

# **KEY REGULATORY ISSUE SUMMARY Updated September 5, 2023**

Action items for member agencies are in **bold** 

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#### **NUTRIENTS IN SAN FRANCISCO BAY**

- San Francisco Bay receives some
   of the highest nitrogen loads among
   estuaries worldwide, yet has not
   historically experienced the water
   quality problems typical of other
   nutrient-enriched estuaries. It is not
   known whether this level of nitrogen
   loading, which will continue to
   increase in proportion to human
   population increase, is sustainable
   over the long term.
- Because of the complexity of the science behind nutrient impacts in SF Bay, stakeholders in the region are participating in the Nutrient Management Strategy (NMS) steering committee to prioritize scientific studies and ensure that all science to be used for policy decisions is conducted under one umbrella.
- For FY24, BACWA is contributing \$1.8M to fund scientific research needed to make management decisions for the 3<sup>rd</sup> Watershed Permit. This payment completes the science funding requirement in the 2<sup>nd</sup> Watershed Permit.
- The focus of current scientific efforts is improving model representation of biogeochemistry, light attenuation, dissolved oxygen, and harmful algal bloom dynamics.
- The science team is also developing an Assessment Framework for Open Bay habitats and Lower South Bay sloughs.
- In summer 2022, a harmful algae bloom in San Francisco Bay brought increased public attention to this topic. A smaller bloom recurred in summer 2023. In both cases, the NMS science team modified the science plan to conduct monitoring and assist with data interpretation.

- Continue to participate in NMS steering committee, Nutrient Technical Workgroup, and planning subcommittee meetings, and provide funding for scientific studies.
- Continue to assist with preparation of a brief "State of the Science" document summarizing the scientific accomplishments of the NMS team for public use.
- Continue to engage with Nutrient Technical Team and BACWA's Nutrient Management Strategy technical consultant, Mike Connor, to provide review of recent work products and charge questions for the science team.

BACWA Nutrients Page: <a href="https://bacwa.org/nutrients/">https://bacwa.org/nutrients/</a>

NMS FY24 Program Plan (Adopted May 2023) https://drive.google.com/drive/folders/1cZYArziJWiYUsWPPR 1OEuk52p9Sg7vn9

NMS Work Products https://sfbaynutrients.sfei.org/books/reports-and-work-products

BACWA Nutrient FAQ https://bacwa.org/wpcontent/uploads/2023/01/BAC WA-Nutrient-Fact-Sheet.pdf

2023 SF Bay Algal Bloom https://bacwa.org/general/2023 -algal-bloom-in-sf-bayupdated-8-3-2023/

#### SF BAY NUTRIENT WATERSHED PERMIT

- The 1<sup>st</sup> Nutrient Watershed Permit was adopted in 2014, and required a regional study on Nutrient Treatment by Optimization and Upgrades, completed in 2018.
- The 2<sup>nd</sup> Nutrient Watershed Permit was adopted in 2019. It includes:
  - Continued individual POTW nutrient monitoring and reporting;
- o Continued group annual reporting;
- Significantly increased funding for science:
- Regional assessment of the feasibility and cost for reducing nutrients through nature-based systems and recycled water;
- Establishing current performance for Total Inorganic Nitrogen (TIN), and "load targets" for nutrient loads based on 2014 to 2017 load data plus a 15% buffer for growth and variability
- Recognition of "early actors" who are planning projects that will substantially decrease TIN loads.
- Through the nutrient surcharge levied on permittees, BACWA funds compliance with the following provisions on behalf of its members:
  - Group Annual Reporting
  - Regional Studies on Nature-Based Systems and Recycled Water
  - Support of scientific studies through the Regional Monitoring Program (RMP) with \$11M over the five-year permit term.

- Studies related to Recycled Water and Nature-Based Systems were completed in June 2023, as required by the 2<sup>nd</sup> Nutrient Watershed Permit.
- Each year by February 1, BACWA submits a Group Annual Report on behalf of its members. The report summarizes trends in nutrient concentrations and loading for each agency, and for all the agencies as a whole. The annual reporting period in the 2<sup>nd</sup> Watershed Permit is based on a water year (Oct. 1 – Sept. 30). HDR will begin collected.
- In response to the summer 2022 algae bloom, Regional Water Board staff signaled that the 3<sup>rd</sup> Watershed Permit is likely to include nutrient load reduction requirements.
- The current concept proposed by the Regional Water Board is for the permit to contain interim limits for dry season TIN loads that are effective immediately and "final limits" that become effective after 10 years. The 10-year clock could be modified in subsequent permits if the "final limits" become more stringent, so the term "final" only applies to this specific permitting action.
- The recurrence of a smaller algae bloom in summer 2023 has increased public and regulator awareness of the issue, making significant nutrient load reductions more likely to be required.
- The NMS modeling team is developing and testing several load reduction scenarios to inform the 3<sup>rd</sup> Nutrient Watershed Permit.

 BACWA continues to convene a Nutrient Strategy Team to develop BACWA's key tenets for the 3rd Watershed Permit, and members are encouraged to participate. The Nutrient Strategy Team is actively engaging with the Regional Water Board to expand upon the key tenets and discuss implementation details for the 3<sup>rd</sup> Watershed Permit, including the magnitude and timing of required load reductions.

