areas within regions.
43. Basin Plans establish water quality objectives to protect beneficial uses. The water quality objectives may be narrative, numerical, or both. This General Order requires proposed recycled water uses to comply with Basin Plan requirements. Determination of compliance with the Basin Plan is part of the application process.

#### **CEQA AND PUBLIC NOTICE**

44. On April 25, 2014, the Governor issued an Executive Order declaring a continued state of emergency due to severe drought conditions. Directive No. 10 of the Executive Order directs the State Water Board to adopt statewide general waste discharge requirements to facilitate the use of treated wastewater that meets standards set by CDPH, in order to reduce demand on potable water supplies. Effective July 1, 2014 the authority to establish such standards was transferred from CDPH to the State Water Board. This General Order is intended to satisfy the Directive No. 10 requirement. Directive No. 19 of the Executive Order provides that the California Environmental Quality Act (CEQA)

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requirement to conduct an environmental review is suspended to allow the State Water Board to adopt this General Order as quickly as possible.

45. On November 13, 2015, the Governor issued an Executive Order (B-36-15) extending suspension of Division 13 (commencing with section 21000) of the Public Resources Code and regulations adopted pursuant to that Division in the January 17, 2014 Proclamation, April 25, 2014 Proclamation, and Executive Orders B-26-14, B-28-14, and B-29-15. The suspension will remain in effect until the drought state of emergency is terminated. The suspension also applies to the adoption of water reclamation requirements by the State Water Board that serve the purpose of paragraph 10 of the April 25, 2014 Proclamation.
46. The State Water Board has notified interested agencies and persons of its intent to prescribe these WRRs, and has provided them the opportunity to attend a public meeting and to submit their written views and recommendations.
47. The State Water Board, in a public meeting, heard and considered all comments pertaining to this matter.

**IT IS HEREBY ORDERED** that Order WQ 2014-0090-DWQ is hereby rescinded except for enforcement purposes, effective 60 calendar days after adoption of this General Order ("Effective Date").

To enroll under this General Order, a prospective enrollee must file an NOI indicating its intention to be regulated under the provisions of this General Order, and receive authorization from the appropriate Regional Water Board. A prospective enrollee that intends to obtain authorization from multiple Regional Water Boards may file an NOI and receive authorization from the State Water Board.

To obtain coverage under this General Order, an enrollee under Order WQ 2014-0090-DWQ must notify the State Water Board of its intention to be regulated under this General Order. See Attachment A, "Who May Apply." Coverage will terminate on the Effective Date for any existing enrollee that fails to submit the required documentation.

Pursuant to Water Code sections 13263, 13267, 13523 and 13523.1, enrollees under this Order, in order to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, shall comply with the requirements in this Order.

#### **A. PROHIBITIONS**

1. The treatment, storage, distribution, or use of recycled water shall not cause or contribute to a condition of pollution as defined in Water Code section 13050(l) or nuisance as defined in Water Code section 13050(m).
2. Recycled water shall not be applied for irrigation during periods when soils are saturated.

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3. Recycled water shall not be allowed to escape from the use area(s) as surface flow that would either pond and/or enter surface waters, unless authorized by WDRs, waivers of WDRs, or conditional prohibitions regulating agricultural discharges from irrigated lands.
4. Spray or runoff shall not enter a dwelling or food handling facility and shall not contact any drinking water fountain, unless specifically protected with a shielding device. If the recycled water is undisinfected secondary or disinfected secondary-23 quality then spray or runoff shall not enter any place where public access is not restricted during irrigation.
5. The incidental runoff of recycled water shall not result in water quality less than that prescribed in water quality control plans or policies unless authorized through time schedule provisions in WDRs, waivers of WDRs, or conditional prohibitions regulating agricultural discharges from irrigated lands.

Recycled water shall not be discharged from treatment facilities, irrigation holding tanks, storage ponds, or other containment, other than for permitted use in accordance with this General Order; Regional Water Board issued WDRs, WRRs, or Master Reclamation Permits; NPDES permits; or a contingency plan in an approved Water Recycling Use Permit.

6. There shall be no cross-connection between potable water supply and piping containing recycled water. All Users of recycled water shall provide for appropriate backflow protection for potable water supplies as specified in California Code of Regulations, title 17, section 7604 or as determined by the State Water Board on a case-by-case basis to protect public health.
7. This General Order authorizes certain beneficial recycled water uses consistent with Uniform Statewide Recycling Criteria. The following activities are not authorized by this General Order:
  - a. Activities designed to replenish groundwater resources. Groundwater replenishment activities include surface spreading basins, percolation ponds, or injection through groundwater wells.
  - b. Disposal of treated wastewater by means of percolation ponds, excessive hydraulic loading of application areas, or any other method, where the primary purpose of the activity is the disposal of treated wastewater.
  - c. Direct potable reuse (Wat. Code, § 13561(b)), indirect potable reuse for groundwater recharge (Wat. Code, § 13561(c)), or surface water augmentation (Wat. Code, § 13561(d)).
8. The use of recycled water in violation of the applicable Regional Water Board's Basin Plan is prohibited.



## **B. SPECIFICATIONS**

1. Recycled water distribution and use permitted under this General Order shall be in compliance with all of the following requirements:
  - a. Regulations related to recycled water (including its subsequent revisions) contained in California Code of Regulations, title 17, sections 7583 – 7586, sections 7601 – 7605, and California Code of Regulations, title 22, sections 60001 – 60355.
  - b. All requirements of this General Order.
  - c. An approved Title 22 Engineering Report that demonstrates or defines compliance with the Uniform Statewide Recycling criteria (and amendments).
  - d. The NOA issued by the Regional Water Board or State Water Board.
  - e. Applicable Salt and Nutrient Management Plan adopted by the Regional Water Board as a Basin Plan Amendment.
  - f. WDRs or NPDES permits for recycled water production facilities, to the extent that the WDRs or NPDES permits include provisions that address recycled water.
  - g. Any applicable water quality related CEQA mitigation measure.
  - h. Water Code section 1211 for facilities where the changes to the discharge are necessary to accomplish water recycling and will result in changes in flow in a watercourse.
  - i. Policy for Water Quality Control for Recycled Water (Recycled Water Policy)
2. The Administrator shall discontinue delivery of recycled water during any period in which it has a reason to believe that the quality of the delivered recycled water is not meeting the Uniform Statewide Recycling Criteria specification. The Administrator shall notify the Regional Water Board, and the State Water Board if it issued the NOA, within one (1) business day of determining that delivery of off-specification recycled water has taken place. In circumstances where the emergency requires termination of delivery to Users, the Regional Water Board, and the State Water Board if it issued the NOA, shall be copied on any correspondence concerning non-compliance between the Administrator and User. This notification does not supersede any notification requirements contained within a Producer's WDRs or Master Reclamation Permit for production facilities.
3. Uses of recycled water with frequent or routine application (for example: agricultural or landscape irrigation uses) shall be at agronomic rates and shall consider soil, climate, and plant demand. In addition, application of recycled water and use of fertilizers shall be at a rate that takes into consideration nutrient levels in recycled water and nutrient demand by plants. The State or Regional Water Board may require the Administrator to submit an Implementation or

Operations and Management Plan specifying agronomic rates and nutrient application for the use area(s) and a set of reasonably practicable measures to ensure compliance with this General Order. An Administrator may submit a nutrient management plan developed to comply with another Water Board's order, such as waste discharge requirements or a waiver regulating discharges from irrigated lands, in lieu of an Implementation or Operations and Management Plan. Other uses of recycled water that are infrequent (for example: dust control, firefighting, hydrostatic testing, etc.) must also be addressed by a set of reasonably practicable measures within an Implementation or Operations and Management Plan.

### **C. WATER RECYCLING ADMINISTRATION REQUIREMENTS**

1. Applicants seeking coverage under this General Order shall submit an NOI in accordance with Attachment A. Responsibilities for an Administrator shall be described in the NOI.
2. Coverage under this General Order becomes effective when the State or Regional Water Board issues an NOA. The Regional Water Board and the State Water Board will coordinate to include Title 22 Engineering Report requirements and conditions of approval.
3. Under this General Order, the Administrator's program shall be implemented to accomplish compliance with Specification B.1. Upon State or Regional Water Board approval of the Administrator's program, which shall accompany the NOI, the Administrator may authorize and/or implement water recycling projects, in accordance with the Administrator's approved program and the approved Title 22 Engineering Report. The Administrator shall obtain written approvals for any changes to the Administrator's approved program, for example: new recycled water use types or distribution methods not already described in the Administrator's approved program.
4. The Administrator shall establish and enforce rules or regulations for recycled water uses governing the design and construction of recycled water use facilities and the use of recycled water in accordance with Specification B.1.
5. A User acting as a water recycling program Administrator is subject to the conditions of its water recycling program prepared in accordance with Specification B.1. A User acting as a water recycling program Administrator is responsible to implement water recycling administration requirements applicable to Users and Administrators as described in Water Recycling Administration Requirements C.1 – C.16.
6. The Administrator shall inspect to ensure that cross-connections between potable water and non-potable water systems have not been created and that backflow prevention devices are in proper working order by conducting or requiring User testing in accordance with the Uniform Statewide Recycling Criteria and California Code of Regulations, title 17, section 7605. Reports of

testing and maintenance shall be maintained by the Administrator. The Administrator may use a third party agent to perform this task, however, the Administrator is solely responsible for compliance with conditions of this permit and the approved water recycling program.

7. The Administrator shall ensure recycled water meets the quality standards of this General Order and shall be responsible for the operation and maintenance of major transport facilities and associated appurtenances. If an entity other than the Administrator has actual physical and ownership control over the recycled water transport facilities, the Administrator may delegate operation and maintenance responsibilities for such facilities to that entity. The Administrator shall require the use of the recycled water to be in accordance with the Uniform Statewide Recycling Criteria and to comply with this General Order, including requirements to apply only at agronomic rates and not cause unauthorized degradation, pollution, or nuisance. If not the same entity, the Producer shall provide water quality data and communicate to Users the nutrient levels in the recycled water.
8. The Administrator shall conduct periodic inspections of the User's facilities and operations to determine compliance with conditions of the Administrator requirements and this General Order. The Administrator shall take whatever actions are necessary, including the termination of delivery of recycled water to the User, to correct any User violations. The Administrator may use a third party agent to perform this task, however, the Administrator is solely responsible for compliance with conditions of this permit and the approved water recycling program.
9. The Administrator shall comply with all applicable items of the attached Standard Provisions and Reporting Requirements (Attachment C) and any amendments thereafter.
10. The Administrator shall require Users to comply with the Administrator's use area conditions. Use area requirements shall be consistent with Specification B.1.
11. If recycled water will be transported by truck for uses consistent with the Uniform Statewide Recycling Criteria such as dust control, the Administrator shall provide notification and control measures for Users consistent with the provisions of the approved Title 22 Engineering Report that addresses protection of public health.
12. A copy of the Water Recycling Use Permit must be provided to Users by the Administrator (electronic format is acceptable). The Users must have the documents available for inspection by State and Regional Water Board staff, State/County officials, and/or the Administrator.
13. The Administrator shall comply with the attached monitoring and reporting program including any amendments issued by the entity that issued the NOA (State or Regional Water Board). This monitoring program shall be consistent with any applicable Salt and Nutrient Management Plan for the basin/sub-basin.

The Administrator is responsible for collecting reports from Users. Where applicable, Users are responsible for submitting on-site observation reports and use data to the Administrator, who will compile and file an annual report with the entity that issued the NOA. The Administrator, at its discretion, may assume the User's responsibility for on-site observation reports and use data.

14. The Administrator and Users shall maintain in good working order and operate as efficiently as possible any facility or control system to achieve compliance with this General Order. The Administrator may use a third party agent to perform this task, however, the Administrator is solely responsible for compliance with conditions of this permit and the approved water recycling program.
15. The Administrator shall require that personnel receive training to assure proper operation of recycling facilities, worker protection, and compliance with this General Order. The Administrator shall require Recycled Water Supervisor(s) to be familiar with the Administrator permit conditions.
16. The Administrator shall assure that all above ground equipment, including pumps, piping, storage reservoir, and valves which may at any time contain recycled water are identified with appropriate notification as required by the Uniform Statewide Recycling Criteria and California Health and Safety Code section 116815. The Administrator may use a third party agent to perform this task, however, the Administrator is solely responsible for compliance with conditions of this permit and the approved water recycling program.

#### **D. GENERAL PROVISIONS**

1. The Administrator shall document compliance with all conditions of this General Order and requirements specified in the Uniform Statewide Recycling Criteria and California Code of Regulations title 17.
2. If directed by the State Water Board or a Regional Water Board pursuant to Water Code section 13267, an Administrator shall prepare and submit a Salt and Nutrient Management Plan, acceptable to the entity that issued such order, to ensure that the overall impact of permitted water recycling projects does not degrade groundwater resources in a manner inconsistent with Findings 27 through 32. Unless otherwise directed by the entity that issued such order, in lieu of developing an individual Salt and Nutrient Management Plan, the Administrator shall participate in a Regional Water Board's existing salt and nutrient management planning effort to meet the requirements of this provision.
3. State and/or Regional Water Board staff may conduct inspections/audits of water recycling projects. The Administrator and Users shall permit the State and/or Regional Water Board or its authorized representatives, in accordance with Water Code section 13267(c):

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- a. Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this General Order.
  - b. Access to and copy of, at reasonable times, any records that must be kept as a condition of this General Order.
  - c. Inspection, at reasonable times, of any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this General Order.
  - d. To sample or monitor, at reasonable times, for the purpose of assuring compliance with this General Order.
4. The State or Regional Water Board may terminate or modify an Administrator's coverage under this General Order for cause, including, but not limited to:
  - a. Violation of any term or condition contained in this General Order;
  - b. Obtaining this General Order by misrepresentation, or failure to disclose fully all relevant facts;
  - c. Endangerment to public health or environment that can only be mitigated to acceptable levels by General Order modification or termination.
  - d. An increase in recycle flows which causes a reduction of treated effluent flow from the wastewater treatment plant into a surface water body with beneficial uses dependent on flow without the approval of the Division of Water Rights.
5. The State or Regional Water Board, upon a finding of non-compliance with this General Order, may revoke an Administrator's authority to issue Water Recycling Use Permits.
6. The State Water Board will review this General Order periodically and may revise the requirements as deemed necessary.
7. Users shall comply with all requirements of other applicable WDRs or waivers of WDRs, including without limitation WDRs or waivers regulating agricultural discharges from irrigated lands.
8. The Administrators shall comply with the MRP issued with the NOA, as specified by the Regional Water Board's Executive Officer or State Water Board's Executive Director (or designee). A model MRP is provided as Attachment B. However, the State Water Board's Executive Director (or designee) may modify or replace the MRP when deemed necessary.

### CERTIFICATION

The undersigned, Clerk to the State Water Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on June 7, 2016.

AYE: Chair Felicia Marcus  
Vice Chair Frances Spivy-Weber  
Board Member Tam M. Doduc  
Board Member Steven Moore  
Board Member Dorene D'Adamo

NAY: None

ABSENT: None

ABSTAIN: None



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Jeanine Townsend  
Clerk to the Board

STATE WATER RESOURCES CONTROL BOARD  
ORDER WQ 2016-0068-DDW  
WATER RECLAMATION REQUIREMENTS  
FOR RECYCLED WATER USE

Attachments:

- A. Notice of Intent (NOI) - General Instructions
- B. Monitoring and Reporting Program
- C. Standard Provisions & Reporting Requirements
- D. Definition of Terms

ATTACHMENT A: NOTICE OF INTENT (NOI) – GENERAL INSTRUCTIONS  
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**WHO MAY APPLY**

This Order is intended to serve as a statewide General Order for use of recycled water. It may be used to (1) replace waste discharge requirements (WDRs) / water reclamation requirements (WRR) , or a conditional waiver of WDRs; (2) serve as an additional authorization for new uses of recycled water not previously permitted, issued to any of the following:

- a. Producers of recycled water. Producers may be publicly or privately owned. A Producer will typically produce recycled water that meets the requirements of the Uniform Statewide Recycling Criteria. A Producer may also act as an Administrator.
- b. Distributors of recycled water. In some cases, a Distributor may provide additional treatment (such as disinfection) to meet the Uniform Statewide Recycling Criteria for its intended use, and distribute it to Users. A Distributor is not required to take physical possession of the recycled water and may act simply as an Administrator.
- c. Users of recycled water: Users take physical possession of the recycled water from a Producer or Distributor for an approved beneficial recycled water use consistent with the Uniform Statewide Recycling Criteria. Users may use the recycled water under a Water Recycling Use Permit from an Administrator or act as an Administrator.
- d. A legal entity such as a joint powers agreement or equivalent contractual agreement between a Producer, Distributor, irrigation district, or other entity. Similar to a Distributor, a legal entity is not required to take physical possession of the recycled water and may act simply as an Administrator.

Applicants that have been previously issued an order authorizing water recycling may be able to submit an abbreviated information package. Such applicants should contact Regional Water Board and State Water Board staff to determine the application information needs.

Enrollees covered under Order WQ 2014-0090-DWQ who wish to continue coverage must acknowledge in writing their consent to coverage under this General Order. Enrollees who submit the required documentation will automatically be covered under this General Order. The State Water Board will provide existing enrollees with a form for this purpose. A new NOI is not required if the project has not materially changed.

Any applicant whose NOI is pending on the date this General Order is adopted must update its NOI to request coverage under this General Order. If the NOI is approved before the Effective Date, the applicant will be enrolled in Order WQ 2014-0090-DWQ



until the Effective Date and coverage under this General Order will commence on the Effective Date.

## **WHERE TO APPLY**

An applicant should submit an NOI to their applicable Regional Water Board and submit a Title 22 Engineering Report to the applicable State Water Board Division of Drinking Water Field Operations Branch office. The NOI cannot be considered complete until the responsible staff in the State Water Board provides a Title 22 Engineering Report approval letter. An Applicant proposing to administer a water recycling program that covers recycled water use areas within multiple Regional Water Board jurisdictions and is therefore seeking General Order coverage from multiple Regional Water Boards may submit an NOI to the State Water Board.

## **WHEN TO APPLY**

An applicant should normally file the NOI at least 90 days prior to the project start.

## **WHAT TO FILE**

The NOI shall include a water recycling program technical report containing the following information:

### **SECTION I - FACILITY/WASTE TREATMENT INFORMATION**

Description of existing and/or proposed treatment, storage, and transmission facilities for water recycling (much of this may be from current orders/reports, but should be updated if necessary). This shall include the type and level of wastewater treatment for water recycling applications, estimated seasonal flows of recycled water, and a summary of monitoring data that describes the chemical, physical, and disinfection characteristics of the recycled water. A copy of the approved Title 22 Engineering Report and the corresponding State Water Board approval letter, shall be included in the submittal.

### **SECTION II – RECYCLED WATER APPLICATION**

Describe how recycled water will be used. This should include the following information:

- a. Administrator owned/controlled uses
  1. An estimated amount of recycled water used at use area(s)

ATTACHMENT A: NOI GENERAL INSTRUCTIONS  
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FOR RECYCLED WATER USE

2. Relevant information regarding use type and use area (e.g. for agricultural irrigation use, provide information on irrigation type, acreage, and locations; for hydrostatic testing of utility pipelines, provide information on project locations, schedule/duration of testing, and type of utility pipeline; etc.).
  3. A proposed Implementation or Operations and Management plan (Plan). For uses with frequent or routine application (such as irrigation), the Plan shall specify agronomic rates and nutrient application for the use area(s) and a set of reasonably practicable measures to ensure compliance with this General Order. For uses with infrequent or non-routine applications, the Plan shall specify a list of practices to ensure compliance with this General Order. The Plan may include a water and nutrient budget for use area(s), site supervisor training, periodic inspections, or other appropriate measures. An Administrator may submit a nutrient management plan developed to comply with another Water Board order, such as waste discharge requirements or a waiver regulating discharges from irrigated lands, in lieu of an Implementation or Operations and Management Plan.
- b. Non-Administrator owned/controlled uses or contracted user applications (use areas that consist of small lots, e.g., residential/ industrial developments, roadway median irrigation, etc., may be aggregated to combine acreage for calculation purposes.)
1. List of Users receiving or proposing to receive recycled water (including a list of uses of recycled water for each User).
  2. An estimated amount of recycled water used at use area(s) of each User.
  3. A proposed Implementation or Operations and Management plan (Plan). For uses with frequent or routine application (such as irrigation), the Plan shall specify agronomic rates and nutrient application for the use area(s) and a set of reasonably practicable measures to ensure compliance with this General Order. For uses with infrequent or non-routine applications, the Plan shall specify a list of practices to ensure compliance with this General Order. The Plan may include a water and nutrient budget for use area(s), site supervisor training, periodic inspections, or other appropriate measures. This requirement does not apply to the extent Users are subject to WDRs or waivers of WDRs that require implementation of nutrient management plans.
  4. Descriptions/maps of use area(s).
  5. Method(s) of conveyance to Users.