Next Steps for BACWA

- BACWA staff will continue to confer with larger wastewater treatment plants to identify projects that could reduce nutrient loads during the term of the 3<sup>rd</sup> Watershed Permit and beyond. This information is needed for development of the 3<sup>rd</sup> Watershed Permit fact sheet to support the compliance schedule that is anticipated to precede the final limits.
- Agencies will continue to report nutrient monitoring data both through CIWQS and directly to BACWA. Submittals for the 2022-2023 water year will be due to HDR in November 2023.

2nd Nutrient Watershed Permit:

https://www.waterboards.ca .gov/sanfranciscobay/board decisions/adopted orders/ 2019/R2-2019-0017.pdf

Special Studies of Recycled Water and Nature-Based Solutions:

https://bacwa.org/documentcategory/2nd-watershedpermit-studies/

Optimization/Upgrade
Study Information:
<a href="https://bacwa.org/document-category/optimization-and-upgrade-studies/">https://bacwa.org/document-category/optimization-and-upgrade-studies/</a>

BACWA Group Nutrient Annual Reports: http://bacwa.org/document-

http://bacwa.org/document category/nutrient-annualreports/

Presentations from 2023 BACWA Annual Members Meeting https://bacwa.org/document-

https://bacwa.org/document category/2023-annualmeeting/

BACWA Summary of Status of 3<sup>rd</sup> Watershed Permit Negotiations https://bacwa.org/wpcontent/uploads/2023/09/WSP -Negotiations-Update-2023-09-05.pdf

# **CHLORINE RESIDUAL COMPLIANCE**

- The Basin Plan chlorine residual effluent limit is 0.0 mg/L. Chlorine residual is the most frequent parameter for violations for Region 2 POTWs. Because there are 24 hourly reporting events each day, the "opportunities" for violations are enormous. However, the actual violation rates are infinitesimal (~0.001%).
- Agencies are overdosing their effluent with the dechlorination agent, sodium bisulfite, to prevent chlorine violations, a practice which costs more than \$1 million regionally each year.
- Regional Water Board staff and BACWA have worked together for more than decade to modify the effluent limit for chlorine residual.

- In 2020, the Regional Water Board adopted a Basin Plan Amendment that incorporated EPA's ambient water quality criteria for chlorine into the Basin Plan. Since the Basin Plan Amendment was not approved by EPA, it did not go into effect.
- In August 2023, the Regional Water Board issued a Tentative Order NPDES Permit Amendment that modifies effluent limits for residual chlorine for most dischargers. The revised limits are based on a translation of the Basin Plan's existing narrative toxicity objective. The NPDES Permit Amendment includes:
  - Limits calculated based on a 0.013 mg/L water quality objective in marine and estuarine waters, and incorporating dilution for deep water dischargers. The limits will be applied as a 1-hour average.
  - A Minimum Level of 0.05 mg/L for online continuous monitoring systems.
- The Tentative Order NPDES Permit Amendment requires most dischargers to prepare a Chlorine Process Control Plan targeting a chlorine residual of 0.0 mg/L at discharge points. The Chlorine Process Control Plan is part of the Operation and Maintenance Manual; updates are to be summarized with annual self-monitoring reports (typically due February 1st).

 Review the Tentative Order NPDES Permit Amendment modifying effluent limits for residual chlorine for most dischargers in the region. Comments are due by September 29, 2023.

Next Steps for BACWA

- If the Tentative Order NPDES
   Permit Amendment is adopted
   in November 2023, plan to
   comply with new effluent
   limits for residual chlorine and
   new Chlorine Process Control
   Plan requirements beginning
   January 1, 2024.
- BACWA will provide guidance through the Permits Committee as to how agencies can meet the new chlorine process control requirement.

Tentative Order Blanket NPDES Permit Amendment (Anticipated Effective Date: January 1, 2024) https://www.waterboards.ca.go v/sanfranciscobay/board\_info/ agendas/2023/November/Chlo rine/Tentaive\_Order.pdf

### **PESTICIDES**

 Pesticides are regulated via FIFRA, and not the Clean Water Act.
 POTWs do not have the authority to regulate pesticide use in their service area, but may be responsible for pesticide impacts to their treatment processes or to surface water.

**Background Highlights** 

- Through BAPPG, BACWA aims to proactively support a scientific and regulatory advocacy program so that pesticides will not impact POTWs' primary functions of collecting and treating wastewater, recycling water, and managing biosolids, or impact receiving waters via the "down the drain" route.
- EPA reviews all registered pesticides at least once every 15 years. Each review allows opportunity for public comment.
- BACWA continues to fund consultant support to write comment letters advocating for the consideration of POTW and surface water issues by EPA and the California Department of Pesticide Registration (CalDPR). Funding for pesticide regulatory outreach in FY24 is \$69K.The pesticides regulatory team also supports the California Stormwater Quality Association (CASQA) on outreach work related to urban pesticide use.
- The August 2023 version of the BAPPG/BACWA Pesticide Watch List adds indoor uses of Quaternary Ammonia Compounds, whose usage has been increasing in recent years.
- The Regional Water Board leverages BACWA's efforts to provide their own comment letters.
- Baywise.org has launched webpages on flea and tick control messaging to pet owners and veterinarians.
- In January 2023, CalDPR released a Sustainable Pest Management Roadmap. The Roadmap identifies actions that would enhance understanding of pesticide use in urban areas and enhance outreach to urban pesticide users. CalDPR is also pursuing a significant increase to the "Mill Fee," a tax on pesticide sales, to fund some activities identified in the Roadmap. If approved, the increases would begin in FY25.

- Advocate for implementation of specific actions from the Sustainable Pesticide Management Roadmap, and for increases in the Mill Fee to support implementation at CalDPR.
- Continue to comment on EPA pesticide re-registrations and CalDPR actions.
- Engage with EPA on proposed changes to the regulatory approval process for pesticides.
- Work with veterinary associations on messaging with respect to flea and tick control alternatives.
- Continue to develop summaries of EPA actions on pesticides.
- Look for opportunities to work with CalDPR on pesticides research.
- Work with other regional associations, such as CASQA to collaborate on funding pesticide regulatory outreach.

BACWA Pesticide Regulatory Support Page: https://bacwa.org/bappgpesticides/

Links/Resources

Baywise flea and tick pages:

https://baywise.org/residential/ pets/keep-pets-free-of-fleasand-ticks/

https://baywise.org/residential/pets/

BACWA-CASQA Urban Pesticides Collaboration Fact Sheet:

https://bacwa.org/wpcontent/uploads/2022/08/CAS QA-BACWA-Factsheet-July2022.pdf

CalDPR Sustainable Pest Management Roadmap <a href="https://www.cdpr.ca.gov/docs/pressrls/2023/012623.htm">https://www.cdpr.ca.gov/docs/pressrls/2023/012623.htm</a>

BACWA coalition letter on modernizing the pesticide approval process <a href="https://bacwa.org/document/bacwa-nacwa-coalition-comments-on-fda-epa-pesticide-modernization-2023-04-25/">https://bacwa.org/document/bacwa-nacwa-coalition-comments-on-fda-epa-pesticide-modernization-2023-04-25/</a>

BAPPG/BACWA
Pesticides Watch List
https://bacwa.org/wpcontent/uploads/2023/08/FINA
L-BACWA-Pesticides-WatchList-Aug-2023.pdf

#### **MERCURY AND PCBS**

- The Mercury & PCBs Watershed Permit is based on Total Maximum Daily Loads (TMDLs) for San Francisco Bay for each of these pollutants.
- The Mercury & PCBs Watershed Permit was most recently reissued in December 2022, and it continues to require discharger support for risk reduction activities. BACWA is funding risk reduction activities on behalf of its members to comply with this permit provision. For FY24, BACWA has budgeted \$12,500 to support risk reduction activities related to fish consumption.
- Aggregate mercury and PCBs loads have been well below waste load allocations through 2022, the last year for which data have been compiled.
- EPA Method 1668C for measuring PCB Congeners has not been promulgated by EPA. Effluent limitations are based on PCB Aroclors quantified using EPA Methods 625.1 or 608.3.
- In 2017, EPA adopted federal pretreatment program rules requiring dental offices to install dental amalgam separators. The rule is intended to reduce dental office discharge of mercury. The compliance date was July 14, 2020.

- As part of the 2021 Triennial Review of the Basin Plan, the Regional Water Board has prioritized designation of three new beneficial uses: Tribal Tradition and Culture (CUL), Tribal Subsistence Fishing (T-SUB) and Subsistence Fishing (SUB). Water bodies designated with these beneficial uses could also be assigned lower mercury objectives.
- BACWA supported risk reduction programming by two grantees to fulfill requirements of the 2017 Mercury & PCBs Watershed Permit. In August 2023, BACWA arranged for the grantees to present their work to Regional and State Water Board staff (materials linked at right).
- Through 2026, State Water Board and Regional Water Board staff are working on a Bioaccumulation Monitoring Program Realignment effort in the San Francisco Bay region. BACWA intends to support risk reduction activities related to this effort, which may include tribal outreach on fishing and fish consumption.
- In January 2022, monitoring requirements for mercury were reduced for most dischargers by a blanket NPDES Permit amendment (Order R2-2021-0028) (see link at right). Revised monitoring frequencies are also reflected in the reissued permit.

 Continue to coordinate with local community-based organizations and Water Boards staff to develop concepts for risk reduction activities that BACWA could support during the term of the 2022 permit.

Next Steps for BACWA

- Continue outreach to dentists BAPPG and BACWA's pretreatment committee. Per federal rules, all dental facilities were required to submit one-time compliance reports by October 2020.
- Track potential Basin Plan
   Amendments resulting from the
   Triennial Review project related
   to new beneficial use
   designations. The new
   designations are not expected to impact the Bay-wide mercury
   TMDL in the near term, but there could be localized or longer-term impacts.

2022 Mercury & PCBs Watershed Permit (Effective Feb. 1, 2023) https://www.waterboards.ca.go v/sanfranciscobay/board\_decis ions/adopted\_orders/2022/R2-2022-0038.pdf

Risk Reduction Materials (Updated August 2023) https://bacwa.org/mercurypcbrisk-reduction-materials/

NPDES Permit Amendment for Monitoring and Reporting https://www.waterboards.ca.go v/sanfranciscobay/board\_decis ions/adopted\_orders/2021/R2-2021-0028.pdf

Mercury and PCB Load Trends 2013- 2022 (Updated July 2023) https://www.waterboards.ca.go v/sanfranciscobay/board\_info/a gendas/2023/July/6\_ssr.pdf

# Challenges and Recent Updates

#### STATE WATER BOARD TOXICITY PROVISIONS

- The State Water Board has been working since before 2012 to establish Toxicity Provisions in the State Implementation Plan (SIP) that would introduce uniform Whole Effluent Toxicity requirements for the state.
- During individual permit reissuances since 2015, the Regional Water Board has been performing RPAs for chronic toxicity and giving chronic toxicity limits to agencies with Reasonable Potential.
- The State Water Board adopted the Statewide Toxicity Provisions in October 2021 as state policy for water quality control for all inland surface waters and estuaries. The Provisions establish:
  - Use of Test of Significant Toxicity (TST) as statistical method to determine toxicity, replacing EC25/IC25:
  - Numeric limits for chronic toxicity for POTWs >5 MGD and with a pretreatment program; smaller POTWs will receive effluent targets and only receive limits if Reasonable Potential is established:
  - Regional Water Board discretion on whether to require RPAs for acute toxicity:
  - For POTWs with Ceriodaphnia dubia as most sensitive species, numeric targets rather than limits until after completion of state-wide study on lab/ testing issues (Dec. 31, 2023).