### SECTION III - DESCRIPTION OF WATER RECYCLING PROGRAM

The Administrator's water recycling program should be fully described as follows:

- a. Description of the Administrator agency's authority, rules, and/or regulations
- b. Design and implementation of program
- c. Cross-connection testing responsibilities and procedures
- d. Monitoring and Reporting Program
- e. Use area inspection program
- f. Operations and Maintenance program
- g. Compliance program
- h. Employee and User Training
- i. Emergency procedures and notification

### SECTION IV - ADDITIONAL SITE SPECIFIC CONDITIONS

If existing orders have additional site specific conditions and/or restrictions not covered in the General Order, they shall be described here. If a CEQA document for the project was prepared, include a copy of the certified or adopted document(s).

### SECTION V - WATER RECYCLING PROGRAM ADMINISTRATION

Describe organization and responsibilities of pertinent personnel involved in the water recycling program. Provide the name(s), title(s) and phone number(s) of contact person(s) who are charged with operation/oversight of the water recycling program. Identify all agencies or entities involved in the production, distribution, and use of recycled water, and include a description of legal arrangements, such as, but not limited to, charters, agreements, or Memorandum of Understanding. Copies of such legal documents and organizational charts may be useful.

ATTACHMENT B: MONITORING AND REPORTING PROGRAM  
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FOR RECYCLED WATER USE

This monitoring and reporting program (MRP) describes requirements for monitoring a recycled water system. This MRP is issued pursuant to Water Code section 13267. The Administrator shall not implement any changes to this MRP unless and until a revised MRP is issued by the Regional Water Quality Control Board (Regional Water Board) Executive Officer.

The State Water Resources Control Board (State Water Board) and Regional Water Boards are transitioning to the paperless office system.

During the life of this General Order, the State Water Board or Regional Water Board may require the Administrator to electronically submit reports using the State Water Board's California Integrated Water Quality System (CIWQS) program or an alternative database. Electronic submittal procedures will be provided when directed to begin electronic submittals. Until directed to electronically submit reports, the Administrator shall submit hard copy reports.

In some regions, Administrators will be directed to submit reports (both technical and monitoring reports) to the State Water Board's GeoTracker database over the Internet in portable document format (pdf). In addition, analytical data shall be uploaded to the GeoTracker database under a site-specific global identification number. Information on the GeoTracker database is provided on the Internet at:

<[http://www.waterboards.ca.gov/ust/electronic\\_submittal/index.shtml](http://www.waterboards.ca.gov/ust/electronic_submittal/index.shtml)>

The Administrator has applied for and received coverage for the recycled water system that is subject to the notice of applicability (NOA) of Water Quality Order 2016-0068-DDW. The reports are necessary to ensure that the Administrator complies with the NOA and General Order. Pursuant to California Water Code section 13267, the Administrator shall implement this MRP and shall submit the monitoring reports described herein.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample shall be recorded on the sample chain of custody form. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished. If composite samples are collected, the basis for sampling (time or flow weighted) shall be approved by Regional Water Board staff.

ATTACHMENT B: MONITORING AND REPORTING PROGRAM  
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Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a California Environmental Laboratory Program (ELAP) certified laboratory or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced by the manufacturer or authorized representative at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

Monitoring requirements listed below may duplicate existing requirements under other orders including WDRs or waivers of WDRs that regulate agricultural discharges from irrigated lands. Duplication of sampling and monitoring activities are not required if the monitoring activity satisfies the requirements of this General Order. Collecting composite samples is acceptable in most cases. The facility may continue using existing sampling collection equipment that is consistent with the applicable facility order. However, due to short sample holding times, bacteriological samples collected to verify disinfection effectiveness must be grab samples. In addition to submitting the results under another order, the results shall be submitted in the reports required by this General Order.

All of the monitoring listed below may not be applicable to all recycled water projects. Consult the NOA or Regional Water Board staff to determine applicable requirements.

### RECYCLED WATER MONITORING

If recycled water is used for irrigation of landscape areas<sup>1</sup>, priority pollutant monitoring is required at the production facility. The frequency of monitoring corresponds to the flow rate of the recycled water use. Sampling shall be consistent with the following:

<u>Constituent</u>	<u>Treatment System Flow Rate</u>	<u>Sample Frequency</u>	<u>Reporting Frequency</u>
Priority Pollutants	< 1mgd	5 years	The next annual report.
	≥ 1mgd	Annually	Annually

mgd denotes million gallons per day.

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1 Landscape areas are defined as parks; greenbelts, playgrounds; school yards; athletic fields; golf courses; cemeteries; residential landscaping; common areas; commercial landscaping (except eating areas); industrial landscaping (except eating areas); freeway, highway, and street landscaping.

### DISINFECTION SYSTEM MONITORING

If disinfection is performed, samples shall be collected from downstream of the disinfection system and analyzed by an approved laboratory per Title 22, section 60321(a). Depending upon the level of disinfection and recycled water application to land, monitoring requirements vary. Disinfection monitoring shall be customized to the site-specific conditions from the following:

<u>Constituent/Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>	<u>Reporting Frequency</u>
Total Coliform Bacteria	MPN/100 mL <sup>(a)</sup>	Grab	TBD <sup>(b)</sup>	TBD <sup>(c)</sup>
Turbidity	NTU <sup>(a)</sup>	Grab/Meter	TBD <sup>(b)</sup>	TBD <sup>(c)</sup>

<sup>(a)</sup> MPN/100 mL denotes most probable number per 100 mL sample. NTU denotes nephelometric turbidity unit.

<sup>(b)</sup> TBD (to be determined) shall be specified in the NOA or as required by California Code of Regulations, title 22 section 60321.

<sup>(c)</sup> TBD (to be determined) shall be specified in the NOA or as required by CCR, title 22, section 60329(c).

### POND SYSTEM MONITORING

In some cases, recycled water storage ponds may be used to store recycled water when it is not needed. These monitoring requirements apply only to ponds permitted through this General Order. Ponds covered by an existing order shall continue to be monitored in accordance with that order. Pond(s) containing recycled water shall be monitored for the following:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u> <sup>(a)</sup>	<u>Reporting Frequency</u>
Freeboard	0.1 feet	Measurement	Quarterly	Annually
Odors	--	Observation	Quarterly	Annually
Berm condition	--	Observation	Quarterly	Annually

<sup>(a)</sup> Or less frequently if approved by the Regional Water Board Executive Officer

### USE AREA MONITORING

The Administrator shall monitor use areas(s) at a frequency appropriate to determine compliance with this General Order and the Administrator's recycled water use program requirements. An Administrator may assign monitoring responsibilities to a User as part of the Water Recycling Use Permit program; the Administrator retains responsibility to ensure the data is collected, as well as prepare and submit the annual report.

ATTACHMENT B: MONITORING AND REPORTING PROGRAM  
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The following shall be recorded for each user with additional reporting for use areas as appropriate. The frequency of use area inspections shall be based on the complexity and risk of each use area. Use areas may be aggregated to combine acreage for calculation or observation purposes. Use area monitoring shall include the following parameters:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sampling Frequency</u> <sup>(a)</sup>	<u>Reporting Frequency</u>
Recycled Water User	--	--	--	Annually
Recycled Water Flow	gpd <sup>(b)</sup>	Meter <sup>(c)</sup>	Monthly	Annually
Acreage Applied <sup>(d)</sup>	Acres	Calculated	--	Annually
Application Rate	inches/acre/year	Calculated	--	Annually
Soil Saturation/Ponding	--	Observation	Quarterly	Annually
Nuisance Odors/Vectors	--	Observation	Quarterly	Annually
Discharge Off-Site	--	Observation	Quarterly	Annually
Notification Signs <sup>(e)</sup>	--	Observation	Quarterly	Annually

<sup>(a)</sup> Or less frequently if approved by the Regional Water Board Executive Officer.

<sup>(b)</sup> gpd denotes gallons per day.

<sup>(c)</sup> Meter requires meter reading, a pump run time meter, or other approved method.

<sup>(d)</sup> Acreage applied denotes the acreage to which recycled water is applied.

<sup>(e)</sup> Notification signs shall be consistent with the requirements of California Code of Regulations, title 22, section 60310 (g).

## COOLING/INDUSTRIAL/OTHER USES OF RECYCLED WATER

If recycled water is used for industrial, commercial cooling, or air conditioning in which a mist is generated, the cooling system shall comply with California Code of Regulations, title 22, section 60306 (c).

## DUAL PLUMBED RECYCLED WATER SYSTEMS

If dual plumbed recycled water systems are proposed, consult with State Water Board for additional reporting, design, and operation requirements. The frequency of testing for cross connection and backflow prevention devices shall be as listed below or more frequently if specified by State Water Board.

<u>Requirement</u>	<u>Frequency</u>	<u>Reporting Frequency</u>
Cross Connection Testing	Four Years <sup>(a)</sup>	30 days/Annually <sup>(b)</sup>
Backflow Incident	--	24 hours from discovery
Backflow Prevention Device Testing and Maintenance	Annually <sup>(c)</sup>	Annually

ATTACHMENT B: MONITORING AND REPORTING PROGRAM  
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- <sup>(a)</sup> Testing shall be performed at least every four years, or more frequently at the discretion of the State Water Board Division of Drinking Water.
- <sup>(b)</sup> Cross connection testing shall be reported pursuant to California Code of Regulations, title 22, section 60314. The report shall be submitted to State Water Board within 30 days and included in the annual report to the Regional Water Board.
- <sup>(c)</sup> Backflow prevention device maintenance shall be tested by a qualified person as described in California Code of Regulations, title 17, section 7605.

## REPORTING

In reporting monitoring data, the Administrator shall arrange the data in tabular form so that the date, data type (e.g., flow rate, bacteriological, etc.), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to illustrate compliance with this General Order and NOA as applicable. The results of any monitoring done more frequently than required at the locations specified in the MRP shall be reported in the next regularly scheduled monitoring report and shall be included in calculations as appropriate.

During the life of this General Order, the State Water Board or Regional Water Board may require the Administrator to electronically submit reports using the State Water Board's California Integrated Water Quality System (CIWQS) program or an alternative database. Electronic submittal procedures will be provided when directed to begin electronic submittals. Until directed to electronically submit reports, the Administrator shall submit hard copy reports.

### A. Annual Report

Annual Reports shall be submitted to the Regional Water Board by **April 1<sup>st</sup> following the monitoring year**. The Annual Report shall include the following:

1. A summary table of all recycled water Users and use areas. Maps may be included to identify use areas. Newly permitted recycled water Users and use areas shall be identified. When applicable, supplement to the Title 22 Engineering Report and the State Water Board approval letter supporting those additions shall be included.
2. A summary table of all inspections and enforcement activities initiated by the Administrator. Include a discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the NOA and/or General Order. Copies of documentation of any enforcement actions taken by the Administrator shall be provided.
3. An evaluation of the performance of the recycled water treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year.



ATTACHMENT B: MONITORING AND REPORTING PROGRAM  
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4. Tabular and graphical summaries of all monitoring data collected during the year, including priority pollutant monitoring, if required.
5. The name and contact information for the recycled water operator responsible for operation, maintenance, and system monitoring.

A letter transmitting the annual report shall accompany each report. The letter shall summarize the numbers and severity of violations found during the reporting period, and actions taken or planned to correct the violations and prevent future violations. The transmittal letter shall contain the following penalty of perjury statement and shall be signed by the Administrator or the Administrator's authorized agent:

“I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of the those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.”

The Administrator shall implement the above monitoring program.

ATTACHMENT C: STANDARD PROVISIONS AND REPORTING REQUIREMENTS  
ORDER WQ 2016-0068-DDW  
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FOR RECYCLED WATER USE

A. GENERAL PROVISIONS

1. Duty to Comply

- a. An Administrator must comply with all of the conditions of this General Order and the MRP. Any General Order or MRP non-compliance constitutes a violation of the Water Code and/or Basin Plan and is subject to enforcement action.
- b. The filing of a request by the Administrator for a modification, revocation and reissuance, termination, a notification of planned changes, or anticipated non-compliance does not stay any General Order or MRP condition.

2. Duty to Mitigate

The Administrator shall take all reasonable steps to minimize or prevent any discharge in violation of this General Order which has a reasonable likelihood of adversely affecting public health or the environment, including such accelerated or additional monitoring as requested by the State or Regional Water Board to determine the nature and impact of the violation.

3. Property Rights

This General Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the discharger from liabilities under federal, state, or local laws.

4. Duty to Provide Information

The Administrator shall furnish, within a reasonable time, any information the Regional Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the General Order coverage. The Administrator shall also furnish to the Regional Water Board, upon request, copies of records required to be kept by its General Order.

5. Availability

A copy of this General Order, the NOA, and the MRP shall be maintained at the Administrator facilities and be available at all times to operating personnel.

B. GENERAL REPORTING REQUIREMENTS

1. Signatory Requirements

- a. All reports required by this General Order and other information requested by the Regional Water Board shall be signed by the Administrator principal owner or operator, or by a duly authorized representative of that person.

ATTACHMENT C: STANDARD PROVISIONS AND REPORTING REQUIREMENTS  
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Duly authorized representative is one whose:

- 1) Authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as general manager in a partnership, manager, operator, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position), and
- 2) Written authorization is submitted to the Regional Water Board. If an authorization becomes no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements above must be submitted to the Regional Water Board prior to or together with any reports, information, or applications to be signed by an authorized representative.

b. Certification

All reports signed by a duly authorized representative under Provision C.1 shall contain the following certification:

"I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

2. Should the responsible reporting party discover that it failed to submit any relevant facts or that it submitted incorrect information in any report, it shall promptly submit the missing or correct information. All violations of any requirements in this General Order, including Uniform Statewide Recycling Criteria requirements shall be submitted in the annual self-monitoring reports.

3. False Reporting

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this General Order, including monitoring reports or reports of compliance or non-compliance shall be subject to enforcement procedures as identified in Section C of these Provisions.

## C. ENFORCEMENT

1. The provision contained in this enforcement section shall not act as a limitation on the statutory or regulatory authority of the State and Regional Water Board.
2. Any violation of this General Order constitutes violation of the Water Code and regulations adopted thereunder, and are the basis for enforcement action, General Order termination, General Order revocation and reissuance, denial of an application for General Order reissuance, or a combination thereof.
3. The State and Regional Water Board may impose administrative civil liability, may refer a discharger to the State Attorney General to seek civil monetary penalties, may seek injunctive relief or take other appropriate enforcement action as provided in the Water Code for violation of this General Order.

ATTACHMENT D: DEFINITION OF TERMS  
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*Definitions noted with (\*) are from the Uniform Statewide Recycling Criteria. The definitions are provided in this Attachment for convenience and are subject to revisions should the codes are formally revised. Please refer to the formal published codes [Health & Safety Code or Title 22 of the California Code Regulations] to obtain the latest version.*

**Administrator:** An Administrator is an entity (Producer, Distributor, User, or legal entity) that submits an NOI and application fee to the Regional Water Board for coverage under this General Order. An Administrator may issue use permits for uses of recycled water consistent with the Uniform Statewide Recycling Criteria. An Administrator is responsible for coordinating, collecting data, and reporting the monitoring reports to the Regional Water Board.

**Agronomic Rates:** The rate of application of recycled water to plants necessary to satisfy the plants' evapotranspiration requirements, considering allowances for supplemental water (e.g., effective precipitation), irrigation distribution uniformity, and leaching requirement, thus minimizing the movement of nutrients below the plants' root zone.

**Coagulated Wastewater** \*: Oxidized wastewater in which colloidal and finely divided suspended matter have been destabilized and agglomerated upstream from a filter by the addition of suitable floc-forming chemicals.

**Conventional Treatment** \*: A treatment chain that utilizes a sedimentation unit process between the coagulation and filtration processes and produces an effluent that meets the definition for disinfected tertiary recycled water.

**Disinfected Secondary-23** \*: Recycled water that has been oxidized and disinfected so that the median concentration of total coliform bacteria in the disinfected effluent does not exceed a most probable number (MPN) of 23 per 100 milliliters using the bacteriological results of the last seven days for which analyses have been completed, and the number of coliform bacteria does not exceed an MPN of 240 per 100 milliliters in more than one sample in any 30 day period.

**Disinfected Secondary-2.2** \*: Recycled water that has been oxidized and disinfected so that the median concentration of total coliform bacteria in the disinfected effluent does not exceed a most probable number (MPN) of 2.2 per 100 milliliters utilizing the bacteriological results of the last seven days for which analyses have been completed, and the number of coliform organisms does not exceed an MPN of 23 per 100 milliliters in more than one sample in any 30 day period.

**Disinfected Tertiary Recycled Water** \*: A filtered and subsequently disinfected wastewater that meets the following criteria:

- (a) The filtered wastewater which has been disinfected by either:

- (1) A chlorine disinfection process following filtration that provides a contact time (CT, the product of total chlorine residual and modal contact time measured at the same point) value of not less than 450 milligram-minutes per liter at all times with a modal contact time of at least 90 minutes, based on peak dry weather design flow; or
  - (2) A disinfection process that, when combined with the filtration process, has been demonstrated to inactivate and/or remove 99.999 percent of the plaque forming units of F-specific bacteriophage MS2, or polio virus in the wastewater. A virus that is at least as resistant to disinfection as polio virus may be used for purposes of the demonstration.
- (b) The median concentration of total coliform bacteria measured in the disinfected effluent does not exceed an MPN of 2.2 per 100 milliliters utilizing the bacteriological results of the last seven days for which analyses have been completed and the number of total coliform bacteria does not exceed an MPN of 23 per 100 milliliters in more than one sample in any 30 day period. No sample shall exceed an MPN of 240 total coliform bacteria per 100 milliliters.

**Disinfected Wastewater** \*: Wastewater in which the pathogenic organisms have been reduced by chemical, physical or biological means. For the purposes of this General Order, disinfected wastewater is safe for use when applied consistent with the requirements of the Uniform Statewide Recycling Criteria.

**Distributor**: A private or public agency which receives recycled water from a Producer for the purpose of distribution to Users. In some cases, a distributor may provide additional treatment (such as disinfection) to meet the Uniform Statewide Recycling Criteria for its intended use, and distributes it to Users. A Distributor may not take physical possession of the recycled water and may act simply as an Administrator.

**Dual Plumbed System** \*: A system that utilizes separate piping systems for recycled water and potable water within a facility and where the recycled water is used for either of the following purposes:

- a) To serve plumbing outlets (excluding fire suppression systems) within a building or
- b) Outdoor landscape irrigation at individual residences.

**Filtered Wastewater** \*: An oxidized wastewater that meets the criteria in the subsection 1 or 2:

- (1) Has been coagulated and passed through natural undisturbed soils or a bed of filter media pursuant to the following:
  - a. At a rate that does not exceed 5 gallons per minute per square foot of surface area in mono, dual or mixed media gravity, upflow or pressure filtration systems, or does not exceed 2 gallons per minute per square foot of surface area in travelling automatic backwash filters; and

b. So that the turbidity of the filtered wastewater does not exceed any of the following:

- i. An average 2 NTU within a 24-hour period;
- ii. 5 NTU more than 5 percent of the time within a 24-hour period; and
- iii. 10 NTU at any time

(2) Has been passed through a microfiltration, ultrafiltration, nanofiltration, or reverse osmosis membrane so that the turbidity of the filtered wastewater does not exceed any of the following:

- a. 0.2 NTU more than 5 percent of the time within a 24-hour period; and
- b. 0.5 NTU at any time

**F-specific bacteriophage MS-2 \***: A strain of a specific type of virus that infects coliform bacteria that is traceable to the American Type Culture Collection (ATCC 15597B1) and is grown on lawns of E. Coli (ATCC 15597).

**Incidental Runoff**: Unintended small amounts (volume) of runoff from recycled water use areas, such as unintended, minimal over-spray from sprinklers that escapes the recycled water use area. Water leaving a recycled water use area is not considered incidental if it is part of the facility design, if it is due to excessive application, if it due to intentional overflow or application, or if it is due to negligence.

**Legal Entity**: A legal entity is an entity formed by a legal document (such as a joint powers agreement or equivalent contractual agreement) between a Producer, Distributor, irrigation district, or other entity. Similar to a Distributor, a legal entity may not take physical possession of the recycled water and may act simply as an Administrator.

**Modal Contact Time \***: The amount of time elapsed between the time that a tracer, such as salt or dye, is injected into the effluent at the entrance to a chamber and the time that the highest concentration of the tracer is observed in the effluent from the chamber.

**Nonrestricted Recreational Impoundment \***: An impoundment of recycled water, in which no limitations are imposed on body-contact water recreational activities.