- EPA approved the Statewide Toxicity
   Provisions on May 1, 2023, and they
   became effective on June 1, 2023.
   Individual NPDES permits reissued in
   the San Francisco Bay Region are
   implementing the Toxicity Provisions
   and requiring use of the TST for chronic
   toxicity testing. Reissued permits no
   longer require acute toxicity monitoring.
- EPA has not yet approved the Alternate Test Procedure for whole effluent toxicity testing. Until the Alternate Test Procedures are approved, the Regional Water Board has advised that dischargers should use the full fiveconcentration series for all tests, including routine monitoring and Species Sensitivity Screening Studies.
- Since 2016, agencies have had the option to skip sensitive species screening upon permit reissuance and pay the avoided funds to the RMP to be used for CECs studies. Under the Toxicity Provisions, agencies will be required by the provisions to do sensitive species screening once every 15 years.
- The State Water Board is collaborating with stakeholders on a special study to improve the quality of Ceriodaphnia dubia testing. The multi-laboratory study of toxicity testing has been completed, and a draft report with recommendations for laboratories is expected to be released in September 2023. The State Water Board will hold an informational hearing on these recommendations later in September 2023.

- Begin conducting toxicity testing using the Statewide Toxicity Provisions. As of June 2023, member agencies with individual NPDES permits reissued after August 2022 have automatically transitioned to the new toxicity testing requirements.
- Plan to conduct a species sensitivity screening to comply with the Toxicity Provisions, which require a study no more than 10 years old be used to determine a "Tier I" species for use in compliance monitoring.
- Share information on the special study of the Ceriodaphnia dubia test method as it is finalized in Fall 2023.

# SWRCB Toxicity Page: http://www.swrcb.ca.gov/water \_issues/programs/state\_imple mentation\_policy/tx\_ass\_cntrl. shtml

Toxicity Workshop Presentations from 2017 BACWA Workshop: https://bacwa.org/bacwatoxicity-workshop-september-18-2017/

Regional Water Board presentation on implementation of Statewide Toxicity Provisions from December 2020: <a href="https://bacwa.org/wp-content/uploads/2021/01/Slides-from-RWQCB-Regarding-R2-Tox-Language-in-NPDES-Permits-2020-12-08.pdf">https://bacwa.org/wp-content/uploads/2021/01/Slides-from-RWQCB-Regarding-R2-Tox-Language-in-NPDES-Permits-2020-12-08.pdf</a>

# Ceriodaphnia Quality Assurance Study

https://www.sccwrp.org/about/research-areas/additional-research-areas/ceriodaphnia-toxicity-testing-quality-assurance/

EPA Approval of Statewide Toxicity Provisions https://bacwa.org/wpcontent/uploads/2023/05/05.01 .2023-EPA-CWA-303c-Approval-of-California-Toxicity-Provisions.pdf

## **COMPOUNDS OF EMERGING CONCERN (CECS)**

- Pharmaceuticals and other trace compounds of emerging concern (CECs) are ubiquitous in wastewater at low concentrations and have unknown effects on aquatic organisms.
- The State Water Board has formed a Pretreatment and CECs Unit.
- Region 2's CEC strategy focuses on monitoring/tracking concentrations of constituents with high occurrence and high potential toxicity. Much of what the State Water Board is considering for its monitoring program is already being implemented in Region 2 through the RMP.
- The Regional Water Board has stated that voluntary and representative participation in RMP CECs studies is key to avoiding regulatory mandates for CECs monitoring. These studies are informational and not for compliance purposes. BACWA developed a White Paper on representative participation to support facility selection for these studies.
- Bay dischargers are continuing to provide supplemental funding for RMP CECs studies through the NPDES Permit Amendment adopted in December 2021 by the Regional Water Board.
- The State Water Board has recently increased its focus on CECs. In November 2022, a State Water Board Science Advisory Panel released a report identifying risk-based and occurrence-based monitoring strategies in aquatic ecosystems. Similar approaches are already in use in the Bay Area by the RMP.

- Continue to participate in the RMP Emerging Contaminants Workgroup.
- Participate in RMP studies by collecting wastewater samples at member facilities. For the coming year, the Emerging Contaminants Workgroup has proposed to fund a study of organophosphate esters, bisphenols, and other plastic additives in wastewater effluent. This study would be in addition to the ongoing OPC-microplastic study and BACWA-funded Regional PFAS Study.
- Update the 2020 White Paper created for use by the RMP or others in selecting representative POTWs for participation in CEC studies. The 2020 White Paper will be updated to note recently completed and ongoing studies of CECs in Bay Area wastewater.

RMP Emerging Contaminant Workgroup: <a href="http://www.sfei.org/rmp/ecwg#t">http://www.sfei.org/rmp/ecwg#t</a> ab-1-4

BACWA CECs White Paper:

https://bacwa.org/document/bacwa-cec-white-paper-updated-june-2020/

NPDES Permit Amendment for Monitoring and Reporting

https://www.waterboards.ca.go v/sanfranciscobay/board\_decis ions/adopted\_orders/2021/R2-2021-0028.pdf

State Water Board CECs webpage:

https://www.waterboards.ca.go v/water\_issues/programs/cec/i ndex.html

 As of September 2023, draft legislation (AB 1628) would require all new washing machines sold in California to come equipped with microfiber filtration,

which would reduce the load of microplastic fibers to POTWs.

## PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

- Per- and polyfluoroalkyl substances (PFAS) are a group of human-made substances that are very resistant to heat, water, and oil. PFAS have been used in surface coating and protectant formulations. Common PFAScontaining products are non-stick cookware, cardboard/paper food packaging, water-resistant clothing, carpets, and fire-fighting foam.
- Perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) are two types of PFAS no longer manufactured in the US; however, other types of PFAS are still produced and used in the US.
- All PFAS are persistent in the environment, can accumulate within the human body, and have demonstrated toxicity at relatively low concentrations.
- Potential regulatory efforts to address PFAS focus on drinking water in order to minimize human ingestion of these chemicals, although regulators have also expressed concern about uptake into food from biosolids.
- In July 2020, the SWRCB issued an investigative order for POTWs. At that time, BACWA obtained SWRCB approval to fund and conduct a Regional PFAS Study in lieu of the investigative order.
- In April 2021, the formation of an "EPA Council on PFAS" was announced.

- The EPA and State of California are developing drinking water standards for PFAS compounds.
  - DDW has developed drinking water notification and response levels for PFOA, PFOS, Perfluorobutane Sulfonic Acid (PFBS), and Perfluorohexane Sulfonic Acid (PFHxS).
  - EPA has released final health advisories for PFOA (0.004 ng/L) and PFOS (0.02 ng/L).
  - In February 2023, EPA proposed Maximum Contaminant Levels for PFOA and PFOS as individual contaminants, and PFHxS, PFNA, PFBS, and HFPO-DA (commonly referred to as GenX Chemicals) as a PFAS mixture. By design, these MCLs are very close to the current limits of quantification.
- EPA is conducting pretreatment standards rulemaking for three types of industrial users: Metal Finishing, Organic Chemicals, Plastics and Synthetic Fibers, and landfills.
- EPA is developing a new analytical method for PFAS in complex matrices like wastewater. Draft Method 1633 is expected to be finalized later in 2023.
- In August 2022, EPA proposed a rule designating PFOA and PFOS as hazardous substances under CERCLA (the Superfund law). BACWA submitted a comment letter on the proposal (link at right).
- In late 2022, EPA issued permitting guidance for pretreatment programs and NPDES permits. It recommends use of Draft Method 1633.

 BACWA's Regional PFAS Study is being conducted by SFEI in two phases:

Next Steps for BACWA

- In Phase 1 (2020), fourteen facilities collected samples of influent, effluent, reverse osmosis concentrate, and biosolids. BACWA prepared a Fact Sheet regarding Phase 1 results (see link at right).
- In Phase 2 (2022), six agencies conducted sampling of influent, effluent, and biosolids; residential sewersheds, commercial and industrial users; hauled organic waste used as digester feed; and groundwater.
- A final report is in preparation summarizing both Phase 1 and Phase 2 results, and a draft will be available in fall 2023. SFEI also plans to present the findings Regional Monitoring Program Annual Meeting in October 2023.
- Continue tracking developments at the federal, state and regional level, in particular to understand the impact of the CERCLA designation on biosolids reporting.
- Continue to support PFAS source control efforts by participating in monitoring studies, and by supporting regulatory and legislative efforts to limit the use of PFAS.

BACWA PFAS Documents: <a href="https://bacwa.org/pfas-links/">https://bacwa.org/pfas-links/</a>

SWRCB PFAS Resources: https://www.waterboards.ca.go v/pfas/

EPA PFAS Resources <a href="https://www.epa.gov/pfas">https://www.epa.gov/pfas</a>

EPA PFAS Strategic Roadmap https://www.epa.gov/pfas/pfas-

strategic-roadmap-epascommitments-action-2021-2024

EPA Proposed Drinking Water Regulations https://www.epa.gov/pfas/pfasstrategic-roadmap-epascommitments-action-2021-2024

2022 PFAS Legislation Outcomes for CA:

https://www.cwea.org/news/pfa s-legislation-we-have-seen-in-2022/

BACWA Comment Letter on CERCLA Designation:

https://bacwa.org/wpcontent/uploads/2022/11/BAC WA-PFAS-CERCLA-Ltr-2022-11-07.pdf

EPA NPDES Permitting
Guidance (Dec. 2022)
https://www.epa.gov/system/files/documents/202212/NPDES\_PFAS\_State%20Memo\_December\_2022.pdf

#### SANITARY SEWER SYSTEMS GENERAL ORDER

- In 2022, the State Water Board reissued the statewide Sanitary Sewer Systems General Order (SSS-WDR). The reissued order replaced the 2006 Order and the 2013 Monitoring and Reporting Program.
- The State Water Board's goals for the update were:
  - Updating the 2006 Order
- Clarifying compliance expectations and enhancing enforceability
- Addressing system resiliency, including climate change impacts
- Identifying valuable data and eliminating non-valuable reporting requirements