**NTU (Nephelometric Turbidity Unit) \***: A measurement of turbidity as determined by the ratio of the intensity of light scattered by the sample to the intensity of incident light scattered by the sample to the intensity of incident light as measured by method 2130 B. in Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> ed.; Eaton, A.D., Clesceri, L.S., and Greenberg, A.E., Eds; American Public Health Association: Washington, DC, 1995; p.2-8.

**Oxidized Wastewater \***: Wastewater in which the organic matter has been stabilized, is nonputrescible, and contains dissolved oxygen.

**Recycled Water Producer**: Any entity that produces recycled water.

**Recycled Water:** Means water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur therefore considered a valuable resource. (Wat. Code, § 13050(n).) Coverage under these Water Reclamation Requirements for Recycled Water Use (General Order) is limited to treated municipal wastewater for non-potable uses.

**Recycled Water Supervisor:** A person designated, by the Administrator that acts as the coordinator between the supplier and User. The Recycled Water Supervisor shall have authority to ensure recycled water use complies with the General Order, NOA, and the Uniform Statewide Recycling Criteria.

**Regional Water Board:** All references to a Regional Water Board include the Executive Officer, who may act for the Regional Water Board in carrying out this General Order. See Water Code section 13223.

**Restricted access golf course \*:** A golf course where public access is controlled so that areas irrigated with recycled water cannot be used as if they were part of a park, playground, or school yard and where irrigation is conducted only in areas and during periods when the golf course is not being used by golfers.

**Restricted Recreational Impoundment \*:** An impoundment of recycled water in which recreation is limited to fishing, boating, and other non-body-contact water recreational activities.

**Spray Irrigation \*:** The application of recycled water to plants to maintain vegetation or support growth of vegetation by applying it from sprinklers.

**State Water Board:** All references to the State Water Board refer to divisions within the State Water Board whose roles in carrying out this General Order are as following:

- Division of Drinking Water reviews and approves (Title 22 Engineering Report and provide recommendations to the Regional Water Boards to address protection of public health. Division of Drinking Water is also processes any Notice of Intent submitted by a potential enrollee needing coverage from multiple Regional Water Boards.
- Division of Water Rights is responsible for approval of wastewater change petitions for water recycling projects that will decrease the amount of water in a stream or other waterway.

**Surface Irrigation:** Application of recycled water by means other than spraying such that contact between the edible portion of any food crop and recycled water is prevented (i.e., drip or flood irrigation).

**Title 22 Engineering Report :** Engineering report prepared to describe the manner by which a project or a water recycling program will comply with the Uniform Statewide Recycling Criteria.

**Undisinfected Secondary \*:** Means oxidized wastewater.



ATTACHMENT D: DEFINITION OF TERMS  
ORDER WQ 2016-0068-DDW  
WATER RECLAMATION REQUIREMENTS  
FOR RECYCLED WATER USE

**Use Area:** An area of recycled water use with defined boundaries. Agricultural use areas may contain one or more facilities (ditch, irrigated fields, pumping stations, etc.); use areas may also consist of an aggregate of small lots (e.g., residential/ industrial developments, roadway median irrigation, etc.).

**Use Area Supervisor:** A person designated, by the owner or manager of the property upon which recycled water will be applied, to discharge the responsibility of the owner or manager of the property for: (a) installation, operation and maintenance of a system that enables recycled water to be used; (b) for prevention of potential hazards; (c) implementing and complying with conditions of all Water Recycling Use Permits and associated documents; (d) coordination with the cross-connection control program of the supplier of drinking water and the local health/environmental health agency; (e) control of on-site piping to prevent any cross connections with potable water supplies; (f) routine inspection and maintenance of backflow prevention devices. (A Recycled Water Supervisor and Use Area Supervisor may be one in the same in some instances).

**User:** Users take physical possession of the recycled water from Producer and/or Distributor for an approved beneficial recycled water use consistent with the Uniform Statewide Recycling Criteria. Users may use the recycled water under either a Water Recycling Use Permit from an Administrator or act as an Administrator under this General Order.

**Water Recycling Use Permit:** A permit issued by the Administrator to the Recycled Water User, which is consistent with the requirements specified in this General Order.

## **Attachment 4**

Monitoring and Reporting Program for  
Region 2 Recycled Water Administrators  
Enrolled in Order WQ 2016-0068-DDW

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**CALIFORNIA REGIONAL WATER QUALITY CONTROL  
BOARD SAN FRANCISCO BAY REGION**

**MONITORING AND REPORTING PROGRAM for:**

**REGION 2 RECYCLED WATER ADMINISTRATORS ENROLLED IN  
WATER QUALITY ORDER 2016-0068-DDW  
GENERAL WATER RECLAMATION REQUIREMENTS  
FOR RECYCLED WATER USE**

**Effective Date**

**April 8, 2020**

---

**JIM McGRATH, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER**

1515 Clay St., Suite 1400, Oakland, CA 94612 | [www.waterboards.ca.gov/sanfranciscobay](http://www.waterboards.ca.gov/sanfranciscobay)

## **I. GENERAL**

### **A. MONITORING AND REPORTING PROGRAM PURPOSE AND BASIS**

This Monitoring and Reporting Program (MRP) describes requirements for monitoring a recycled water program. This MRP is issued by the Executive Officer of the San Francisco Bay Regional Water Quality Control Board (Regional Water Board) and supersedes the MRP found in Attachment B of the General Water Reclamation Requirements for Recycled Water Use Order WQ 2016-0068-DDW (State General Order).

This MRP is applicable to the Administrators listed in Attachment 1 of the Notice of Applicability (Region 2 Administrators) for enrollment under the State General Order. Each Region 2 Administrator has received coverage for their recycled water program under the State General Order. The monitoring reports are necessary to document the Region 2 Administrator's compliance with the Notice and the State General Order, and the burden imposed in their preparation bears a reasonable relationship to the need for the reports and the benefits to be obtained from them. More specifically, the monitoring data are needed to evaluate the performance of recycled water production, distribution, and use and to assure protection of public health and the environment. Inconsistently treated or misused recycled water could expose people to pathogens or other harmful constituents and could adversely affect beneficial uses. Pursuant to California Water Code (Water Code) section 13267, the Region 2 Administrator shall implement this MRP and submit the monitoring reports described herein.

The monitoring requirements and practices described in the MRP are, generally, *minimum* levels of monitoring. Additional monitoring, other than as specified here, may be necessary to assure proper performance of the recycled water treatment systems, such as in response to treatment changes or investigations of uncertainties. If the Region 2 Administrator monitors any pollutant at the locations designated herein more frequently than required by this MRP, using test procedures approved by the Code of Federal Regulations Title 40 (40 CFR), part 136, or as specified in this MRP, the results of such monitoring shall be included in the calculation and reporting of the data submitted in monitoring reports.

### **B. MONITORING AND REPORTING PROGRAM CHANGES**

1. The Executive Officer of the Regional Water Board may authorize changes to the monitoring and reporting practices specified in this MRP, in consideration of acceptable alternate means of monitoring, and the total inventory of monitoring data. Factors to be considered include: data quality, adequate characterization of the identified recycled water or wastewater system process, consistency of system performance, compliance with water reclamation requirements, and acceptable means for providing equivalent and adequate monitoring of the identified recycled water or wastewater system process.
2. Requests for changes to monitoring or reporting practices must be submitted to the Regional Water Board in writing, with a complete description of the proposed changes and alternate means of monitoring.

3. The Region 2 Administrator shall not implement changes to authorized monitoring and reporting practices until applicable changes are authorized in writing by the Executive Officer.

### **C. SAMPLING AND FIELD TEST INSTRUMENTS**

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The Region 2 Administrator shall also maintain a sample chain of custody form that records the name of the sampler, sample type (grab or composite), time, date, location, bottle type, and any preservative used for each sample, available to the Regional Water Board upon request. The chain of custody form must also contain all custody information including date, time, and to whom samples were relinquished.

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that they are used by a California Environmental Laboratory Program (ELAP) certified laboratory or:

1. The user is trained in proper use and maintenance of the instruments;
2. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
3. Instruments are serviced by the manufacturer or authorized representative at the recommended frequency; and
4. Field calibration reports are maintained and available for at least three years.

Monitoring requirements listed below may duplicate existing requirements under other orders including Waste Discharge Requirements (WDRs). Duplication of sampling and monitoring activities is not required if the monitoring activity satisfies the requirements of the MRP and the results are submitted in the annual report. Collecting composite samples is acceptable in most cases. However, due to short sample holding times, bacteriological samples collected to verify disinfection effectiveness must be grab samples. In addition to submitting the results under another order, the results shall be submitted in the reports required by the State General Order and this MRP.

All the monitoring listed below may not be applicable to all recycled water projects. Some monitoring requirements are dependent on the treatment system, treatment level, or use type. Implement monitoring requirements applicable to your recycled water program. Consult the Notice or Regional Water Board staff with any questions.

## **II. RECYCLED WATER MONITORING**

### **A. DISINFECTION SYSTEM MONITORING**

1. Samples shall be collected and analyzed by an approved laboratory per 22 CCR section 60321, which states that the samples shall be taken from the disinfected effluent for coliform sampling and following filtration for disinfected tertiary recycled water turbidity sampling.

2. The Region 2 Administrators listed in Notice Attachment 2 that use chlorine disinfection to treat to the disinfected tertiary level shall ensure that the chlorine disinfection system is operated to obtain a minimum CT value (product of total chlorine residual and modal contact time measured at the same point) of 450 milligram-minutes per liter at all times with a modal contact time of a least 90 minutes, based on peak dry weather design flow per 22 CCR section 60301.230. The daily minimum CT value shall be maintained on file and available to the Regional Water Board or Division of Drinking Water (DDW) upon request. If the CT value is below the daily minimum and the recycled water is distributed for use or to a use area, the event shall be reported to the Regional Water Board in accordance with section III.B. of this MRP. Table 1 lists the monitoring and reporting requirements for systems utilizing chlorine disinfection.
3. The Region 2 Administrators listed in Notice Attachment 2 that use ultraviolet (UV) disinfection to satisfy disinfection requirements per 22 CCR 60301.230(a)(2) shall ensure that the UV disinfection system is operated in accordance with the DDW conditions and approved UV Disinfection Operations and Maintenance Manual, DDW conditional approval letters, or equivalent DDW approval. Consult with DDW for additional reporting, design, and operation requirements for new UV disinfection systems or if the approved UV disinfection system is significantly changed. Table 1 lists the monitoring and reporting requirements for systems utilizing UV disinfection.
4. Continuous monitoring of the disinfected tertiary recycled water UV transmittance and dose shall be conducted to ensure compliance with the facility-specific operating conditions and 22 CCR requirements. The daily minimum UV transmittance and the daily minimum hourly average and daily average UV dose shall be monitored. The data shall be maintained on file and available to the Regional Water Board or DDW upon request. If the UV transmittance or the UV dose falls below the minimum operating conditions and the recycled water is distributed for use or to a use area, the event shall be reported to the Regional Water Board in accordance with section III.B. of this MRP.
5. Depending upon the level of treatment, disinfection method, and filtration type, total coliform bacteria and turbidity limitations vary. The reported total coliform and turbidity values shall be based on the Region 2 Administrator's site-specific recycled water quality. Table 1 lists the monitoring and reporting requirements for total coliform bacteria and turbidity.

**Table 1: Disinfection System Monitoring and Reporting Requirements**

Constituent / Parameter	Units <sup>(a)</sup>	Sample Type	Sample Frequency	Reporting Frequency	Reported Values
Chlorine CT	mg-min/L	Meter / Calculated	Continuous	Annually	<ul style="list-style-type: none"> <li>Report Exceedances of Title 22 CT Limits in Table 2<sup>(b)</sup></li> </ul>
UV Transmittance	%	Meter	Continuous	Annually	<ul style="list-style-type: none"> <li>Report Facility-specific Exceedances (refer to Notice Attachment 2)</li> </ul>
UV Dose	mJ/cm <sup>2</sup>	Meter / Calculated	Continuous	Annually	<ul style="list-style-type: none"> <li>Report Facility-specific Exceedances (refer to Notice Attachment 2)</li> </ul>
Total Coliform Bacteria	MPN / 100 mL	Grab	Daily	Annually	<ul style="list-style-type: none"> <li>Report Daily Result</li> <li>Report Exceedances of Title 22 Coliform Limits in Table 2<sup>(c)</sup></li> </ul>
Turbidity	NTU	Grab/ Meter	Continuous <sup>(d)</sup>	Annually	<ul style="list-style-type: none"> <li>Report Daily Average, 95<sup>th</sup> percentile, and Maximum</li> <li>Report Exceedances of Title 22 Turbidity Limits in Table 2<sup>(e)</sup></li> </ul>

<sup>(a)</sup> mg-min/L denotes milligram-minute per liter. mJ/cm<sup>2</sup> denotes millijoule per square centimeter. MPN/100 mL denotes most probable number per 100 milliliter sample. NTU denotes nephelometric turbidity unit.

<sup>(b)</sup> Recycled water chlorine CT requirements are for systems that use chlorine disinfection process to comply with 22 CCR 60301.230(a)(1).

<sup>(c)</sup> Recycled water total coliform limits are per 22 CCR sections 60301.220-230 and are stated in Notice section II.D.

<sup>(d)</sup> Should the continuous turbidity meter and recorder fail, grab sampling at a minimum frequency of 1.2-hours may be substituted for a period of up to 24 hours.

<sup>(e)</sup> Recycled water turbidity requirements are based on the filtration type per 22 CCR section 60301.320 and are stated in Notice section II.D.

**Table 2: Reporting Requirements for Disinfection System Exceedances**

Constituent / Parameter	Treatment Level	Report Exceedance Value
Chlorine CT	Disinfected tertiary – chlorine disinfection system	450 mg-min/L minimum at all times with a modal contact time of at least 90 minutes. Report if less.
UV Transmittance / UV Dose	Disinfected tertiary – UV disinfection system	Facility-specific operating conditions (refer to DDW letter or Notice Attachment 2)
Total Coliform Bacteria	Disinfected secondary-23	> 23 MPN / 100 mL median of the last 7 days for which analysis have been completed (rolling 7-day median) > 240 MPN / 100 mL 30-day maximum if more than 1 exceedance occurs during 30-day period. Can exceed maximum limit once.
	Disinfected secondary-2.2	> 2.2 MPN / 100 mL rolling 7-day median > 23 MPN / 100 mL 30-day maximum if more than 1 exceedance occurs during 30-day period. Can exceed maximum limit once.
	Disinfected tertiary	> 2.2 MPN / 100 mL rolling 7-day median > 23 MPN / 100 mL 30-day maximum if more than 1 exceedance occurs during 30-day period. Can exceed maximum limit once. > 240 MPN / 100 mL any time
Turbidity	Disinfected tertiary – Media filtration	> 2 NTU 24-hour average > 5 NTU more than 5% in 24 hours > 10 NTU any time maximum
	Disinfected tertiary – Membrane filtration	> 0.2 NTU more than 5% in 24 hours > 0.5 NTU any time maximum
	Disinfected tertiary – Not coagulated media filtration <sup>(a)</sup>	> 2 NTU any time (filter effluent) > 5 NTU for more than 15 minutes (influent) > 10 NTU any time (influent)

<sup>(a)</sup> Turbidity limits for are per 22 CCR sections 60304(a) and 60307(a). The facility must have the capability to automatically activate chemical addition or divert the wastewater should the filter influent turbidity exceed 5 NTU for more than 15 minutes.



## B. SALT AND NUTRIENT MONITORING FOR IRRIGATION USES (LAND APPLICATION USES)

1. Salt and nutrient management planning is included in the Recycled Water Policy to support the promotion of basin-wide management of salts and nutrients in groundwater. Per State General Order Provision D.2, in lieu of an Administrator developing an individual Salt and Nutrient Management Plan, the Administrator shall participate in a Regional Water Board's existing salt and nutrient management planning efforts. To support a salt and nutrient characterization of the recycled water distributed for land application or irrigation uses, representative monitoring of wet and dry season conditions shall be conducted over one year only. The sampling shall be conducted at the recycled water treatment facility prior to distribution and is not the responsibility of the user if the treatment facility is conducting the sampling and analysis.
2. The Region 2 Administrator shall monitor the recycled water at a location representative of the water quality used for irrigation uses (land application uses)<sup>1</sup> over one year only for the parameters listed in Table 3, below.

**Table 3: Salt and Nutrient Characterization for Land Application Uses**

Constituent / Parameter	Units	Sample Type	Sample Frequency	Reporting Frequency
Total Dissolved Solids	mg/L	Grab / 24-hour composite	Characterization Over One Year: 2 x / one year Wet & Dry Season <sup>(a)</sup> 3 grab samples or 1 24-hour composite per sampling event	Annual Report following characterization
Ammonia	mg/L	Grab / 24-hour composite		
Nitrate plus nitrite as nitrogen <sup>(b)</sup>	mg/L as N	Grab / 24-hour composite		
Total Inorganic Nitrogen	mg/L	Grab / Calculate		

<sup>(a)</sup> Total dissolved solids and the nitrogen forms shall be sampled two times per year for one year. One sampling event consisting of three grab sample sets (each set consisting of one grab sample for each constituent) over a 24-hour period, or one 24-hour flow-weighted composite sample for each constituent, shall be collected during the wet season (generally from October to April or as defined in the NPDES permit, if one is applicable). The second sampling event consisting of three grab sample sets or one 24-hour flow-weighted composite sample for each constituent, shall be conducted during the dry season (generally from May through September or as defined in the NPDES permit, if one is applicable). If grab samples are used, samples for each constituent shall be collected close in time (as practicable) for each of the three grab sample sets.

<sup>(b)</sup> Nitrate and nitrite can be analyzed separately or combined as nitrate-nitrite.

<sup>1</sup> Construction dust control, residential fill station, or publicly owned treatment works on-site use are exempt from these monitoring requirements.

3. If changes to the recycled water treatment system or influent water quality occur that result in a significant and continued change in the recycled water salinity or nutrient concentrations, an updated characterization shall be conducted and submitted to the Regional Water Board as a part of the Region 2 Administrator's annual report. An additional salinity and nutrient characterization may be required by the Regional Water Board's Executive Officer if deemed necessary.

### C. VOLUMETRIC REPORTING

1. The Region 2 Administrator shall monitor recycled water volumes and report annually to the State Water Board's online **GeoTracker database by April 30** of each calendar year in accordance with State Water Board Order No. WQ 2019-0037-EXEC (Notice Attachment 6). The data shall be submitted to the GeoTracker database under a site-specific global identification number assigned by the State Water Board.

The GeoTracker Electronic Submittal of Information (ESI) system is accessible online at: <https://geotracker.waterboards.ca.gov/esi/login.asp>

2. GeoTracker guidance documents are also accessible online at:
  - a. Help Guide for Volumetric Annual Report in GeoTracker:  
[https://www.waterboards.ca.gov/ust/electronic\\_submittal/docs/var\\_helpguide.pdf](https://www.waterboards.ca.gov/ust/electronic_submittal/docs/var_helpguide.pdf)
  - b. Electronic Submittal of Information Beginner's Guide for Responsible Parties:  
[https://www.waterboards.ca.gov/ust/electronic\\_submittal/docs/geotracker\\_esi\\_rp\\_beginners\\_guide\\_revisedoct2019.pdf](https://www.waterboards.ca.gov/ust/electronic_submittal/docs/geotracker_esi_rp_beginners_guide_revisedoct2019.pdf)
  - c. Frequently Asked Questions: Volumetric Annual Reporting of Wastewater and Recycled Water:  
[https://www.waterboards.ca.gov/water\\_issues/programs/water\\_recycling\\_policy/docs/2020/faq\\_volumetric\\_annual\\_reporting.pdf](https://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/docs/2020/faq_volumetric_annual_reporting.pdf)

### D. USE AREA MONITORING

The use areas(s) shall be monitored by the Region 2 Administrator or the recycled water user at a frequency appropriate to determine compliance with the State General Order and the Region 2 Administrator's recycled water use program requirements. An Administrator may assign monitoring responsibilities to a User as part of the Water Recycling Use Permit program. The Administrator retains responsibility to ensure the data are collected, as well as prepare and submit the annual report.

The following shall be recorded for each user with additional reporting for use areas as appropriate. The frequency of use area inspections shall be based on the complexity and risk of each use area. Use areas may be aggregated to combine acreage for calculation or observation purposes. Use area monitoring shall include the parameters listed in Table 4, below.

**Table 4: Use Area Monitoring and Reporting Requirements**

Parameter	Units	Sample Type	Sampling Frequency <sup>(a)</sup>	Reporting Frequency
Recycled Water User	--	--	--	Annually
Recycled Water Flow	gpd <sup>(b)</sup>	Meter <sup>(c)</sup>	Monthly	Annually
Acreage Applied <sup>(d)</sup>	Acres	Calculated	--	Annually
Application Rate	inches/acre/ year	Calculated	--	Annually
Soil Saturation/Ponding	--	Observation	Quarterly	Annually
Nuisance Odors/Vectors	--	Observation	Quarterly	Annually
Discharge Off-Site	--	Observation	Quarterly	Annually
Notification Signs <sup>(e)</sup>	--	Observation	Quarterly	Annually

<sup>(a)</sup> Or less frequently if approved by the Regional Water Board Executive Officer

<sup>(b)</sup> gpd denotes gallons per day.

<sup>(c)</sup> Meter denotes meter reading, a pump run time meter, or other approved method.

<sup>(d)</sup> Acreage applied denotes the acreage to which recycled water is applied.

<sup>(e)</sup> Notification signs shall be consistent with the requirements of 22 CCR section 60310(g).

## E. POND SYSTEM MONITORING

In some cases, ponds may be used to store recycled water. The monitoring requirements herein apply only to recycled water storage ponds originally permitted through the Regional General Order. Recycled water storage ponds covered by other existing orders, such as an NPDES permit or Waste Discharge Requirements, shall continue to be monitored in accordance with those orders. Recycled water storage ponds permitted through the State General Order that were covered under the Regional General Order shall be monitored for the parameters listed in Table 5, below.

**Table 5: Recycled Water Storage Pond Monitoring and Reporting Requirements**

Parameter	Units	Sample Type	Sample Frequency <sup>(a)</sup>	Reporting Frequency
Freeboard	0.1 feet	Measurement	Quarterly	Annually
Odors	--	Observation	Quarterly	Annually
Berm condition	--	Observation	Quarterly	Annually

<sup>(a)</sup> Or less frequently if approved by the Regional Water Board Executive Officer

## F. DUAL PLUMBED RECYCLED WATER SYSTEMS

If dual plumbed recycled water systems are proposed, consult with the State Water Board Division of Drinking Water for additional reporting, design, and operation requirements. The frequency of testing for cross connection and backflow prevention devices shall be as listed in Table 6, below, or more frequently if specified by the State Water Board Division of Drinking Water.

**Table 6: Dual Plumbed Recycled Water System Testing and Reporting Requirements**

Requirement	Frequency	Reporting Frequency
Cross Connection Testing	Four Years <sup>(a)</sup>	30 days/Annually <sup>(b)</sup>
Backflow Incident	--	24 hours from discovery
Backflow Prevention Device Testing and Maintenance	Annually <sup>(c)</sup>	Annually

<sup>(a)</sup> Testing shall be performed at least every four years, or more frequently at the discretion of the State Water Board Division of Drinking Water.

<sup>(b)</sup> Cross connection testing shall be reported pursuant to 22 CCR section 60314. The report shall be submitted to State Water Board within 30 days and included in the annual report to the Regional Water Board.

<sup>(c)</sup> Backflow prevention device maintenance shall be tested by a qualified person as described in 17 CCR section 7605.

### III. REPORTING

In reporting monitoring data, the Region 2 Administrator shall arrange the data in tabular form so that the date, data type (e.g., flow rate, bacteriological), and reported analytical or visual inspection results are readily discernible. The data shall be summarized to illustrate compliance with the State General Order and Notice as applicable.

The Region 2 Administrators are required to electronically submit the volumetric reporting data annually via the State Water Board's GeoTracker ESRI online database by **April 30**. For consistency, beginning with the 2020 annual report submitted in 2021, annual reports shall also be uploaded to GeoTracker ESI by April 30. Electronic submittal procedures and guidance will be provided. Currently, some Region 2 Administrators submit annual reports via the Regional Water Board's centralized email address: [WDR.Monitoring@waterboards.ca.gov](mailto:WDR.Monitoring@waterboards.ca.gov). Once the Region 2 Administrator has set-up an active GeoTracker account, submittal of electronic reports to the centralized email address can be discontinued.

#### A. ANNUAL REPORTS

Annual Reports shall be submitted to the Regional Water Board by **April 30 following the monitoring year**. The monitoring year runs from January 1 through December 31 of each year. The Annual Report shall include the following:

1. A letter transmitting the annual report shall accompany each report. The transmittal letter shall include the following:
  - a. Identification of:
    - i. The recycled water program by name and address;
    - ii. The monitoring period being reported;

- iii. The name and contact information for the recycled water operator responsible for operation, maintenance, and system monitoring; and
    - iv. The name and contact information for the person familiar with the report for follow up questions or discussions, if different than the recycled water operator.
  - b. Summary of violations of the State General Order, Notice, and this MRP.
  - c. The penalty of perjury statement found in Section IV.B.1.b, which shall be signed by the Region 2 Administrator or the Administrator's authorized agent:
2. Tabular summaries of all monitoring data collected during the year.
- a. Monitoring Results. Tabulations of the data from all required analyses, measurements, and observations specified in this MRP, including identification of:
    - i. Date of sampling or observation;
    - ii. Location of sampling or observation (sample station);
    - iii. Parameter of analysis; and
    - iv. The result of the analysis, measurement or observation.
  - b. Data Presentation. In reporting monitoring data, the data shall be arranged in tabular form so that the data are clearly discernible. The data shall be summarized in such a manner to illustrate whether the discharge is in compliance with the State General Order and Notice.
  - c. Reporting Results Below Detection Limits. For all analytical characterizations (laboratory tests) for which results are identified as below limits of detection of the test procedure, data reporting shall include the limit of detection.
  - d. Discussion of State General Order, Notice, and MRP violations. The following information shall be recorded and reported:
    - i. Date and time of occurrence;
    - ii. Location of occurrence;
    - iii. Description of the observed violation; and
    - iv. Corrective actions taken or planned to correct the violations and prevent future violations. If a report describing corrective actions and/or a time schedule for implementation of actions was previously submitted, reference to the report is satisfactory.
3. A summary table of all new recycled water users and use areas.
4. A summary table of all inspections and enforcement activities initiated by the Region 2 Administrator. Include a discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into compliance with the Notice and/or State General Order. Copies of documentation of any enforcement actions taken by the Region 2 Administrator shall be provided.

5. An evaluation of the performance of the recycled water treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year. Operating records of the recycled water treatment facility shall be maintained by the Region 2 Administrator for a minimum of three years and be available upon request. Operating records shall include:
  - a. Records of operational problems, plant and equipment breakdowns, diversions to emergency storage or disposal, and discharge of untreated or partially treated wastewater to a use area(s).
  - b. All corrective or preventive action taken.
  - c. Process or equipment failures triggering an alarm. Include the time and cause of failure and corrective action taken.

## **B. NOTIFICATION OF VIOLATIONS**

In the event that a violation of the conditions of the water reclamation requirements occurs, or in the event that the Region 2 Administrator has reason to believe that a violation may occur, due to: i) maintenance work, power failure, or breakdown of wastewater system equipment; ii) accidents caused by human error or negligence; or iii) other causes such as acts of nature; the Region 2 Administrator or Administrator's agent(s) shall notify the Regional Water Board office by telephone no later than 24 hours from the time the Region 2 Administrator or Administrator's agent has knowledge of the incident.

Written notification shall be submitted within 15 calendar days of the date of the incident, unless directed otherwise by Regional Water Board staff. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring. A copy of the written notification must be sent to Division of Drinking Water.

## **C. REGIONAL WATER BOARD CONTACT INFORMATION**

The Regional Water Board's office mailing address and email are as follows:

1. Mail: San Francisco Bay Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA 94612
2. Email: [WDR.Monitoring@waterboards.ca.gov](mailto:WDR.Monitoring@waterboards.ca.gov)  
Case Manager: [Melissa.Gunter@waterboards.ca.gov](mailto:Melissa.Gunter@waterboards.ca.gov)

## **IV. STANDARD PROVISIONS AND REPORTING REQUIREMENTS**

The following standard provisions and reporting requirements are also included in Attachment C of the State General Order.

### **A. GENERAL PROVISIONS**

1. Duty to Comply

- a. The Region 2 Administrator must comply with all the conditions of the State General Order and the MRP. Any State General Order or MRP non-compliance constitutes a violation of the Water Code and/or the Regional Water Board's Water Quality Control Plan (Basin Plan) and is subject to enforcement action.
- b. The filing of a request by the Region 2 Administrator for a modification, revocation and reissuance, termination, a notification of planned changes, or anticipated non-compliance does not stay any State General Order or MRP condition.

## 2. Duty to Mitigate

The Region 2 Administrator shall take all reasonable steps to minimize or prevent any discharge in violation of the State General Order which has a reasonable likelihood of adversely affecting public health or the environment, including such accelerated or additional monitoring as requested by the State or Regional Water Board to determine the nature and impact of the violation.

## 3. Property Rights

The State General Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the Region 2 Administrator from liabilities under federal, state, or local laws.

## 4. Duty to Provide Information

The Region 2 Administrator shall furnish, within a reasonable time, any information the Regional Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the State General Order coverage. The Region 2 Administrator shall also furnish to the Regional Water Board, upon request, copies of records required to be kept by its State General Order.

## 5. Availability

A copy of the State General Order, the Notice, and the MRP shall be maintained at the Region 2 Administrator's facility and be available at all times to operating personnel.

# **B. GENERAL REPORTING REQUIREMENTS**

## 1. Signatory Requirements

- a. All reports required by the State General Order or the MRP and other information requested by the Regional Water Board shall be signed by the Region 2 Administrator principal owner or operator, or by a duly authorized representative of that person. Duly authorized representative is one whose:
  - 1) Authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as general manager in a partnership, manager, operator,

superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position, and

- 2) Written authorization is submitted to the Regional Water Board. If an authorization becomes no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements above must be submitted to the Regional Water Board prior to or together with any reports, information, or applications to be signed by an authorized representative.

**b. Certification**

All reports signed by a duly authorized representative under Provision C.1 shall contain the following certification:

“I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

2. Should the responsible reporting party discover that it failed to submit any relevant facts or that it submitted incorrect information in any report, it shall promptly submit the missing or correct information. All violations of any requirements in the State General Order, including Uniform Statewide Recycling Criteria requirements, shall be submitted in the annual self-monitoring reports.
3. False Reporting

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under the State General Order, including monitoring reports or reports of compliance or non-compliance shall be subject to enforcement procedures as identified in Section C of these Provisions.

**C. ENFORCEMENT**

1. The provision contained in this enforcement section shall not act as a limitation on the statutory or regulatory authority of the State and Regional Water Boards.
2. Any violation of the State General Order constitutes violation of the Water Code and regulations adopted thereunder, and are the basis for enforcement action, State General Order termination, State General Order revocation and reissuance, denial of an application for State General Order reissuance, or a combination thereof.



3. The State and Regional Water Boards may impose administrative civil liability, may refer a Region 2 Administrator to the State Attorney General to seek civil monetary penalties, may seek injunctive relief or take other appropriate enforcement action as provided in the Water Code for violation of the State General Order.

## **V. MONITORING AND REPORTING PROGRAM CERTIFICATION**

The Region 2 Administrator shall implement this Monitoring and Reporting Program as of the effective date given below.

I, Michael Montgomery, Executive Officer, hereby certify that this Monitoring and Reporting Program:

1. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Region 2 Administrator, and revisions will be ordered by the Executive Officer.
2. Is effective on April 8, 2020.

Ordered by:



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for Michael Montgomery  
Executive Officer

## **Attachment 5**

San Francisco Bay Regional Water Quality Control Board  
Recycled Water Spill Notification Protocol

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## San Francisco Bay Regional Water Quality Control Board Recycled Water Spill Notification Protocol

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**A. For any spill or unauthorized release of more than 50,000 gallons of recycled water that discharges to land and overflows outside of the use area, the Site Supervisor or designated agency contact identified in the Recycled Water Program must take the following steps:**

1. As soon as emergency response measures are completed, but no later than **24 hours** after the discharge, notify the San Francisco Bay Regional Water Quality Control Board and the Division of Drinking Water via the email addresses listed below.
2. Notify the Regional Water Board Spill Line via telephone or email.
3. Provide written confirmation via email to the Regional Water Board and the Division of Drinking Water within **15 calendar days** from the date of notification that includes the information listed below.

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**B. For any spills or other releases greater than 1,000 gallons of recycled water that discharges to surface water or may reach surface water (e.g., drainage ditch, storm drain), the Site Supervisor or designated agency contact identified in the Recycled Water Program must take the following steps:**

1. As soon as emergency response measures are completed, but no later than **24 hours** after the discharge, notify the Regional Water Board via email and telephone.
2. Notify the Regional Water Board Spill Line via telephone or email. Staff may advise to contact the California Office of Emergency Services.
3. Provide written confirmation via email to the Regional Water Board within **15 calendar days** from the date of notification that includes the information listed below.
4. For spills or other unauthorized releases of chlorine disinfected recycled water greater than **50,000 gallons** that have **not been dechlorinated** and discharge to **surface water**, collect, at a minimum, a water quality sample of the recycled water and analyze for residual chlorine. If accessible and feasible, provide a sampling result taken at the point of discharge to the surface water.

**Provide the following information when you notify the agencies:**

- a. Date and time the spill began and ended
- b. Location of the spill
- c. If the spill entered a storm drain or surface water. Name of surface water if known
- d. Estimated volume of the spill or flow if the spill is ongoing
- e. Estimated time of repair
- f. Cause of the spill
- g. Agencies involved with the response actions
- h. Corrective actions taken or plans for corrective action
- i. Whether adverse impacts related to the spill were observed such as excessive sedimentation or a fish kill
- j. Photograph(s), coordinates, or a map of the spill location.<sup>1</sup>
- k. Recycled water chlorine residual value (if the spill volume is greater than 50,000 gallons to surface water. Refer to section B.4 above for applicable conditions).

A spill reporting form is attached that can be used as a template but is not required. Attach any other relevant information that is not addressed in the form.

**Spill Contact Information**

**San Francisco Bay Regional Water Quality Control Board**

Phone: (510) 622-2390

Contact: Melissa Gunter

Email: Melissa.Gunter@waterboards.ca.gov  
WDR.monitoring@waterboards.ca.gov

**San Francisco Bay Regional Water Quality Control Board Spill Line**

Phone: (510) 622-2369

Email: RB2spillreports@waterboards.ca.gov

**State Water Resources Control Board Division of Drinking Water**

The Division of Drinking Water contact is based on the county in which the spill occurred. Refer to the attached Division of Drinking Water district offices map for contact information. A current version is accessible online at [https://www.waterboards.ca.gov/drinking\\_water/programs/districts/](https://www.waterboards.ca.gov/drinking_water/programs/districts/).

**California Office of Emergency Services**

Phone: (916) 845-8911

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<sup>1</sup> If a map is prepared, the spill location can be hand drawn on the map.

**San Francisco Bay Regional Water Quality Control Board**  
**Recycled Water Spill Reporting Form**

Name:

Phone:

Agency:

Site Name:

Location:

Date:

Contact for Follow-up (Name/Phone):

**INFORMATION ON SPILL OR UNAUTHORIZED DISCHARGE**

Date/time spill or discharge began:

Date/time spill or discharge ended:

Location of spill or discharge:

Did the recycled water enter or will it enter storm drains or receiving waters (e.g., rivers, creeks, lakes, or ocean); if so identify.

Estimated volume of spill or discharge (gallons):

Estimated time of repair:

If still ongoing, estimate flow rate (gallons/minute):

Agencies/entities involved with repair and/or clean-up:

Cause of the spill or discharge:

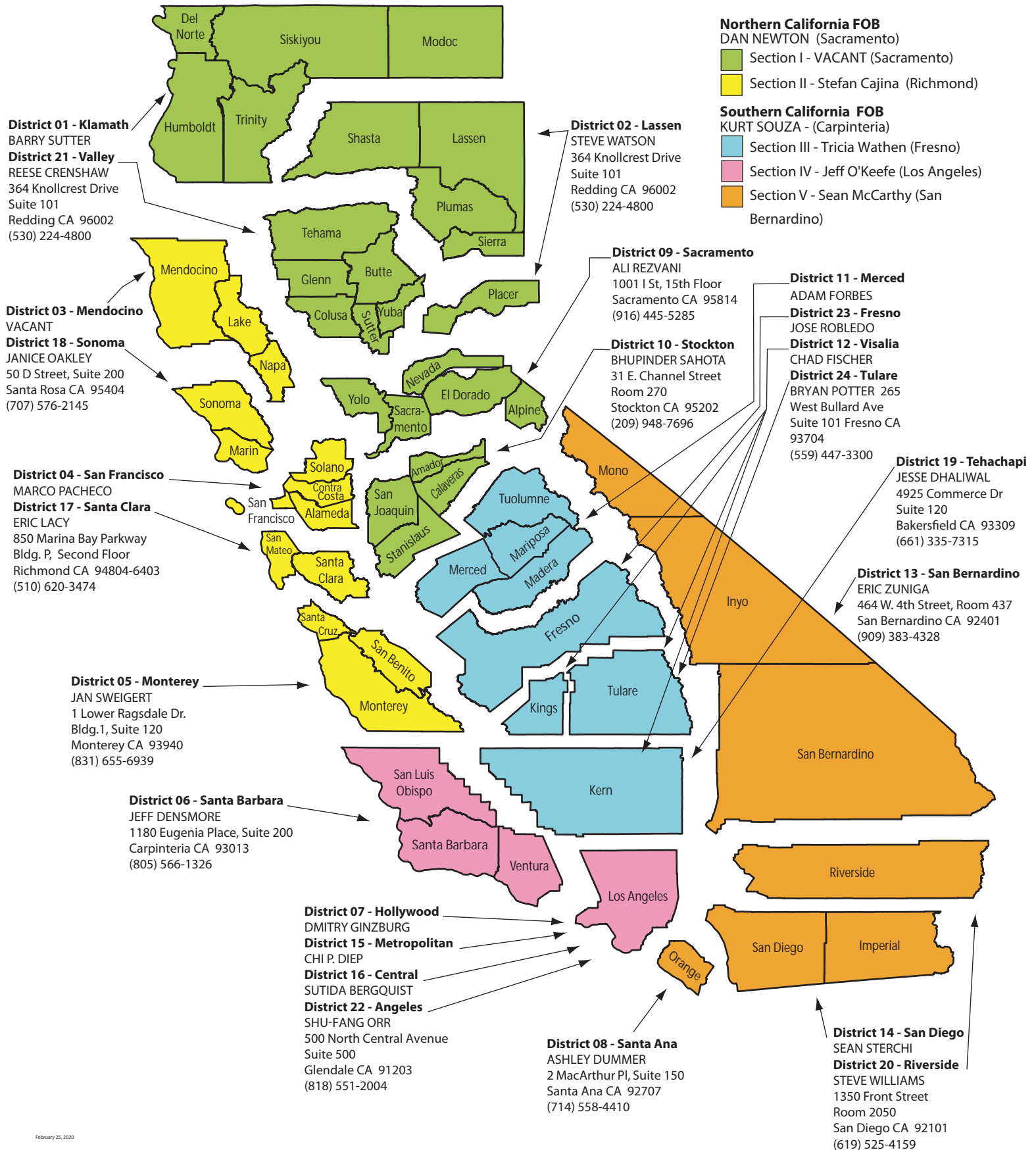
Corrective actions taken and when, or plan to correct spill/discharge:

STATE OF CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
**Division of Drinking Water - District Offices**

**Headquarters Office**  
(916) 449-5577  
1001 I St, 24th Floor  
Sacramento CA 95814



Gavin Newsom  
Governor



## **Attachment 6**

State Water Resources Control Board Order No. WQ 2019-0037-EXEC  
Amending Monitoring and Reporting Programs  
Includes Annual Volumetric Reporting Requirements

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**STATE WATER RESOURCES CONTROL BOARD  
ORDER NO. WQ 2019-0037-EXEC**

**AMENDING MONITORING AND REPORTING PROGRAMS  
FOR  
WASTE DISCHARGE REQUIREMENTS, NATIONAL POLLUTANT DISCHARGE  
ELIMINATION SYSTEM PERMITS, WATER RECLAMATION REQUIREMENTS,  
MASTER RECYCLING PERMITS, AND GENERAL WASTE DISCHARGE  
REQUIREMENTS**

The California State Water Resources Control Board (hereafter, State Water Board) finds:

1. The State Water Board and regional water quality control boards (hereafter, regional water board(s) and collectively, Water Boards) are authorized to prescribe waste discharge requirements (WDRs) pursuant to Water Code section 13263, general WDRs pursuant to Water Code section 13263(i), water reclamation requirements (WRRs) pursuant to Water Code section 13523, master recycling permits pursuant to Water Code section 13523.1, and National Pollutant Discharge Elimination System (NPDES) permits pursuant to Water Code section 13377. For the purposes of this Order, permittees under these permits are hereby referred to as Dischargers.
2. The Open and Transparent Water Data Act, AB 1755 of 2016 requires the State Water Board to improve access to water data by creating a statewide information system to integrate critical water data in a user friendly, publicly accessible website to simplify and expedite decision-making.
3. On March 7, 2017, the State Water Board adopted [Resolution No. 2017-0012](#), Comprehensive Response to Climate Change. Resolution No. 2017-0012 directs staff to coordinate with the regional water quality control boards to make annual reporting of recycled water data a requirement of waste discharge permits and water reclamation requirements, and to develop an online data entry system to track recycled water use.
4. On July 10, 2018, the State Water Board adopted [Resolution No. 2018-0032](#), adopting principles of open data as a core value and directing programs and activities to implement strategic actions to improve data accessibility and associated innovation. Resolution No. 2018-0032 directs staff to follow the core principles for open data including making all critical public data available in machine readable datasets and using data to make decisions in the best interest of the Water Boards mission.