- The reissued order became effective on June 5, 2023.
- The reissued SSS-WDR contains numerous new and modified requirements, such as:
  - A prohibition on discharges to groundwater;
- Reduced spill reporting requirements for small spills (spills from laterals or <50 gallons);</li>
- New spill monitoring requirements such as photo documentation and faster water quality sampling;
- New requirements for preparation of Sewer System Management Plans (SSMPs), including a focus on system resiliency, prioritizing corrective actions, and coordinating with stormwater agencies;
- Modified annual reporting requirements;
- New mapping requirements; and
- Modified timelines for preparation of audits and SSMPs. The State Water Board has prepared an online tool to assist agencies in determining compliance dates (at right).
- Maintaining an updated SSMP continues to be a core requirement of the SSS-WDR. Beginning in May 2025, SSMP updates will be required every six years (instead of five) and must contain the 11 updated elements described in the reissued SSS-WDR.

- Work through the Collections System Committee to update a guidance document for Sewer System Management Plans (SSMPs). Previous guidance documents are now outdated due to the SSS-WDR reissuance. BACWA plans to hire a consultant to assist with this task
- Continue to coordinate with CASA and CWEA on training opportunities for members as they transition to enrollment under the new SSS-WDR.

State Water Board SSS-WDR page:

https://www.waterboards.ca.go v/water issues/programs/sso/

Reissued SSS-WDR (General Order 2022-0103-DWQ), Effective June 5, 2023

https://www.waterboards.ca.go v/board\_decisions/adopted\_or ders/water\_quality/2022/wqo 2022-0103-dwq.pdf

Materials from Clean Water Summit Partners Webinars on Reissued SSS-WDR <a href="https://casaweb.org/resources/speaker-presentations/">https://casaweb.org/resources/speaker-presentations/</a>

SSMP and Audit Due Dates Lookup Tool from State Water Board

https://www.waterboards.ca.go v/water\_issues/programs/sso/l ookup/ contributing to significantly higher ELAP staff on behalf of BACWA's Laboratory Committee as new guidance and training materials are developed for TNI implementation and methods updates.

• Communicate with ELAP staff on behalf of BACWA's Laboratory Committee as new guidance and training materials are developed for TNI implementation and methods updates.

• Communicate with ELAP staff on behalf of BACWA's Laboratory Committee as new guidance and training materials are developed for TNI implementation and methods updates.

later.

• The BACWA Lab Committee began

providing monthly TNI training sessions

sessions to continue through FY24 with

beginning in July 2021. BACWA has

provided funding for the TNI training

a focus on practical tips and Q&A.
ELAP is now implementing EPA's 2021
Method Update Rule. ELAP has advised labs to update any outdated

methods by February 2024.

- BACWA's Laboratory Committee to support members as they navigate laboratory accreditation under the new TNI standards.
- Publicize training opportunities offered by consultants, ELAP, and others.

ELAP Timeline Guidance Tool:

https://www.waterboards.ca.go v/drinking\_water/certlic/labs/do cs/2022/elap-scheduler-1-1.xlsx

ELAP Implementation of 2021 Method Update Rule <a href="https://www.waterboards.ca.gov/drinking\_water/certlic/labs/mur.html">https://www.waterboards.ca.gov/drinking\_water/certlic/labs/mur.html</a>

#### **BIOSOLIDS**

- Regulatory drivers are leading to the phase-out of biosolids used as alternative daily cover (ADC) or disposed in landfills. SB 1383, adopted in September 2016 requires organics diversion:
  - -50% by 2020 (relative to 2014) -75% by 2025 (relative to 2014) CalRecycle is the state agency responsible for implementation.
- Regulations implementing SB 1383
  went into effect in 2022.
  Jurisdictions can begin local
  enforcement January 1, 2024, and
  compliance is required by January
  1, 2025. Requirements include:
  - Diverted biosolids must be anaerobically digested and/or composted to qualify as landfill reduction.
- CalRecycle is accepting applications to qualify other specific treatment technologies as landfill reduction (per Article 2 of SB 1383).
- Local ordinances restricting land application are disallowed.
- While the regulations implementing SB 1383 do not explicitly forbid biosolids disposal/reuse in landfills, it is assumed that since biosolids are a relatively "clean" waste stream that can be easily diverted, landfills will stop accepting biosolids.
- The Bay Area Biosolids Coalition (BABC) was formed to find sustainable, cost-effective, allweather options for biosolids management. BABC is a BACWA Project of Special Benefit.

- BACWA's 2021 Biosolids Trends Survey Report compiles member agency activities in 2018-2020, as well as survey responses regarding SB 1383 implementation.
- Jurisdictions that divert organic waste must also procure the end products of diversion, such as biogas, biomethane, and compost (but not biosolids).
   Procurement rules are being phased in over three years (2023 to 2025) and there are interim rules regarding procurement of biogas from POTWs.
- CalRecycle is conducting outreach to several counties with restrictive ordinances on land application. As a result, these counties may begin to accept biosolids for land application.
- CalRecycle is reviewing an application to qualify an alternative technology as landfill reduction per Article 2. CASA and technology providers are seeking additional clarification from CalRecycle on technologies that already comply with SB1383 and need not apply under Article 2.
- AB 1857, signed in 2022, removes a diversion credit for municipal solid waste incinerators. CalRecycle will soon prepare draft regulations implementing the law, which could apply to biosolids treated via pyrolysis.
- The Biosolids in the Baylands white paper identifies data gaps at land application sites in the Baylands.
   Studies funded by BACWA and BABC (e.g., PFAS) and other current studies will be considered to help fill remaining data gaps before identifying new monitoring requirements at these sites.