5. On December 11, 2018, the State Water Board adopted [Resolution No. 2018-0057](#), amending the Water Quality Control Policy for Recycled Water (Recycled Water Policy). Resolution No. 2018-0057 directs the State Water Board Executive Director to issue orders pursuant to Water Code section 13267 and Water Code section 13383 to implement the monitoring requirements in the Recycled Water Policy.
6. The Recycled Water Policy contains goals to increase the use of recycled water from 714,000 acre-feet per year in 2015 to 1.5 million acre-feet per year by 2020 and to 2.5 million acre-feet per year by 2030.
7. Water Code section 13383(a) provides that “the state board or a regional board may establish monitoring, inspection, entry, reporting, and recordkeeping requirements, as authorized by Section 13160 , 13376 , or 13377 or by subdivisions (b) and (c) of this section, for any person who discharges, or proposes to discharge, to navigable waters . . .” Point source discharges to navigable waters are subject to NPDES permit requirements.
8. Water Code section 13267(b), provides that “a regional board may require any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region... or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of water within its region shall furnish, under penalty of perjury, technical or monitoring reports which the regional board requires... In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports.”
9. The recycled water tracking requirements in this Order may have associated costs for the Dischargers’ staff time required to compile and submit the required information. Monthly data collection is not expected to be burdensome since volumetric data may be calculated based on flow, a metric that facilities commonly use and monitor. The costs associated with the requirements in this Order are estimated to be solely associated with the Dischargers’ staff time required to compile the required information and submit it to the State Water Board. These costs are estimated to be reasonable based on the assumption that the requirements in this Order would require less than 50 hours annually.
10. Water Code section 13267(b) further specifies that the burden, including costs, of these reports must bear a reasonable relationship to the State Water Board’s need for the reports and the benefits to be obtained from the reports. The cost of the technical reports bears a reasonable relationship to the benefit to be gained because the reports will capture volumetric trends that will help the State Water Board identify potential opportunities for increased water recycling in California. The data submitted in the annual reports will be made publicly available to improve the effectiveness and efficiency of Water Boards programs and statewide water planning efforts, improve public trust, facilitate conversations with stakeholders, and encourage public participation.

11. Water Code section 13267(f) authorizes the State Water Board to carry out the authority granted to the regional board if it consults with the regional water quality control boards and determines that it will not duplicate the efforts of the regional water quality control boards. The State Water Board has consulted with the regional water quality control boards and made this determination.
12. In order to establish a realistic estimate of statewide recycled water use and potential for increased recycled water use statewide, the Recycled Water Policy requires Dischargers to report the volume of treated wastewater and recycled water. Section 3 of the Recycled Water Policy requires wastewater and recycled water Dischargers to annually report monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type. The Recycled Water Policy also requires Dischargers to annually report recycled water use by volume and category of reuse.
13. Annual reporting is necessary to evaluate progress towards the recycled water goals in the Recycled Water Policy and evaluate the need to update the recycled water goals in the future based on consistent statewide data. The annual report will meet implementation needs of the Recycled Water Policy and fulfill data gaps for additional statewide water planning efforts. The burden and cost of preparing the reports is reasonable and consistent with the interest of the state in maintaining water quality and developing alternative water supplies to increase water resiliency.
14. Technical and monitoring reports specified in this Order are required. Failing to furnish the reports by the due date or falsifying information in the reports are misdemeanors and may result in assessment of civil liabilities against the Discharger.
15. This Order does not preempt or supersede the authority of federal, state, or local governmental agencies to prohibit, restrict, or control discharges of waste subject to their jurisdiction.
16. This Order will be in effect for each Discharger until the applicable regional water quality control board reissues or otherwise amends the Discharger's monitoring and reporting program to incorporate the requirements of this Order, at which time this Order will no longer be applicable to that Discharger.

**IT IS HEREBY ORDERED THAT** pursuant to Water Code section 13383 for Dischargers subject to NPDES permits and Water Code section 13267 for Dischargers subject to WDRs, general WDRs, WRRs, and master recycling permits:

1. Monitoring and reporting programs are amended to include the reporting provisions in Attachment I for all Dischargers listed in Attachment II.
2. Dischargers shall continue to comply with all existing permit and monitoring and reporting program provisions, with the exception of provisions of this Order addressing reuse volume reporting, which shall supersede existing reuse volume reporting.
3. This Order will have no further force or effect after all of the applicable regional water quality control boards have reissued or otherwise amended all the monitoring and reporting programs for the Dischargers listed in Attachment II to incorporate the requirements of this Order and all provisions of Attachment I.

7/24/19  
Date

  
Eileen Sobeck  
Executive Director

## **ATTACHMENT I – MONITORING AND REPORTING PROGRAM**

### **1) ANNUAL REPORTING**

Dischargers shall submit an annual report to the State Water Board by April 30 of each calendar year furnished with the information detailed in section 2 of this monitoring and reporting program (MRP). For calendar year 2019, data shall be reported for the months January through December. The Discharger must submit this annual report containing monthly data in electronic format via the State Water Board's Internet GeoTracker system at <http://geotracker.waterboards.ca.gov/> as required by this MRP. Required data shall be submitted to the GeoTracker database under a site-specific global identification number. Any data will be made publicly accessible as machine readable datasets. Dischargers shall continue to comply with all existing permit and MRP provisions, with the exception of provisions of this MRP addressing volume/reuse volume reporting, which shall supersede existing volume/reuse volume reporting where provisions are duplicative.

### **2) VOLUMETRIC MONITORING**

Any Discharger subject to this MRP must report in accordance with each of the items in section 3 of the Recycled Water Policy as described below:

- a) *Influent.*  
Monthly volume of wastewater collected and treated by the wastewater treatment plant.
- b) *Production.*  
Monthly volume of wastewater treated, specifying level of treatment.
- c) *Discharge.*  
Monthly volume of treated wastewater discharged to each of the following, specifying level of treatment:
  - 1) Inland surface waters, specifying volume required to maintain minimum instream flow.
  - 2) Enclosed bays, estuaries and coastal lagoons, and ocean waters.
  - 3) Natural systems, such as wetlands, wildlife habitats, and duck clubs, where augmentation or restoration has occurred, and that are not part of a wastewater treatment plant or water recycling treatment plant.
  - 4) Underground injection wells, such as those classified by U.S. EPA's Underground Injection Control Program, excluding groundwater recharge via subsurface application intended to reduce seawater intrusion into a coastal aquifer with a seawater interface.

- 5) Land, where beneficial use is not taking place, including evaporation or percolation ponds, overland flow, or spray irrigation disposal, excluding pasture or fields with harvested crops.

d) *Reuse.*

Monthly volume of recycled water distributed.

e) *Reuse Categories.*

Annual volume of treated wastewater distributed for beneficial use in compliance with California Code of Regulations, title 22 in each of the use categories listed below:

- 1) Agricultural irrigation: pasture or crop irrigation.
- 2) Landscape irrigation: irrigation of parks, greenbelts, and playgrounds; school yards; athletic fields; cemeteries; residential landscaping, common areas; commercial landscaping; industrial landscaping; and freeway, highway, and street landscaping.
- 3) Golf course irrigation: irrigation of golf courses, including water used to maintain aesthetic impoundments within golf courses.
- 4) Commercial application: commercial facilities, business use (such as laundries and office buildings), car washes, retail nurseries, and appurtenant landscaping that is not separately metered.
- 5) Industrial application: manufacturing facilities, cooling towers, process water, and appurtenant landscaping that is not separately metered.
- 6) Geothermal energy production: augmentation of geothermal fields.
- 7) Other non-potable uses: including but not limited to dust control, flushing sewers, fire protection, fill stations, snow making, and recreational impoundments.
- 8) Groundwater recharge: the planned use of recycled water for replenishment of a groundwater basin or an aquifer that has been designated as a source of water supply for a public water system. Includes surface or subsurface application, except for seawater intrusion barrier use.
- 9) Seawater intrusion barrier: groundwater recharge via subsurface application intended to reduce seawater intrusion into a coastal aquifer with a seawater interface.

- 10) Reservoir water augmentation: the planned placement of recycled water into a raw surface water reservoir used as a source of domestic drinking water supply for a public water system, as defined in section 116275 of the Health and Safety Code, or into a constructed system conveying water to such a reservoir (Water Code § 13561).
- 11) Raw water augmentation: the planned placement of recycled water into a system of pipelines or aqueducts that deliver raw water to a drinking water treatment plant that provides water to a public water system as defined in section 116275 of the Health and Safety Code (Water Code § 13561).
- 12) Other potable uses: both indirect and direct potable reuse other than for groundwater recharge, seawater intrusion barrier, reservoir water augmentation, or raw water augmentation.

## ATTACHMENT II

### LIST OF DISCHARGERS

WATER CODE SECTION 13267 AND 13383 ORDER AMENDING MONITORING AND REPORTING PROGRAMS FOR WASTE DISCHARGE REQUIREMENTS, NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS, WATER RECLAMATION REQUIREMENTS, MASTER RECYCLING PERMITS, AND GENERAL WASTE DISCHARGE REQUIREMENTS

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
401754	4-S Ranch WRF	Olivenhain Municipal Water District	Encinitas
142909	AC/S Environmental Security, MCB Camp Pendleton	AC/S Environmental Security, MCB Camp Pendleton	Camp Pendleton
135709	Acton Rehabilitation Center	Los Angeles County Health Dept	Acton
392758	Adelanto WWTP	Adelanto Public Utility Authority	Adelanto
403980	Adin CSD	Adin CSD	Adin
146721	Airforce Research Lab STP	US Air Force Edwards Air Force Base	Edwards AFB
397427	Alamitos Barrier Recycled Water Project/Leo J. Vander Lans Water Treatment Fac.	Water Replenishment District of Southern California	Lakewood
629209	Alamitos Barrier Recycled Water Project/Leo J. Vander Lans Water Treatment Fac.	Alamitos Barrier Recycled Water Project/Leo J. Vander Lans Water Treatment Fac.	Long Beach
395089	Alan Horton WWTP	Mission Springs Water District	Desert Hot Springs
396049	Alturas Municipal WWTP	Alturas City	Alturas

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
131411	Amador City WW Export System	Amador City	Amador City
141187	Amador County Regional Outfall		Sutter Creek
349009, 412756	American Canyon Water Reclamation Facility (WRF)	American Canyon City PWD	American Canyon
407661	American Valley WWTP	American Valley CSD	Quincy
402136	Anacapa Foods LLC		Watsonville
382539	Anaheim Water Recycling Demonstration Project	Anaheim City	Anaheim
132468	Angel Island State Pk - WWTP	Ca Dept of Parks & Rec Marin District	Petaluma
146751	Angels City WWTP	Angels City	Angels Camp
148673	Arbuckle WWTP	Arbuckle PUD	Arbuckle
321411	Arcata City WWTF	Arcata City	Arcata
145426	Armona CSD WWTF	Armona CSD	Armona
404417	Arnold WWTP	Calaveras Cnty Water District	San Andreas
147823	Arvin WWTF	Arvin City	Arvin
142084	Atascadero State Hospital	Ca Dept of Mental Health	Atascadero
142083	Atascadero WWTP	Atascadero City	Atascadero
422026	Atwater Regional WWTF	Atwater City	Atwater
132086	Auburn LK Onsite WW Disp	Georgetown Divide PUD	Georgetown
407662	Auburn WWTP	Auburn City	Auburn
424707	Avalon WWTF	Avalon City	Avalon
142310	Avenal WWTF	Avenal City	Avenal



<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
418016	Avila WWTP	Avila Beach CSD	Avila Beach
410188	Bailey Creek WWTF	Walker Ranch CSD	Quincy
147595	Baker WTF	Baker CSD	Baker
332777	Bakersfield WWTP #2	Bakersfield City	Bakersfield
343591	Bakersfield WWTP #3	Bakersfield City	Bakersfield
407229	Banning STP-Non NPDES	Banning City	Banning
403462	Barstow WS	Golden State Water Company	Rancho Cordova
146486	Barstow WTF Mojave River Bed	Barstow City	Barstow
146725	Barstow/Daggett Airport WTF	San Bernardino Cnty Airports - Dagget	Victorville
407233	BB Reg WWA-Lucerne Vly	Big Bear Area Regional WW Agency	Big Bear City
368158	Beale AFB WWTP	US Air Force Beale Air Force Base CES/CEAN	Beale Afb
399826	Bear Valley CSD WWTP		Tehachapi
148640, 407542	Bear Valley WWTF	Bear Valley Water District (Bear Valley, CA)	Bear Valley
387658	Beaumont WWTP No. 1	Beaumont City	Beaumont
396744	Benicia WWTP	Benicia City	Benicia
402313	Bieber STP	Lassen Co Waterworks Dist #1	Bieber
297017	Big Bear WWRF	Big Bear Area Regional WW Agency	Big Bear City
400425	Big Creek Powerhouse No 1 WWTF	Southern California Edison-Rosemead	Rosemead
131472	Big Pine Indian RES WTF	Big Pine Indian Reservation	Big Pine
146263	Biola WWTF	Biola CSD	Biola

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
147527	Bishop Creek Camp Ground WTF	USDA Forest Service Inyo NF Bishop	Bishop
148110	Bishop Sewage Treatment Plant	Bishop City	Bishop
384238	Blue Lake City POTW	Blue Lake City	Blue Lake
407226	Blythe Regional WW Reclamation Facilities	Blythe City	Blythe
137723	Bodega Bay Wastewater Reclamation Facility	Bodega Bay PUD	Bodega Bay
327511	Bohemian Grove	Bohemian Club	Monte Rio
141573	Bolinas Community WWTP Pond System	Bolinas Community Public Utility District	Bolinas
132693	Bolinas CPUD Water Recycling Facility	Bolinas Community Public Utility District	Bolinas
389822	Bombay Beach STP	Coachella Valley WD	Coachella
403003	Boron Mine Facility	US Borax Inc	Boron
131473	Boron STP	Boron CSD	Boron
333712	Borrego Water District	BORREGO WATER DISTRICT	Borrego Springs
148200	Boulder Creek Golf & Cntry Club WWTP	Santa Cruz CSA 07	Santa Cruz
399799	Brawley City WWTP	Brawley City	Brawley
402914	Brentwood WWTP	Brentwood City	Brentwood
148146	Bridgeport PUD Treatment Plant	Bridgeport PUD	Bridgeport
172396	Buckhorn WTP		Pioneer

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
415903	Bucks Creek Sewer Facility	Bucks Creek Cabin Owners Association	Reno
147482	Buellton WWTP	Buellton City	Buellton
403428	Burbank WRP	Burbank City DPW	Burbank
422030	Burlingame WWTP	Burlingame City PWD	Burlingame
408490	Burney STP	Burney WD	Burney
422138	Butte CSA 21 Skansen Ponds and Rocky Bluffs	Butte CSA	Oroville
370698	Buttonwillow WWTF	Buttonwillow CWD	Buttonwillow
363736	Byron Sanitary District WWTF	Byron Sanitary District	Byron
146538	C.V. Kane Safety Roadside Rest	CA Dept of Transportation District 8 (San Bernardino-Riverside Office)	San Bernardino
423607	CA Department of Transportation	CA Department of Transportation	San Luis Obispo
350306	Ca Dept of Corrections & Rehabilitation	Ca Dept of Corrections & Rehabilitation	Sacramento
139795	CA Dept of Transportation District 3	CA Dept of Transportation District 3	Sacramento
147269	Cachuma SD WWTP	Santa Barbara Cnty Parks Dept	Santa Barbara
146697	Calaveras Co. Water Dist.	CALAVERAS CO. WATER DIST.	SAN ANDREAS
146355	Calaveras Timber Trails WWTF & Disposal Facility	Calaveras Timber Trails, Assoc	Avery
412822	Calera Creek Water Recycling Plant	City of Pacifica	Pacifica
396226	Calexico City WWTP	Calexico City	Calexico

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
147184	Calico Ghost Town REC Fac WTF	San Bernardino Cnty Regional Parks	San Bernardino
148046	California City WTF	California City	California City
388775	California Men's Colony WWTP	Ca Dept of Corrections San Luis Obispo	San Luis Obispo
399075	California Pines CSD	California Pines CSD	Alturas
321211	California Utilities Services	California Utilities Service	Salinas
402048	Calipatria City WWTP	Calipatria City	Calipatria
389598	Calipatria State Prison	Ca Dept of Corrections Imperial	Imperial
405697	Calistoga City Dunaweal WWTP	Calistoga City PWD	Calistoga
351859	Calistoga City Recycled Water Program	Calistoga City PWD	Calistoga
137121	Calpella CWD WWTP	Calpella CWD	Calpella
146476	Camanche North Shore WWTP	East Bay MUD	Oakland
131259	Camanche South Shore WWTP	East Bay MUD	Oakland
393691	Camarillo WRP	Camarillo Sanitary District	Camarillo
131132	Cambria Community Services District - WWTP	Cambria Community Services District	Cambria
398943	Cambria CSD - Emergency Water Supply Facility	Cambria Community Services District	Cambria
809684	Cambria Emergency Water Supply Facility	Cambria Emergency Water Supply Facility	Cambria

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
385731	Camino Heights WWTP	El Dorado Irrigation District	Placerville
140743	Camp Connell Maintenance Sta.	CA Dept of Transportation District 10 R5S	Stockton
379409	Camps Miller and Kilpatrick WWTP	Cnty of Los Angeles, Dept of Internal Services	Los Angeles
400018	Camrosa Water Reclamation Facility	Camrosa Water District	Camarillo
147030	Canada Woods Reclamation Facility	Canada Woods Reclamation Facility	Carmel
425154	Carlsbad WRF	Encina Wastewater Authority	Carlsbad
408361	Carlsbad WRF	Carlsbad MWD	Carlsbad
147963	Carmel Reclamation	Carmel Area Wastewater District	Carmel
141169	Carmel Valley Ranch WWTP (Producer)	California American Water Company Monterey	Pacific Grove
396646	Carmel WWTP	Carmel Area Wastewater District	Carmel
261386	Carneros Inn WWTP & Recycled Water	Carneros Partnership LLC	Napa
418040	Carpinteria SD WWTP	Carpinteria SD	Carpinteria
374121	Caruthers WWTF	Caruthers CSD	Caruthers
141242	Casa De Amigas MHP	Casa De Amigas MHP	Pleasanton
143779	Casa De Fruta	Casa De Fruta	Hollister
400787	Cascade Shores WWTP	Nevada CSD No 1	Penn Valley
371876	Cate School WWTP	Cate School Corporation	Carpinteria
145133	CDC CCWF & VSP WWTF	Ca Dept of Corrections Chowchilla	Chowchilla
138337	CDC Pelican Bay Prison WWTP	Ca Dept of Corrections & Rehabilitation	Sacramento

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
368766	CDCR - Mule Creek State Prison WWTP		Ione
146274	Cedar Grove WWTF	USDI National Park Service Sequoia & Kings Canyon	Three Rivers
368741	Central Contra Costa SD - WATER RECYCLING	Central Contra Costa Sanitary District	Martinez
412711	Central Contra Costa SD - WWTP	Central Contra Costa Sanitary District	Martinez
418731	Central Marin San. Agcy. WWTP	Central Marin Sanitation Agency	San Rafael
141185	Ceres WWTP	Ceres City	Ceres
392735	Chester STP	Chester PUD	Chester
412092	Chico Mobile Country Club WWTP	Bowling, Rick & Cathy	Danville
397469	Chico Water Pollution Control Plant	Chico City	Chico
405882	Children's Hospital WWTF	Children's Hospital Central California	Madera
251982	Chino Basin Recycled Water Groundwater Recharge Program	Chino Basin Recycled Water Groundwater Recharge Program	Rancho Cucamonga
144724	Chowchilla WWTF	Chowchilla City	Chowchilla
144281	Cielo Vista Estates	San Benito County Service Area 22	Hollister
146059	CIM WWTP	Ca Institution for Men Chino	Chino
141723	Circle Oaks WWTF	Circle Oaks Cnty Water Dist	Napa
387827	City of Biggs WWTP	Biggs City	Biggs

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421035	City of Colfax WWTP	Colfax City	Colfax
409145	City of Colusa WWTP	Colusa City	Colusa
399898	City of Corning WWTP	Corning City	Corning
428211	City of Davis WWTP	Davis City	Davis
422113	City of Jackson WWTP	Jackson City	Jackson
395597	City of Lathrop Consolidated Treatment Facility	Lathrop City	Lathrop
380601, 413161, 413164	City of Livermore Water Reclamation Plant	Livermore City	Livermore
368906	City of Loyalton and Grandi Ranch WWTF	Loyalton City	Loyalton
400860	City of Manteca WW Quality Control Facility		Manteca
413899	City of Modesto WQCF	Modesto City	Modesto
420963	City of Newman Wastewater Treatment Facility	Newman City	Newman
411940	City of Pacific Grove	City of Pacific Grove	Pacific Grove
425768	City of Patterson WQCF	Patterson City	Patterson
419500	City of PINOLE WWTP	Pinole City	Pinole
403796	City of Plymouth Waste Discharge Area	Plymouth City	Plymouth

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384618	City of San Clemente Segunda Deshecha Runoff Plant	SOCWA-San Juan Creek Ocean O/F	Dana Point
402929	City of San Clemente WRP	San Clemente City	San Clemente
373327	City of Santa Maria WWTP	City of Santa Maria	Santa Maria
147151	City of Stockton WW Reclamation	Jacques, Mario	Stockton
141085	City of Wheatland WWTP	Wheatland City	Wheatland
412195	Clear Creek WWTP	Redding City	Redding
147062	Clearlake Oaks Co WTR Dis WWTP	Clearlake Oaks Cnty Water Dist	Clearlake Oaks
145183	Clover Creek WWTF	USDI National Park Service Sequoia & Kings Canyon	Three Rivers
425653	Cloverdale City WWTP	Cloverdale City	Cloverdale
390415	Clovis WWTF	Clovis City	Clovis
393710, 400532	Coachella Sanitary Dist - WWTP	Coachella SD	Coachella
413411	Coachella Valley WD WWTP	Coachella Valley WD	Coachella
145228	Coalinga Avenue SRRA	CA Dept of Transportation District 6 Fresno	Fresno
153133	Coalinga State Hospital WWTF	Ca Dept of Mental Health	Sacramento
145874	Coalinga WWTF	Coalinga City	Coalinga
393296	Colonel Allensworth State Historic Park	Ca Dept of Parks & Rec Lebec	Lebec



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392658	Colton/San Bernardino STP, RIX	Colton/San Bernardino RTT&WRA	Colton
146807	Convict Lake Campground WTF	USDA Forest Service Inyo National Forest Mammoth Lakes	Mammoth Lakes
422099	Copper Cove WWRF	Calaveras Cnty Water District	San Andreas
405851	Corcoran State Prison WWTF	Ca Dept of Corrections Corcoran	Bakersfield
144786	Corcoran WWTF	Corcoran City	Corcoran
388613	Corona WWRF - No. 1	Corona City DWP	Corona
395382	Corona WWRF - No. 3	Corona City DWP	Corona
374041	Corona WWRF No. 2	Corona City DWP	Corona
394060	Costanoa Lodge and Camp	Reynolds Resorts - Costanoa, LLC	Pescadero
400033	Cottonwood WWTP	Shasta CSA #17	Redding
148058	Coulterville WWTF	Mariposa Cnty DPW	Mariposa
132350	Country Club Estates	San Luis Obispo CSA #18 San Luis Obispo Country Club	San Luis Obispo
403824	Covelo POTW	Covelo CSD	Covelo
404228	Crescent City WWTP	Crescent City	Crescent City
146499	Crestline SD Three WTF's	Crestline SD	Crestline
393543	Crockett CSD	CROCKETT CSD	Crockett
148826	CSA 3-Lake Camanche WWTP	Amador Water Agency	Sutter Creek
420796	Cutler-Orosi WWTF	Cutler-Orosi JT Powers WW Authority	Cutler
416410	Cuyama CSD WWTP	Cuyama Community Services District	Ew Cuyama
382776	CVWD Improv Dist #58	Coachella Valley WD	Coachella

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147257	Cypress Ridge Sewer Facility	Cypress Ridge Limited Partnership	Arroyo Grande
146985	Davenport WWTP	Davenport CSD	Davenport
148817	Davis Migrant Center WWTF		Woodland
146219	DDJC, Tracy - WWTP, Stormwater	US Dept of Defense, Defense Logistics Agency	Stockton
396979	Deer Creek WWTP	El Dorado Irrigation District	Placerville
146261	Del Rey WWTF	Del Rey CSD	Del Rey
375255	Delano WWTF	Delano City	Delano
400654	Delhi WWTF	Delhi CWD	Delhi
349731, 397694, 389437	Delta Diablo SD	Delta Diablo	Antioch
395086	Desert Crest WWTP	Mission Springs Water District	Desert Hot Springs
148480	Desert Lake CSD WTF	Desert Lake CSD	Boron
392490	Desert Water Agency Recycled Water Facility	Desert Water Agency	Palm Springs
394937	Deuel Vocational Institution	Ca Dept of Corrections & Rehabilitation	Sacramento
145349	Dinuba WWTF	Dinuba City	Dinuba
396976	Discovery Bay WWTP	Town of Discovery Bay CSD	Discovery Bay
148816	Dixon Migrant Center WWTF		Woodland
394601	Dixon WWTF	Dixon City PWD	Dixon
331539	Don Pedro Sewer Zone 1	Mariposa Cnty DPW	Mariposa

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321118, 323039	Donald C. Tillman WWRP	Los Angeles City Bureau of Sanitation	Los Angeles
401602	Donner Summit PUD WWTP	Donner Summit Public Utilities District	Soda Springs
139235	Dorris City STP	Dorris City	Dorris
194921	Dos Palos WWTF	Dos Palos City	Dos Palos
389066	Douglas Flat/Vallecito WWTP	Calaveras Cnty Water District	San Andreas
395737	Dry Creek WWTP	Roseville City	Roseville
316139	Dublin San Ramon SD Water Recycling	Dublin San Ramon Services District (Water Recycling Program)	Pleasanton
413162	Dublin San Ramon SD WWTP	Dublin San Ramon Services District (Water Recycling Program)	Pleasanton
368740	Dunnigan Wastewater Treatment Facility	California American Water Company Sacramento	Sacramento
427817	Dunsmuir WWTP	Dunsmuir City	Dunsmuir
146098	DVNM HDQ Furnace Creek WWTF	USDI National Park Service Death Valley	Death Valley
205765	DWA Operating Center 97-70018	Desert Water Agency	Palm Springs
144976	Eagle Lake Dist Office	USDA Forest Service Lassen National Forest, Eagle Lake District	Susanville
145515	Earlimart WWTF	Earlimart PUD	Earlimart
374448	East Bay MUD Water Recycling (E. Bayshore)	East Bay MUD Water Recycling (E. Bayshore)	Oakland
374449	East Bay MUD Water Recycling (RARE Water Project)	East Bay MUD Water Recycling (RARE Water Project)	Oakland

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396970	Easterly WWTP	Vacaville City DPW	Vacaville
354386	Eastern Municipal Water District	Eastern Municipal Water District	Perris
146485	Eastern Sierra CSD WWTF	Eastern Sierra CSD	Bishop
194744	Eastman Lake Admin Area	US Army Corps of Engineers Sacramento	Sacramento
142547	EBMUD Recycled Water- North Richmond Water Reclmntn Plant	East Bay MUD Water Recycling (North Richmond WRP)	Oakland
401017	EBMUD WPCP	East Bay MUD (WPCP)	Oakland
148034, 298259	Edward C. Little Water Recycling Plant	West Basin MWD	Carson
824178	Edward C. Little WRP- West Coast Basin Barrier Project - Expansion Phase III	Edward C. Little WRP- West Coast Basin Barrier Project - Expansion Phase III	El Segundo
148405	Edwards AFB WTF	US Air Force Edwards Air Force Base	Edwards Afb
148495	EID Master Reclamation Permit	El Dorado Irrigation District	Placerville
396224	El Centro City WWTP	EL CENTRO, CITY OF	El Centro
391637	El Centro-Stdbby Basin	EL CENTRO, CITY OF	El Centro
425238	El Dorado Hills WWTP	El Dorado Irrigation District	Placerville
147037	El Estero Reclamation Facility	Santa Barbara City PWD	Santa Barbara
374330	El Estero WWTP NPDES	Santa Barbara City PWD	Santa Barbara

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396396	El Portal WWTF	USDI National Park Service Yosemite National Park	El Portal
402417	El Toro Water Dist WWRF	El Toro Water District	Laguna Hills
145217	Elkhorn Correctional Facility WWTF	Fresno Cnty Gen Serv Dept	Fresno
376755	Encinal Canyon Water Recycling Plant on Tract 46277	BMIF/BSLF II Rancho Malibu Ltd.c/o Vintage Rancho Malibu, LLC	Newport Beach
140412	Escalon Treatment Plant	Escalon City	Escalon
148428	Esparto CSD WWTF	Esparto CSD	Esparto
401328	Etna STP	Etna City	Etna
405560	Eureka City Elk River WWTP	Eureka City	Eureka
140836	EVMWD Horsethief Canyon WWTP	Elsinore Valley Municipal Water Dist	Lake Elsinore
140802	EVMWD Railroad Canyon WWRF	Elsinore Valley Municipal Water Dist	Lake Elsinore
371955	EVMWD Regional WWRF	Elsinore Valley Municipal Water Dist	Lake Elsinore
131464	Exeter WWTF	Exeter City	Exeter
142437	Fairbanks Ranch WPCF	Fairbanks Ranch Community Services District	Encinitas
382017	Fairfield-Suisun Water Recycling	Fairfield Suisun Sewer District	Fairfield
399074	Fall River Mills STP	Fall River Mills CSD	Fall River Mills
401760	Fallbrook Water Reclamation Plant	Fallbrook Public Utility District	Fallbrook
144651	Farmersville WWTF	Farmersville City	Farmersville
388489	Ferndale City	Ferndale City	FERNDALE

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133139	Fiero Lane Water Company, Inc.	Fiero Lane Water Company Inc	San Luis Obispo
417130	Fillmore WWTP and Wastewater Recycling Plant	Fillmore City	Fillmore
145593	Firebaugh WWTF	Firebaugh City	Firebaugh
145858	Foothill Middle School WWTF	Sierra Unified School District	Tollhouse
425736	Forest Meadows WWRP	Calaveras Cnty Water District	San Andreas
147704	Forest Meadows WWT & RP	Calaveras Cnty Water District	San Andreas
379460	Forester & Meadows	Calaveras Cnty Water District	San Andreas
406960	Forestville Water District	Forestville Water District	Forestville
394063	Fort Bragg City WWTP	Fort Bragg City	Fort Bragg
132500	Fort Irwin WTF		Fort Irwin
395587	Fort Jones City WWTP	Fort Jones City	Fort Jones
401784	Fortuna City WWTP	Fortuna City	Fortuna
144097	Franklin WWTF	Franklin CWD	Merced
144719	Fresno Cnty #30-El Porvenir WWTF	Fresno County	Fresno
145626	Fresno Cnty #31B-Shaver Lake WWTF	Fresno County	Fresno
143808	Fresno Cnty #32-Cantua Creek WWTF	Fresno County	Fresno
351167	Fresno Cnty #34-Millerton New Town WWTF	Fresno County	Fresno
393461	Fresno Cnty #38-Sky Harbour WWTF	Fresno County	Fresno

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145627	Fresno Cnty #41-Shaver Lake WWTF	Fresno County	Fresno
144604	Fresno Cnty #44A-Millerton Lake MHV WWTF	Fresno County	Fresno
144852	Fresno Cnty #44-D Monte Verde Estates WWTF	Fresno County	Fresno
145688	Fresno Cnty #47-Quail Lake WWTF	Fresno County	Fresno
172683	Fresno Cnty Juvenile Justice WWTF	Fresno County	Fresno
390074	Fresno County Water Works District No. 17	Fresno County Water Works District No. 18	Fresno
412243	Fresno Recycled Water Application Area	Fresno City Department of Public Utilities	Fresno
412243	Fresno Recycled Water Application Area	Fresno City Department of Public Utilities	Fresno
400219	FSSD Subregional WWTP	Fairfield Suisun Sewer District	Fairfield
132715	Gafner Water Reclamation Facility	Leucadia Wastewater District	Carlsbad
404160	Galt WWTP & Reclamation Facility	Galt City	Galt
425655	Garberville POTW	Garberville Sanitary District	Garberville
146251	Glacier Point WWTF	USDI National Park Service Yosemite National Park	El Portal
140683	Glen Helen Amphitheater WWTP	Live Nation	San Bernardino

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417129	Gold Mountain WWTF	Gold Mountain CSD	Clio
143796	Golden Hills WWTF	Golden Hills Sanitation Co, Inc	Clovis
144669	Goleta SD Reclaimed Water Producer	Goleta SD	Goleta
418037	Goleta SD WWTP	Goleta SD	Goleta
302168	Gonzales WWTP	Gonzales City	Gonzales
135439	Gorman WWTP	Golden Valley MWD	Gorman
404818	Graeagle Meadows Townhomes	Graeagle Meadows HA	Graeagle
144637	Grant Grove WWTF	USDI National Park Service Sequoia & Kings Canyon	Three Rivers
405024	Grass Valley City WWTP	Grass Valley City	Grass Valley
408066	Graton CSD	Graton CSD	Graton
140872	Grayson Comm Serv Dist WTF	Grayson CSD	Westley
131446	Greenfield WWTP, City of	Greenfield City	Greenfield
146747	Greenhorn Creek Resort		Angels Camp
146901	Greenstone Estates MHP - WWTF	Greenstone Estates MHP	Sacramento
134091	Greenville WW Ponds	Indian Valley CSD	Greenville
137596	Grenada Sanitary District STP	Grenada Sanitary District	Grenada
418402	Grizzly Creek Ranch WWTF	Sierra Health Foundation	Sacramento
375936	Grizzly Ranch WW Recycling Facility	Grizzly Ranch CSD	Los Angeles



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132535	Groundwater Replenishment System - Advanced WTF	Orange County Water District	Fountain Valley
228046	Groundwater Replenishment System - Advanced WTF	Groundwater Replenishment System - Advanced WTF	Fountain Valley
139891	Groveland WWTF	Groveland CSD	Groveland
296594	Guadalupe WWTP	Guadalupe City	Guadalupe
137948	Gualala WWTF	Gualala CSD	Gualala
145495	Gustine WWTF	Gustine City	Gustine
374060	Hale Avenue Resource Recovery Facility (HARRF) Recycled Water	Escondido City	Escondido
136880	Hallelujah Prayer Center USA	Hallelujah Prayer Center USA, Inc.	Sylmar
146737	Hamilton City CSD WWTP	Hamilton City CSD	Hamilton City
412827	Hammonton Gold Village WWTP	River Highlands CSD	Marysville
141559	Hanford Master Reclamation Project	Hanford City	Hanford
148388	Hanford WWTF	Hanford City	Hanford
395004	Hangtown Creek WRF	Placerville City	Placerville
139233	Happy Camp WWTP	Happy Camp Sanitation District	Happy Camp
131642	Harbor Water Recycling Project - Nonpotable Reuse Project	Los Angeles City DWP	Los Angeles

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408354	Harbor Water Recycling Project-Dominguez Gap Barrier Project	Los Angeles City DWP	Los Angeles
230957	Harbor Water Recycling Project-Dominguez Gap Barrier Project	Harbor Water Recycling Project-Dominguez Gap Barrier Project	San Pedro
386848	Harmony Grove Water Reclamation Plant	San Diego County Dept of Public Works	San Diego
147147	Harney Lane Migrant Center		Stockton
402112	Healdsburg City Recycled Water Program	Healdsburg City	Healdsburg
399916	Healdsburg City WWTP	Healdsburg City	Healdsburg
389038	Heber PUD-Standby Bsn	Heber PUD	Heber
403017	Helendale Silverlakes STP	Helendale CSD	Helendale
380760	Henry N. Wochholz WWRF	Yucaipa Valley Water District	Yucaipa
418018	Heritage Ranch WWTP	Heritage Ranch CSD	Paso Robles
147692	Hidden Valley Lake WRF	Hidden Valley Lake CSD	Middletown
396169	Hi-Desert WD Reclamation Facility	Hi Desert Water Dist	Yucca Valley
145993	Hilmar CWD WWTF	Hilmar CWD	Hilmar
133595	Hilton Creek CSD Package STP	Hilton Creek CSD	Crowley Lake
382730	Hollandia Produce, LLC	Advanced Sustain Ability, LLC	Carpinteria

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359247	Hollister Domestic WWTP	Hollister City	Hollister
404868	Holtville City WWTP	Holtville City	Holtville
135810	Hope Gardens Family Center	Union Rescue Mission	Los Angeles
347603	Hopland Public Utilities District	Hopland Public Utility District	Ukiah
144930	Housing Authority Cnty of Merced	Housing Authority Cnty of Merced	Merced
136424	HRL Labs, LLC - Malibu Facility	HRL Laboratories LLC	Malibu
383599	Hughson WWTF	Hughson City	Hughson
374230	Hume Lake WWTF	Hume Lake Christian Camps	Hume
328068	Huron WWTF	Huron City	Huron
384601	Hyperion WWTP	Los Angeles City Bureau of Sanitation	Los Angeles
144814, 145332	I-5 & Panoche Road WWTF	I-5 Property Services Inc	Avenal
402423	Idyllwild WD WWTP	Idyllwild Water District	Idyllwild
387267	Imperial CCD WWTP	Imperial CCD	Imperial
402991	Imperial City WWTP	Imperial City	Imperial
348252	Imperial Dam Housing	Imperial ID	Imperial
396297	Imperial Standby Basin	Imperial City	Imperial
146811	Independence WWTF	Los Angeles City DWP	Los Angeles
143182	Indian Springs STP	California American Water Company Monterey	Pacific Grove
394393	Inland Empire Utilities Agency	Inland Empire Utilities Agency	Chino Hills

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146191	Inyokern CSD WTF	Inyokern CSD	Inyokern
368758	Ione WWTF		Ione
400987	Ironhouse Land Application Area	Ironhouse Sanitary District	Oakley
416477	Island Park Recreation Area - Pine Flat Lake	US Army Corps of Engineers - Pine Flat Lake	Piedra
140685	Isleton WWTP	Isleton City	Isleton
145507	Ivanhoe WWTF	Ivanhoe PUD	Ivanhoe
142343	Jamestown Sanitary District WWTF	Jamestown SD	Jamestown
142012	Jenny Lind Elementary School	Calaveras Unified SD	San Andreas
395792	JH Ranch	JH Ranch	Etna
147061	Johns Manville Willows Facility	Johns Manville Corp	Willows
389785	Jose Flores WWTP	Ventura Regional Sanitation District	Ventura
141929	Julian Water Pollution Facility	San Diego County Dept of Public Works	San Diego
146152	June Lake PUD STP	June Lake PUD	June Lake
331380	Kerman WWTF	Kerman City	Kerman
144015	Kern Cnty CSA 39.8-Reeder Tract	Kern County Public Works Department	Bakersfield
408399	Kern Cnty Sheriff's Lerdo WWTF	Kern County Public Works Department	Bakersfield
144791	Kern Sanitation Authority WWTF	Kern Sanitation Authority	Bakersfield
328915	Kern Valley State Prison WWTF	Ca Dept of Corrections & Rehabilitation	Sacramento
144931	Kettleman City WWTF	Kettleman City CSD	Kettleman City

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144671	King City Domestic WWTF	King City	King City
137522	Klamath CSD STP (Del Norte Community Development)	Klamath CSD Del Norte Community Development	Klamath
340006	Knights Landing CSD WWTP	Knights Landing Service Dist	Knights Landing
364419	Konocti Harbor Resort and Spa	Trustees of U.A. Local 38 Convalescent Trust Fund	Kelseyville
148251	La Canada WWRP	Los Angeles County Sanitation Districts	Whittier
382755	LA City, Bureau of Sanitation, Water Reclamation Div	LA City, Bureau of Sanitation, Water Reclamation Div	Van Nuys
397222	La Contenta WWT & RF	Calaveras Cnty Water District	San Andreas
377272	La Salina WWTP	Oceanside City	Oceanside
383007	Laguna County Sanitation District WWTP (N. SBarb County)	Laguna Sanitation	Santa Maria
367835	Lake Arrowhead CSD WTFS	Lake Arrowhead Community Service	Lake Arrowhead
397559	Lake California WWTP	Rio Alto WD	Cottonwood
363816	Lake Cnty SD Kelseyville WWD No. 3 Kelseyville WWTF	Kelseyville Cnty Waterworks, District 3	Lakeport
144348	Lake Hemet WD WWTP	Lake Hemet Municipal Water District	Hemet
136251	Lake Hughes Community WWTP	Los Angeles Cnty DPW	Alhambra
144117	Lake Isabella WWTF	LIWW, LLC	Los Angeles