Share information about plans for biosolids treatment and use at BABC's November 13<sup>th</sup> meeting. Several agencies in the greater Bay Area are planning new biosolids treatment approaches (such as pyrolysis) in response to SB 1383 and other regulatory drivers. This meeting is open to all BACWA members.

Next Steps for BACWA

- BACWA's next Biosolids Trends Survey Report will be completed in 2024 and will cover 2021-2023.
- Engage through CASA and BABC to follow development of regulations implementing AB 1857, with the goal of avoiding limits on POTWs using pyrolysis for organic waste management.
- Continue to engage with the Regional Water Board regarding supplemental monitoring requirements for biosolids land application sites in the Baylands.
- Actively work through CASA with California Air Resource Board, CalRecycle, State Water Board, and California Department of Food and Agriculture to develop sustainable long-term options for biosolids beneficial use.
- Meet with BAAQMD regularly in 2023 to discuss alignment of state and local regulations.

# BACWA 2021 Biosolids Trends Survey Report:

https://bacwa.org/wpcontent/uploads/2021/12/BAC WA-2021-Biosolids-Trends-Survey-Report.pdf

#### BABC website:

http://www.bayareabiosolids.com/

# CASA White Paper on SB 1383 Implementation:

https://bacwa.org/document/summary-of-sb-1383-and-its-implementation-casa-2020/

# CalRecycle - Short-Lived Climate Pollutant Reduction Strategy

https://www.calrecycle.ca.gov/organics/slcp

# CalRecycle Procurement FAQ (Updated by AB 1985)

https://calrecycle.ca.gov/organics/slcp/faq/recycledproducts/

# SB1383 Article 2 Determination

https://calrecycle.ca.gov/organics/s/slcp/recyclingfacilities/article2/

# Biosolids in the Baylands White Paper

https://bacwa.org/wpcontent/uploads/2022/07/Bioso lids-in-the-Baylands-White-Paper-March-2022.pdf

#### **CLIMATE CHANGE MITIGATION**

- CARB's Climate Change Scoping Plan Update lays out the approach for the State to meet its greenhouse gas (GHG) emissions reduction targets through 2030. The latest Scoping Plan was updated in 2022 targeting carbon neutrality by 2045, including policies addressing:
  - Short-lived climate pollutants
  - Carbon sequestration on Natural and Working Lands
- Largest emitters (transportation, electricity, and industrial sectors)
- SB 1383 (Short-Lived Climate Pollutant Reduction) calls for:
  - o 40% methane reduction by 2030
  - 75% diversion of organic waste from landfills by January 1, 2025
  - Policy / regulatory development encouraging production/use of biogas
- BAAQMD developed a Clean Air Plan requiring GHG emissions supporting CARB's 2050 target (80% below 1990 levels).
- BAAQMD proposed the development of Regulation 13 (climate pollutants) targeting methane and nitrous oxide reductions related to organics diversion and management. After a pause of several years, BAAQMD may revisit Regulation 13 later in 2023.
- CARB states POTWs are part of the solution for reducing fugitive methane and encourages diversion of organics to POTWs to use available digester capacity and produce biogas.

- CARB is pursuing rapid fleet conversion to zero-emission vehicles (ZEVs), including medium and heavy-duty vehicles, through the Advanced Clean Fleet rule. The Advanced Clean Fleet rule allows organization to opt into one of two programs:
  - Public Fleets: With exceptions, requiring 50% of vehicles added to be ZEV by 2024, and 100% by 2027.
  - High Priority Fleet (Group 3): With exceptions, requiring 10% of vehicles added to be ZEV by 2030 and 100% by 2042.
- Complete conversion will be difficult for heavy-duty specialty trucks, and will remove a potential market for biogas.
   CASA is engaging to request continued allowance of biogas as a sustainable transportation fuel.
- In addition to pushing for ZEVs, CARB is proposing changes to the Low Carbon Fuel Standard that reflect increasing emphasis on hydrogen as a transportation fuel. Conversion of biogas into hydrogen is currently in research & development stage.
- In 2022, the CPUC mandated that CA's four largest gas utilities (including PG&E) procure biomethane. PG&E recently completed a biomethane procurement solicitation and will continue to do so at least annually.
- In June 2023, EPA finalized updates to its Renewable Fuel Standard Set Rule allowing apportionment of renewable identification numbers (RINs) or "credits" for food waste-based (D5) and sludge-based (D3) biogas.

- Track implementation of the Advanced Clean Fleet Regulations, which CARB is discussing with a newly formed Truck Regulation Advisory Committee.
- Follow the fate of proposed legislation (AB 1594) that could exempt some public utility specialty vehicles from the Advanced Clean Fleet Regulations.
- Closely follow rule development of Proposed Regulation 13 (climate pollutants), which BAAQMD plans to revisit later in 2023.
- Support CASA's engagement with CARB to preserve multiple uses for biogas, including existing pathways that allow biogas to be used as vehicle fuel.
- Look for ways to inform BAAQMD on opportunities and challenges for climate change mitigation by Bay Area POTWs, including education about anaerobic digesters and POTW operations.
- Work with PG&E and BAAQMD to explore options for POTWs to inject biogas into PG&E pipelines.