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400796	Lake of the Pines WWTP	Nevada CSD No 1	Penn Valley
131135	Lake San Antonio Rec Area (S)	Monterey Cnty Parks Dept	Salinas
371554	Lake Shastina CSD STP	Lake Shastina CSD	Weed
389003	Lake Tamarisk WTP	Riverside Cnty Service Area #51	Desert Center
400917	Lake Wildwood WWTP	Nevada CSD No 1	Penn Valley
368729	Lakeport City WWTP	Lakeport City Municipal Sewer District	Lakeport
141557	Lakeside WD Reclamation Project	Lakeside Irrigation Water District	Hanford
385516	Lamont WWTF	Lamont PUD	Lamont
372713	Lancaster Disinfected Tertiary Recycled Water	Los Angeles County Sanitation Districts	Whittier
400127	Lancaster Water Reclamation Plant	Los Angeles County Sanitation District 14	Whittier
142325	Las Gallinas Recycled Water - Pasture Irrigation	Las Gallinas Valley Sanitary District	San Rafael
384183	Las Gallinas Recycled Water - Tertiary RWF	Las Gallinas Valley Sanitary District	San Rafael
402221	Las Gallinas WWTP	Las Gallinas Valley Sanitary District	San Rafael
317955	Las Palmas Ranch WWTP	California American Water Company Monterey	Pacific Grove
409899	Laton WWTF	Laton CSD	Laton
146277	Le Grand WWTF	Le Grand CSD	Le Grand
133818	Leachate Treatment Plant	BKK Corporation	West Covina

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144869	Lebec SRRA (Tejon Pass)	CA Dept of Transportation District 6 Sacramento R5F	Los Angeles
145756	Lee Vining WTF	Lee Vining PUD	Lee Vining
145015	Lemon Cove WWTF	Lemon Cove Sanitary District	Lemon Cove
131463	Lemoore NAS WWTF	US Navy Naval Air Station Lemoore	Lemoore
145642	Lemoore WWTF	Lemoore City	Lemoore
134244	Leonhardt Ranch Reclamation	Quincy Community Services District	Quincy
148508	Liberty High School WWTF	Golden Valley USD	Madera
147601	Lift Station Equalization Pond	El Dorado Irrigation District	Placerville
395742	Limoneira WWTP	Limoneira Co	Santa Paula
133359	Lincoln City Reclamation	Lincoln City	Lincoln
428207	Lincoln City WWTF	Lincoln City	Lincoln
415997	Linda Cnty Water District WWTP	Linda Cnty Water District	Marysville
141384	Linden Co Water Dist WWTF	Linden Cnty Water District	Linden
145554	Lindsay WWTF	Lindsay City	Lindsay
143799	Linnell Farm Labor Center	Tulare Cnty Housing Authority	Visalia
376175	Lion's Gate Reserve	Lion's Gate CSD	San Martin
407656	Live Oak City WWTP	Live Oak City	Live Oak
331392	Livingston Domestic WWTF	Livingston City	Livingston
340054	Lockeford CSD WWTP	Lockeford CSD	Lockeford
388671	Loleta WWTF	Loleta CSD	Loleta

<b>California Integrated Water Quality System Regulatory Measure ID</b>	<b>Facility Name</b>	<b>Organization</b>	<b>City</b>
147268	Lompoc Correctional Facility WWTP	US Penitentiary	Lompoc
383021	Lompoc Regional WRP	Lompoc City	Lompoc
330555	London WWTF	London CSD	Dinuba
146806	Lone Pine WWTF	Lone Pine CSD	Lone Pine
133825	Long Beach WRP	Joint Outfall System	Whittier
296613	Los Alamos WWTP	Los Alamos CSD	Los Alamos
402182	Los Alisos WD WWTP / Michelson WWRF	Irvine Ranch Water District	Irvine
135000	Los Angeles County Health Dept	Los Angeles County Health Dept	Acton
381433	Los Angeles County Sanitation District	Los Angeles County Sanitation District	Whittier
323041	Los Angeles-Glendale WWRP	Los Angeles City Bureau of Sanitation	Los Angeles
145424	Los Banos WWTF	Los Banos City	Los Banos
133829	Los Coyotes WRP	Joint Outfall System	Whittier
379559	Los Osos Water Recycling Facility	San Luis Obispo CSA #9 Los Osos WTP	San Luis Obispo
145807	Los Ranchos MHP	MHC Los Ranchos Limited Partnership	Chicago
145172	Lost Hills WWTF	Lost Hills Utility District	Lost Hills
142567	Lower Moosa Canyon Recl Facil	Valley Center MWD	Valley Center
334494	Lytle Creek North WWTP	San Bernardino Cnty Special Districts	Victorville
141975	Lytle Creek WWTP	San Bernardino Cnty Special Districts	Victorville
132842	Mace Meadows Leachfield/Fairway Pines Leachfield	Amador Water Agency	Sutter Creek



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144152	Madera Cnty #14-Chukchase WWTF	Madera County Public Works Department - Special Districts	Madera
144166	Madera Cnty #19-Parkwood WWTF	Madera County Public Works Department - Special Districts	Madera
146271	Madera Cnty #22A-Oakhurst WWTF	Madera County Public Works Department - Special Districts	Madera
393293	Madera Cnty #24 Teaforde Meadow Lakes WWTF	Madera County Public Works Department - Special Districts	Madera
146329	Madera Cnty #27-Goldside Estates WWTF	Madera County Public Works Department - Special Districts	Madera
142311	Madera Cnty #2-Bass Lake WWTF	Madera County Public Works Department - Special Districts	Madera
145337	Madera Cnty #37-La Vina WWTF	Madera County Public Works Department - Special Districts	Madera
393300	Madera Cnty #7-Marina View Heights WWTF	Madera County Public Works Department - Special Districts	Madera
145269	Madera Cnty #8A-North Fork WWTF	Madera County Public Works Department - Special Districts	Madera
145289	Madera WWTF	Madera City	Madera
147706	Madison WWTF	Madison Service District	Madison
387532	Malaga CWD WWTF	Malaga CWD	Fresno
384644	Malibu Bay Club WWTP	Ventura Regional Sanitation District	Ventura
379174	Malibu Civic Center Wastewater Treatment Facility		Malibu
359786	Malibu Lumber at Legacy Park	Malibu Lumber LLC	Malibu
141546	Malibu Mesa WRP	Los Angeles Cnty DPW	Alhambra
136537	Malibu WWRP	Los Angeles Cnty DPW	Alhambra

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145892	Mammoth CWD STP	Mammoth Water District	Mammoth Lakes
362897	Mammoth Lakes WTP Teritiary Unit	Mammoth Water District	Mammoth Lakes
147525	Mammoth Mtn Ski Area WTF	Mammoth Mountain Ski Area LLC	June Lake
139078	Manila CSD WWTP	Manila CSD	Arcata
418662	Margaret H Chandler WWRF	San Bernardino City Municipal Water Dept	San Bernardino
147834	Maricopa Wastewater Disposal Facility		Maricopa
409704	Marin CSD 5 Paradise Cover WWTP	Marin Cnty Sanitary District 5	Tiburon
423353	Marin CSD 5 Tiburon WWTP	Marin Cnty Sanitary District 5	Tiburon
385864	Mariposa WWTP	Mariposa PUD	Mariposa
145323	Markleeville Wstwr Trtmnt Sys	Markleeville PUD	Markleeville
148426	Marysville WWTP	Marysville City	Marysville
368841	Maxwell PUD WWTF	Maxwell PUD	Maxwell
139186	Mayacama Golf Club LLC	Mayacama Golf Club LLC	Santa Rosa
411810	McCloud WWTF	McCloud Community Services District	Mccloud
330608	McFarland WWTF	McFarland City	McfarInd
376956	McKinleyville CSD	McKinleyville CSD	McKinleyville
337071	McMor Chlorination (I-5 & Highway 58 WWTF)	McMor Chlorination	Bakersfield
324379	Meadowlark WRP	Vallecitos Water District	San Marcos

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399815	Mendocino City CSD	Mendocino City CSD	Mendocino
405526	Mendocino County WWD#2-Anchor Bay	Mendocino County WWD #2 Anchor Bay	Gualala
330730	Mendota WWTF	Mendota City	Mendota
393484	Merced Irrigation District, Barrett Cove	Merced Irrigation District	Merced
393487	Merced Irrigation District, Horseshoe Bend	Merced Irrigation District	Merced
393488	Merced Irrigation District, McClure Pt Rec Area	Merced Irrigation District	Merced
393483	Merced Irrigation District, McSwain Rec Area WWTF	Merced Irrigation District	Merced
402689	Merced Land Application Area	Merced City	Merced
146934	Mesa Dunes Mobile Home Estates	Flesco General Partnership	Ontario
205766	Mid Valley Parkway 97-70019	Palm Springs City	Palm Springs
146902	Middletown STP (SD 2-2)	Lake Cnty	Lakeport
394236	Millbrae WWTP	Millbrae City	Millbrae
330648	Millerton New Town Recycling System	Fresno County	Fresno
131801	Miranda POTW	Miranda CSD	Miranda
147032	Mission Hills La Purisima WWTP	Mission Hills CSD	Lompoc
148662	Moccasin Powerhouse	San Francisco City & County	Moccasin

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141280	Modesto Reservoir WWTP	Stanislaus Cnty Dept of Parks & Rec	Modesto
147127	Modesto WQCF WW Land Disposal (secondary trtmt)	Modesto City	Modesto
148398	Mojave STP	Mojave PUD	Mojave
141093	Mokelumne Hill WWTF	Mokelumne Hill SD	Mokelumne Hill
131484	Monarch Grove Reclamation	Monarch Grove Reclamation H2O	San Luis Obispo
138753	Montague STP	Montague City	Montague
136753	Montalvo WWTP	Montalvo Community Services District	Ventura
134809	Montebello Forebay Groundwater Recharge	Joint Outfall System	Whittier
243301	Montebello Forebay Groundwater Recharge	Montebello Forebay Groundwater Recharge	Whittier
388741	Montecito SD WWTP	Montecito Sanitary District	Santa Barbara
148201	Monterey CSA - Chualar WWTP	Monterey County DPW	Salinas
396653	Monterey One Water	Monterey One Water	Monterey
146956	Monterey Regional Reclamation (Producer)	Monterey One Water	Monterey
131554	Moorpark WWTP	Ventura County Special Districts	Moorpark
354386	Moreno Valley RWRf	Eastern Municipal Water District	Perris
418033	Morro Bay/Cayucos WWTP	Morro Bay SD	Morro Bay

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379099	Mount Shasta WWTP	Mt Shasta City	Mt Shasta
416414	Mountain House WWTP	Mountain House CSD	Mountain House
131616	Mountain of Attn Sanctuary	Joahannine Daist Communion	Middletown
146081	Mountain View Villas	Aberdeen Real Estate Investments #2, LLC	Chandler
406134	Mt. View Sanitary District WWTP	Mt View Sanitary District	Martinez
148661	Murphys WWTF	Murphys SD	Murphys
368742	Napa Berryessa WTF	Napa Berryessa Resort IMP Dist	Napa
380595, 407648	Napa Sanitation District	Napa Sanitation District	American Canyon
148011	Nebo Domestic WTF	US Marine Corps Barstow Logistic Base	Barstow
146905	Nevada City School of the Arts Wastewater Facility	Nevada City School of the Arts	Nevada
413894	Nevada City WWTP	Nevada City	Nevada City
140607	New Don Pedro Recreation	NEW DON PEDRO RECREATION	La Grange
418824	New Melones Lake Glory Hole Recreation Area	USDI Bureau of Reclamation Sonora	Sonora
362082	New Piru WTF	Ventura Cnty Waterworks District 16	Moorpark
139224	Newell CWD STP	Newell CWD	Tulelake
393506	Niland SD-Emer Disch	Niland SD	Niland

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146917	Nipomo CSD Black Lake - Reclaimed Water Producer	Nipomo CSD	Nipomo
383695	Nipomo CSD Southland Treatment Facility	Nipomo CSD	Nipomo
333653	NORSO Sills Reclamation Project	North of River SD #1	Bakersfield
402158	North City WRP	San Diego City Metropolitan Wastewater Dept (Public Utilities)	San Diego
379405	North Fresno WWRF	Fresno County	Fresno
139946	North San Juan WW Facility	Nevada CSD No 1	Penn Valley
388686	North San Mateo CSD- Harding Park Recycled Water	North San Mateo County Sanitation District	Daly City
298679	North San Mateo CSD Water Recycling	North San Mateo County Sanitation District	Daly City
414390	North San Mateo CSD WWTP	North San Mateo County Sanitation District	Daly City
147812	North Shafter Farm Labor Camp	Kern Cnty Housing Authority	Bakersfield
391075	North Shore WRP	Coachella Valley WD	Coachella
405123	North Valley Regional Recycled Water Program - Modesto WWTP & Turlock RWQCF		Modesto
132444	Northshore Pleyto WWTP	Monterey Cnty Parks Dept	Bradley
404089	Northwest WWTF	Rio Vista City	Rio Vista

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376109	Novato SD & NMWD Recycled Water	North Marin Water District (Recycled Water, SFBayRegion)	Novato
142326	Novato SD Recycled Water (2y) to Pasture	Novato Sanitary District	Novato
380584	Novato SD Recycled Water Treatment Facility	Novato Sanitary District	Novato
148172	NW Regional Waste Disp Fac	Lake Cnty	Lakeport
131134	Oak Shores Lake Nacimiento	San Luis Obispo CSA #07 Oak Shores	San Luis Obispo
385669	Oakdale WWTF	Oakdale City	Oakdale
327478	Oakwood Lake WWTF	Oakwood Lake Water District	Stockton
137774	Oceana Marin (North Marin CWD)	North Marin County Water District	Novato
386791	OCSD Plant 1~::~OCSD Plant 2	Orange CSD	Fountain Valley
424638	Ojai Valley WWTP	Ojai Valley Sanitary District	Ojai
405016	Olivehurst WWTP	Olivehurst PUD	Olivehurst
400620	Onsite Wastewater Disposal System and Water Recycling Facility	Malibu La Paz Ranch, LLC	Santa Monica
132495	Orange Cove WWTF	Orange Cove City	Orange Cove
420108	Oro Loma/Castro Valley SD WPCP	Oro Loma Sanitary District	San Lorenzo
148432	Orwood Resort WWTF	Orwood Resort Inc	Brentwood
369637	Oxnard Wastewater Treatment Plant	Oxnard City	Oxnard

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142041	Pacific Union College WWTP	Pacific Union College	Angwin
376837	Pacifica Recycled Water Project	North Coast County Water District	Pacifica
359226	Pajaro Valley WMA and City of Watsonville Water Reclamation	Pajaro Valley Water Management Agency	Watsonville
420073	Palm Desert WRP #10	Coachella Valley WD	Coachella
164105	Palm Springs Village-309, LLC Silvertip Resort Village WWTF	Palm Springs Village - 309, LLC	Santa Ana
391803	Palm Springs WWTF	Palm Springs City	Palm Springs
383357	Palmdale Water Reclamation Plant	Los Angeles County Sanitation District 20	Whittier
142791	Palo Alto Recycled Water Program	Palo Alto City	Palo Alto
396790	Palo Alto Regional WQCP	Palo Alto City	Palo Alto
413929	Palo Cedro WWTF	Shasta CSA #8	Redding
403146	Paradise Cove Mobile Home Park & Paradise Cove Beach Cafe	The Kissel Company Inc.	Malibu
381339	Paradise Ranch Wastewater Treatment Plant	Paradise Ranch LLC	Castaic
147200	Park Knolls Subdivision	Park Knolls POA	Boron
145326	Parlier WWTF	Parlier City	Parlier
147281	Pasadera WWTP	California American Water Company Monterey	Pacific Grove



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412392	Pasatiempo Golf Club Recycled Water Project (System No. 4490004)	Pasatiempo Inc.	Santa Cruz
379360	Paso Robles WWTP	City of El Paso de Robles	Paso Robles
148303	Penn Valley WWTP	Nevada CSD No 1	Penn Valley
298662	Petaluma City Water Recycling Program	Petaluma City DPW	Petaluma
405677	Petaluma Ellis Creek Water Recycling Facility (NPDES Permit)	Petaluma City DPW	Petaluma
142605	Pilot Rock Cons Camp Pack WTF	Pilot Rock CC	Crestline
365748	Pine Grove Community Leachfield System	Amador Water Agency	Sutter Creek
142345	Pinecrest WWTP	Pinecrest Permit Assoc & US Forest Service	Pinecrest
403753	Pismo Beach WWTP	Pismo Beach City	Pismo Beach
336354	Pixley WWTF	Pixley PUD	Pixley
325196	Planada WWTF	Planada CSD	Planada
395741	Pleasant Grove WWTP	Roseville City	Roseville
331473	Pleasant Valley State Prison WWTF	Ca Dept of Corrections Coalinga	Coalinga
404837	Plymouth WWTP	Plymouth City	Plymouth
173742	Poe Colonia (Cady Subdivision)	Imperial Cnty Dept Community & Economic Dev	El Centro

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131628	Point Arena Wastewater Treatment Plant	Point Arena City	Point Arena
134055	Point Dume Club WWRP	Point Dume Limited	Malibu
414988	Point Loma WWTP & Ocean Outfall	San Diego City Metropolitan Wastewater Dept (Public Utilities)	San Diego
134831	Pomona Water Reclamation Plant	Joint Outfall System	Whittier
145589	Poplar WWTF	Poplar CSD	Poplar
344805	Porterville WWTF	Porterville City	Porterville
397557	Portola WWTP	Portola City	Portola
392883	Price Canyon Production Facility	Freeport-McMoRan Oil & Gas	Los Angeles
141225	Princeton WWTP	Princeton Water Works Dist	Princeton
412699	Pure Water Monterey	Monterey One Water	Monterey
805968	Pure Water Monterey	Pure Water Monterey	Marina
366361	Ragged Point Inn Motel	Ragged Point Inn	San Simeon
401763	Ralph W Chapman WRF	Otay MWD	Spring Valley
371615	Rancho Larios	San Benito County Service Area 45	San Jose
394415	Rancho Murieta CSD WWT & Rec	Rancho Murieta CSD	Rancho Murieta
142398	Rancho Santa Fe San Dist Plant	Rancho Santa Fe Community Services District	Encinitas
401764	Ray Stoyer Water Recycling Facility	Padre Dam Municipal Water District	Santee
131220	Reclam, OCWD-Green Acres	Orange County Water District	Fountain Valley
131220	Reclam, OCWD-Green Acres	Reclam, OCWD-Green Acres	Fountain Valley

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421692	Red Bluff WW Reclamation Plant	Red Bluff City	Red Bluff
144066	Redlands WWRF	Redlands City	Redlands
416349	Redway POTW	Redway CSD	Redway
351616	Redwood City Recycled Water	Silicon Valley Clean Water (Redwood City)	Redwood City
333271	Reedley WWTF	Reedley City	Reedley
381374	Rialto WWRF	Rialto City	Rialto
141488	Richardson Bay SD- Recycled Water	Richardson Bay SD- Tiburon City	Tiburon
135299	Richardson Springs CSD	Richardson Springs CSD	Richardson Springs
143866	Richgrove WWTF	Richgrove CSD	Richgrove
140415	Ridgecrest WTF	Ridgecrest City	Ridgecrest
133135	Ridgemark Estates WWTP	Sunnyslope CWD	Hollister
406955	Rio Dell City WWTF	Rio Dell City	Rio Dell
139965	Rio Ramaza WW Disposal Ponds	Sutter Cnty DPW	Yuba City
395363	Rio Vista City	Rio Vista City	Rio Vista
414256	Ripley WTP 03-012	Riverside Cnty Service Area #62	Desert Center
140988	Ripon Industrial & Domestic TP	Ripon City	Ripon
139789	River Pines WWTP	River Pines PUD	River Pines
141726	Riverbank WWTP	Riverbank City	Riverbank
411621	Riverdale WWTF	Riverdale PUD	Riverdale
376054	Riverside City WWRF	Riverside City	Riverside
390213	Riverside Recycled Water Distribution System	Riverside City - Public Utilities	Riverside
396966	Riverstone WWTF	Root Creek Water District	Madera

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146226	Robbins WWTF	Sutter Cnty DPW	Yuba City
146146	Rock Creek Area WTP	USDA Forest Service Inyo NF Bishop	Bishop
416321	RODEO Sanitary District WWTP	Rodeo Sanitary District	Rodeo
146117	Rolling Green Terrace WTF	Rolling Green Utilities Inc	Big Pine
140394	Rollins Reservoir Rec Areas	Nevada ID	Nevada City
146855	Roseville City Master Reclamation Permit	Roseville City	Roseville
146107	Rovana Housing Package STP	US Tungsten Div of Stratcor	Mammoth Lakes
146356	R-Ranch Campground WWTF	R-Ranch at the Lake	Napa
138550	Running Springs WWTP	Running Springs Water Dist	Running Springs
387531	Russell City Energy Center Recycled Water Facility	Russell City Energy Company LLC	Houston
400866	Sac City Combined WW Collection/TRT Sys	Sacramento City	Sacramento
405960	Sacramento Regional WWTP	Sacramento Regional CSD	Elk Grove
142003	Salida WWTP	Salida Sanitary District	Salida
399457	Salton Community Services Dist (Desert Shores WWTP)	Salton Community Services Dist	Salton City

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420382	Salton Community Services Dist (Thomas R. Cannell WWTP)	Salton Community Services Dist	Salton City
417027	SAM WWTP (Sewer Authority Mid-Coastside Wastewater Treatment Plant)	SEWER AUTHORITY MID-COASTSIDE	Half Moon Bay
425799	San Andreas SD WWTP	San Andreas SD	San Andreas
144194	San Ardo STP	San Ardo Water District	San Ardo
134180	San Buenaventura City Of	San Buenaventura City Of	VENTURA
399403	San Clemente Island WWTP	US Navy Naval Facilities Engineering Command Southwest	San Diego
143551	San Diego Zoo's Safari Park	San Diego Zoological Society	Escondido
147513	San Elijo Water Reclamation Facility	San Elijo Joint Powers	Cardiff By The Sea
407944	San Francisco Intl Airport - Recycled Water	San Francisco International Airport	San Francisco
354386	San Jacinto Valley RWRP	Eastern Municipal Water District	Perris
132422	San Jerardo WWTP	San Jerardo Inc.	Salinas
140989	San Joaquin Cnty (CSA 15 - STP)	San Joaquin Cnty	Stockton
141727	San Joaquin Cnty Housing Authority, Thornton Farm Labor Camp	San Joaquin Cnty Housing Authority	Stockton
324939	San Joaquin WWTF	San Joaquin City	San Joaquin

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147694	San Jose City Family Camp	San Jose City	San Jose
372176	San Jose Creek Water Reclamation Plant	San Jose Creek Water Reclamation Plant	WHITTIER
398075	San Jose/Santa Clara WPCP	San Jose City	San Jose
364328	San Juan Bautista WWTP	San Juan Bautista City	San Juan Bautista
144863	San Luis Hills WWTF	San Luis Water District	Los Banos
132348	San Luis Obispo Water Reclamation Facility / WWTP	San Luis Obispo City	San Luis Obispo
399576	San Luis Obispo WWTP	San Luis Obispo City	San Luis Obispo
401761	San Luis Rey Wastewater	San Luis Rey Wastewater	Oceanside
421205	San Mateo WWTP	San Mateo City	San Mateo
170691	San Miguel Produce WWTP	San Miguel Produce, Inc.	Oxnard
147307	San Miguel SD WWTP	San Miguel CSD	San Miguel
134976	San Nicolas Island WWTP	US Navy Naval Base Ventura County	Point Mugu
392787	San Simeon WWTP	San Simeon CSD	San Simeon
362394	San Vicente Wastewater Treatment Plant	Ramona MWD	Ramona
144374	Sandy Mush WWTF	Merced Cnty Correction Facility	Merced
394866	Sanger WWTF	Sanger City	Sanger
424946	Santa Cruz Co Medium Security	Santa Cruz Cnty DPW	Santa Cruz
418035	Santa Cruz WWTP	Santa Cruz City	Santa Cruz

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132007	Santa Fe Valley WTP	Rancho Santa Fe Community Services District	Encinitas
405498	Santa Lucia WW Recycling Facility (Prod/User)	Santa Lucia CSD	Carmel
404699	Santa Maria WWTP	Ramona MWD	Ramona
144018	Santa Nella WWTF	Santa Nella CWD	Santa Nella
410569	Santa Paula Water Recycling Facility	Santa Paula City	Santa Paula
137649, 378138	Santa Rosa Laguna Subregional Water Reclamation Facility	Santa Rosa City Dept of Public Works	Santa Rosa
147138	Santa Rosa WRF-Recycled WTR	Rancho California Water District	Temecula
146854	Sas Regional Reclamation Facility	Sacramento Regional CSD-Elk Grove	Elk Grove
378562	SASM Recycled Water Program~//~SASM WWTP	Sewerage Agency of Southern Marin	Mill Valley
406032	Saticoy Foods Corporation	Saticoy Foods Corporation	Saticoy
133827	Saugus Water Reclamation Plant	Los Angeles County Sanitation Districts	Santa Clarita
388187	SAUSALITO-MARIN CITY SAN DIST	SAUSALITO-MARIN CITY SAN DIST	Sausalito
379574	SCICON WWTF	Tulare Cnty Office of Education	Visalia
394630	SCLA Central WWTP-Victorville Water Dist	Victorville City	Victorville

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148618	Scotts Valley WWTF Producer	Scotts Valley Water District	Scotts Valley
389665	Scotts Valley WWTP	Scotts Valley Water District	Scotts Valley
148564	SCWA Airport WRF (Airport-Larkfield-Wikiup)	Sonoma County Water Agency (SCWA) R1	Santa Rosa
139182	SCWA Geyserville CSD	Sonoma County Water Agency (SCWA) R1	Santa Rosa
392149	SCWA Russian River CSD	Sonoma County Water Agency (SCWA) R1	Santa Rosa
417936	Seeley CWD WWTP	Seeley Cnty WD	Seeley
393595	Sequoia Dawn Apartments	Ocean Park Manor LLC	South Pasadena
145550	Sequoia Field WWTF	Tulare Cnty Building Service & Park Dept	Visalia
423343	Sewerage Agency of Southern Marin WWTP	Sewerage Agency of Southern Marin	Mill Valley
397468	Sewerage Commission Oroville Region WWTP	Sewerage Commission Oroville Region	Oroville
360578	SF - OCEANSIDE Water Pollution Control Plant	San Francisco Public Utilities Commission	San Francisco
425630	SF Airport Mel Leong TP	San Francisco International Airport	San Francisco
392750	SF-SE Water Pollution Control Plant, N-Point & Bayside	San Francisco Public Utilities Commission	San Francisco
143900	Shady Lakes MHP	Myers, Don	Canyon Country
144652	Shafter Airport WWTF	Minter Field Airport District	Shafter



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385638	Shasta College Sewage Disposal Pond	Shasta Tehama Trinity Joint Community College Dist	Redding
395785	Shasta Lake WWTF	Shasta Lake City	Shasta Lake
400323	Shelter Cove POTW	Humboldt County Resort Improvement District #1	Whitethorn
139541	Sierra Co Serv Area 5 Zone 5A	SIERRA CO SERV AREA 5 ZONE 5A	Downieville
148827	Sierra Conservation CTR-WWTP-1 (NON15)	Ca Dept of Corrections & Rehabilitation	Sacramento
144566	Sierra High School WWTF	Sierra Joint Union High School District	Tollhouse
383082	Silicon Valley Advanced Water Purification Center		San Jose
133824	Simi Valley WQCP	Simi Valley City	Simi Valley
131438	SKF CSD WWTF	Selma-Kings-Fowler CSD	Kingsburg
358243	Skyline Ranch Country Club	Skyline Ranch Country Club LLC	Rancho Santa Fe
144174	Snelling WWTF	Snelling CSD	Snelling
146536	Snow Valley Ski Area	Running Springs Water Dist	Running Springs
402976	SOCWA	SOCWA-Recycled Water Use	Dana Point
402976	SOCWA Regional TP	SOCWA-Recycled Water Use	Dana Point
142903	SOCWA-Recycled Water Use	SOCWA-Recycled Water Use	Dana Point
349587	Soledad Sewage Treatment Plant	Soledad City	Soledad
336192	Solvang WWTP	Solvang City	Solvang
388228	Sonoma Valley CSD Recycled Water Program / WWTP	Sonoma Valley County Sanitation District	Santa Rosa

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396238	Sonoma Valley CSD WWTP	Sonoma Valley County Sanitation District	Santa Rosa
399211	Sonoma West Holdings Plant #2 Facility	Sonoma West Holding Inc	Sebastopol
397052	South Bay International WTP	IBWC-US & Mexico Section	San Diego
142166	South Bay Water Recycling Program	South Bay Water Recycling	San Jose
148190	South Bay WRP	San Diego City Metropolitan Wastewater Dept (Public Utilities)	San Diego
147279	South County Regional WW Authority - Reclaiming WW Facility	South County Regional WW Authority	Gilroy
418038	South County Regional WW Authority - WWTP	South County Regional WW Authority	Gilroy
395656	South San Francisco-San Bruno WQCP		South San Francisco
371962	South Slo Co Sanitation Dist.	SOUTH SLO CO SANITATION DIST.	oceano
146234	Southeast Regional WW System	Lake Cnty	Lakeport
414159	Southern Regional Tertiary Treatment Plant	AC/S Environmental Security, MCB Camp Pendleton	Oceanside
140733	Southworth Ranch Estates WWTF	Calaveras Cnty Water District	San Andreas
307579	Spalding Tract Sewer System	Spalding Community Service District	Susanville

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141184	Spanish Flat WWT & Disposal Facility	Spanish Flat Water District/Monticello Public Cemetery	Napa
145701	Springville WWTF	Springville PUD	Springville
141290	St Helena Hospital WWTP	St. Helena Hosp & Health Ctr	St. Helena
141296	St. Helena City Recycled Water Program	St. Helena City	St. Helena
404297	St. Helena City WWTP	St. Helena City	St. Helena
390414	Stallion Springs WWTF	Stallion Springs CMSD	Tehachapi
422002	Stillwater WWTF	Redding City	Redding
134605	Stillwater WWTP Reclamation	Redding City	Redding
396967	Stockton Regional WW Control Facility	Stockton City	Stockton
147582	Stovepipe Wells Village	USDI National Park Service Death Valley SW Village	Death Valley
375578	STPUD Wastewater Treatment Plant	South Tahoe PUD	South Lake Tahoe
409890	Stratford WWTF	Stratford PUD	Stratford
408402	Strathmore WWTF	Strathmore PUD	Strathmore
392876	Summerland SD WWTP	Summerland SD	Summerland
398068	Sunnyvale WPCP	Sunnyvale City	Sunnyvale
143309	Sunnyvale WPCP-Water Recycling	Sunnyvale City	Sunnyvale
350221	Susanville CSD	Susanville Consol SD	Susanville
141771	Sutter Creek WWTP	Sutter Creek City	Sutter Creek
351981, 367155	Taft Federal Prison WWTF	Taft City	Taft

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131270	Tahoe Truckee Sanitation Agency	Tahoe Truckee Sanitation Agency	Truckee
135049	Tapia WRF	Las Virgenes MWD	Calabasas
146540	Tecopa Hot Springs Park WWTF	Inyo Cnty Dept of Parks & Rec	Bishop
146879	Tecopa Hot Springs Resort LLC	Noel, Amy	Tecopa
389883	Tehachapi Correctional Inst WWTF	Ca Dept of Corrections & Rehabilitation	Sacramento
144455	Tehachapi WWTF	Tehachapi City	Tehachapi
368204	Tejon Industrial Complex East WWTF		Lebec
394108	Temescal Creek Outfall	Eastern Municipal Water District	Perris
388621	Temescal Valley WD WWRF	Temescal Valley Water District	Corona
415420	Tenaya Lodge Wastewater Treatment Plant	DNC Parks & Resorts at Tenya Inc	Fish Camp
145280	Terra Bella WWTF	Terra Bella Sewer MD	Visalia
402537	Tesoro Viejo Wastewater Treatment Plant	Tesoro Viejo Master Mutual Water Company	Fresno
330262	The Thacher School Wastewater Treatment Plant	The Thacher School	Ojai
359063	Thomas Aquinas College	Thomas Aquinas College	Santa Paula
401600	Thunder Valley Casino WWTP	United Auburn Indian Community	Auburn
140409	Tinsley Island WWTF	St. Francis Yacht Club	San Francisco
144214	Tipton WWTF	Tipton CSD	Tipton

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147537	Tivoli Cove Homeowners Association	Tivoli Cove Homeowners Association	Lake Balboa
377941	TODD ROAD JAIL WWTP	Ventura Cnty Public Works Agency	Ventura
402066	Tomales Village WWTP	Tomales Village CSD	Tomales
136800	Top O'Topanga Community Association Wastewater Treatment Plant	Top O'Topanga Community Association	Covina
146832	Toyon Middle School	Calaveras Unified SD	San Andreas
416413	Tracy WWTP	Tracy City	Tracy
397452	Trancas WPCP	Los Angeles Cnty DPW	Alhambra
143396	Tranquillity WWTF	Tranquillity PUD	Tranquillity
399564	Treasure Island WWTP/DOD	US Navy Treasure Island	San Francisco
384520	Tres Pinos WWTP	Tres Pinos WD	Tres Pinos
416476	Trimmer Recreation Area - Pine Flat Lake	US Army Corps of Engineers - Pine Flat Lake	Piedra
366371	Trinity County Waterworks District #1 Hayfork WWTP	Trinity County Waterworks District	Hayfork
146530	Trona & Pioneer Point WTF	San Bernardino Cnty CSA 82	Victorville
367947	Tulare WWTF	Tulare City	Tulare
397123	Tulelake City WWTP	Tulelake City	Tulelake
146428	Tuolumne STP	Tuolumne City SD	Tuolumne
131406, 141783, 148511	Tuolumne Utilities District	Tuolumne Utilities District	Sonora

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401269	Turlock City, Turlock Regional Water Quality Control Facility	Turlock City	Turlock
393568	Two Harbors STP, Catalina Island	Santa Catalina Island Co	Avalon
399193	UC Davis Main WWTP	UC Davis	Davis
413425	Ukiah City WWTP	Ukiah City	Ukiah
319757	US Coast Guard Tracen	US Coast Guard Tracen	Petaluma
397032	US General Services Administration - San Ysidro Port of Entry	US General Services Administration - San Ysidro Port of Entry	San Diego
407223	US Navy Naval Air Facility WWTP	US Navy Naval Air Station El Centro	El Centro
143444	USDI NPD Devils Postpile Facilities	USDI National Park Service Devils Postpile	Mammoth Lakes
319757	USDOT Coast Guard TRACEN - Tomales	US Coast Guard Tracen	Petaluma
405195	USMC - Mainside WWTF	US Marine Corps Twentynine Palms NREA AGCC	Twentynine Palms
389917	USMC Camp Pendleton Northern Regional Tertiary Treatment Plant	AC/S Environmental Security, MCB Camp Pendleton	Camp Pendleton
397736	Valencia Water Company Recycled Water Loading Stands	Santa Clarita Valley Water Agency - Valencia Water Division	Valencia
133826	Valencia WRP	Los Angeles County Sanitation Districts	Whittier

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416372	Vallejo F&WD (formerly SFCD) WWTP	Vallejo Flood & Wastewater District (formerly Vallejo San & Flood Control District)	Vallejo
401332	Valley SD WWTP	Valley Sanitary District	Indio
133379	Valley Springs SD WWTF	Valley Springs SD	Valley Springs
389949, 400390	Victor Valley Wastewater Reclamation Authority WTP	Victor Valley Wastewater Reclamation Authority	Victorville
347927	Virginia Dare Winery (Coppola #9/Geyser Peak Winery)	Francis Coppola Winery LLC	Geyserville
421399	Visalia Water Recycling Project	Visalia City	Visalia
383443	Visalia, City Of	VISALIA, CITY OF	VISALIA
395574	Vista Canyon Water Factory (City of Santa Clarita)	Santa Clarita City	Santa Clarita
377321	VVWRA Sub-Regional Plant-Apple Valley	Victor Valley Wastewater Reclamation Authority	Victorville
377320	VVWRA Sub-Regional Plant-Hesperia	Victor Valley Wastewater Reclamation Authority	Victorville
135000	Warm Springs Rehabilitation Center	Los Angeles County Health Dept	Acton
144441	Wasco State Prison WWTF	Ca Dept of Corrections & Rehabilitation	Sacramento
131603	Wasco WWTF	Wasco City	Wasco
131119	Wastewater Management Division	Wastewater Management Division	FRESNO
140995	Waterford WWTP	Waterford City	Waterford

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396491	Watsonville WWTP	Watsonville City	Watsonville
420594	Wawona WWTF	USDI National Park Service Yosemite National Park	El Portal
381306	Weaverville SD WWTP	Weaverville Sanitary District	Weaverville
138756	Weed Shastina WWTP	Weed City Dept of Public Works	Weed
138755	Weed WWTP	Weed City Dept of Public Works	Weed
390243	West County Agency	West County Agency	Richmond
140868	West Point WWTP	Calaveras Cnty Water District	San Andreas
144369	Western Hills WWRF	West Hills Golf Associates Ltd	Chino
363275	Western MWD - Murreta Division Area	Western Municipal Water District	Riverside
132543	Western MWD - Water Recycling Facility	Western Municipal Water District	Riverside
140871	Westley Comm Sewage Trt Fac	Westley Community Service District	Westley
416553	Westmorland City WWTP	Westmorland City	Westmorland
138704	Westport CWD	Westport CWD	Westport
148512	Westwood STP	Westwood CSD	Westwood
142238	Whispering Palms WPCF	Whispering Palms Community Services District	Encinitas
333528	White Slough Water Pollution Control Facility	Lodi City	Lodi
404820	Whitehawk Ranch WWTP	Whitehawk Ranch Mutual Water Company	Clio
408201	Whittier Narrows Water Reclamation Plant	Joint Outfall System	Whittier



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131300	Wild Wings Water Recycling Facility	Yolo Cnty	Woodland
131516	Wildwood MHP	Stinehart, Richard	Irvine
396977	Williams WWTP	Williams City	Williams
400116	Willits City WWTP	Willits City	Willits
132105	Willow Springs MHP	RJR Thomas LP	Modesto
410961	Willows Wastewater Treatment Plant	Willows City	Willows
146132	Windflower Point STP	Los Brez Park Mutual Water Company	Napa
382410	Windsor Town WWTP	Windsor Water District	Windsor
397392	Winters City WTF	Winters City	Winters
131692	Winters City WWTF	Winters City	Winters
421408	Woodard Bottom Recycled Water Project		Ione
141175	Woodbridge SD-Sewage Treatment	Woodbridge Sanitary District	Woodbridge
148506	Woodlake Sentinel Butte Recycling Project	Woodlake City	Woodlake
371066	Woodlake WWTF	Woodlake City	Woodlake
406725	Woodland Land Application Area	Woodland City	Woodland
422799	Woodlands Mutual Water Company	Woodlands Mutual Water Company	Arroyo Grande
403881	Woods Valley Ranch Water Reclamation Facility	Valley Center MWD	Valley Center
143798	Woodville Farm Labor Center	Tulare Cnty Housing Authority	Visalia

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144641	Woodville WWTF	Woodville PUD	Woodville
141279	Woodward Reservoir Reg Park	Stanislaus Cnty Dept of Parks & Rec	Modesto
396787	WRCRWA Regional WWRF	Western Riverside County Regional Wastewater Authority	Riverside
137698	Xaan-Wan'-K'wvt Village & Resort (Ship Ashore Resort)	Xaa-Wan'-K'Wvt Village & Resort	Smith River
148406	Yermo Domestic WTF	US Marine Corps Barstow Logistic Base	Barstow
147703	Yosemite Lakes Campground	MHC NAC Inc	Groveland
383860	Yosemite Nat Prk Hodgdon MDW	USDI National Park Service Yosemite National Park	El Portal
141997	Yosemite Nat Prk Tuolumne MDWS	USDI National Park Service Yosemite National Park	El Portal
146513	Yosemite Pine RV Park	Majistee Corporation	Groveland
148098	Yosemite Vista Estates	Yosemite Vista Estates	Groveland
145594	Yosemite West MD WWTF	Mariposa Cnty DPW	Mariposa
401478	Yountville / CA Vets Home WWTP	Yountville, Town of	Yountville
378567	Yountville Water Recycling	Yountville, Town of	Yountville
132393	Yreka City WWTP	Yreka City	Yreka
392719	Yuba City	Yuba City	Yuba City
140419	Yuba Cnty Motorplex WWTF	Yuba Cnty Motorplex LLC	Marysville