Climate Change Scoping Plan, including 2022 Update:

https://ww2.arb.ca.gov/ourwork/programs/ab-32-climatechange-scoping-plan

CARB Low Carbon Fuel Standard:

https://ww2.arb.ca.gov/our-work/programs/low-carbon-fuel-standard

CARB Advanced Clean Fleet Rule:

https://ww2.arb.ca.gov/ourwork/programs/advancedclean-fleets

SB 1383:

https://www.calrecycle.ca.gov/organics/slcp

BAAQMD Regulation 13 http://www.baaqmd.gov/rules-and-

compliance/rules/regulation-13-climate-pollutants

EPA Renewable Fuel Standards

https://www.epa.gov/renewable-fuel-standard-program/final-renewable-fuels-standards-rule-2023-2024-and-2025

PG&E Procurement
https://www.pge.com/en\_US/fo
r-our-businesspartners/energy-supply/coregas-supply/rngprocurement.page

### **CLIMATE CHANGE ADAPTATION**

- Climate change and water resilience are a strategic priority of both the State Water Board and Regional Water Board.
- In April 2019, Governor Newsom signed Executive Order N-10-19 directing State Agencies to recommend a suite of priorities and actions to build a climate-resilient water system and ensure healthy waterways through the 21st century.
- Bay Area coordination occurs through Bay Adapt, the Bay Area Climate Adaptation Network (BayCAN), and other venues.
   BACWA has signed a letter of support for the Bay Adapt Joint Platform.
- In April 2022, the State released a Climate Adaptation Strategy, including an updated climate change assessment for the Bay Area region.
- The California Coastal Commission's November 2021 Sea Level Rise Planning Guidance recommends that agencies "understand and plan" for 2.7 feet of sea level rise (SLR) by 2050.
- The Regional Water Board is modifying the Basin Plan to address climate change and wetland policy. The changes will occur through multiple Basin Plan amendments.

- In 2022, the Regional Water Board adopted a Climate Change Basin Plan amendment addressing dredge and fill procedures near the region's shorelines, especially for climate adaptation projects.
- Separately from the Basin Plan amendment, the NDPES division has released information regarding permitting of nature-based solutions.
- Shallow groundwater response to SLR is a concern in low-lying Bay Area communities. Information about current and future depth-to-groundwater maps is summarized in a January 2023 report now available from Pathways Climate Institute and SFEI.
- The Bay Conservation and Development Commission (BCDC) is developing regional SLR adaptation planning guidelines for the Bay Area as part of the Regional Shoreline Adaptation Plan. The project kicked off in 2023 and is expected to be complete by September 2024. The guidelines will inform sub-regional implementation plans and are not a regulation.
- The Ocean Protection Council (OPC) is revising its 2018 SLR guidance to reflect the latest projections for SLR. Previous projections for extreme SLR (i.e., H++ scenario) are now less plausible, but there is increased certainty of SLR to 2050. Updates to the Coastal Commission's "Critical Infrastructure at Risk" SLR planning guidance are expected to follow.

- Engage with BCDC during the agency's development of Regional Shoreline Adaptation Plan guidance, which will likely impact most BACWA member agencies. BACWA is participating in an advisory group for the Regional Shoreline Adaptation Plan.
- Provide a forum for members to discuss emerging information about climate risks, such as SLR projections and changes in precipitation.
- Prepare for engagement with the Regional Water Board on expectations for SLR planning.
- Continue to work with Regional Water Board and other resource agencies to look for regulatory solutions to encourage wetlands projects for shoreline resiliency.

California Coastal
Commission's Critical
Infrastructure at Risk
https://documents.coastal.ca.g
ov/assets/slr/SLR%20Guidanc
e\_Critical%20Infrastructure\_12
.6.2021.pdf

California Climate Adaptation Strategy https://climateresilience.ca.gov

BayCAN Funding Tracker https://www.baycanadapt.org/

Bay Adapt Joint Platform <a href="https://www.bayadapt.org/">https://www.bayadapt.org/</a>

NPDES Permitting for Nature-Based Solutions https://bacwa.org/wpcontent/uploads/2022/08/NPD ES-Permitting-for-Nature-Based-Solutions-5.pdf

2023 Report on Shallow Groundwater Response https://www.sfei.org/projects/s hallow-groundwater-responsesea-level-rise

OPC Plans to Update Sea-Level Rise Guidance https://opc.ca.gov/wpcontent/uploads/2023/07/SLR-Task-Force-Process-FAQ-508.pdf

#### **TOXIC AIR CONTAMINANTS**

- Regulation 11, Rule 18 (Rule 11-18), adopted in 2017, is BAAQMD's local effort to protect public health from toxic air pollution from existing facilities, including POTWs.
- Per the Rule, BAAQMD will conduct site-specific Health Risk Screening Analyses (HRSAs) and determine each facility's prioritization score (PS). BAAQMD will conduct Health Risk Assessments (HRAs) for all facilities with a cancer PS>10 or non-cancer PS>1.0. After verifying the model inputs, if the facility still has PS above that threshold, that facility would need to develop and implement a Risk Reduction Plan that may include employing Best Available Retrofit Control Technology for Toxics (TBARCT).
- AB 617 (Community Air Protection Program) – requires CARB to harmonize community air monitoring, reporting, & local emissions reduction programs for air toxics and GHGs). POTWs within communities already impacted by air pollution may have to accelerate implementation of risk reduction measures.
- AB 2588 (Air Toxics "Hot Spots" Program) - Establishes a statewide program for the inventory of air toxics emissions from individual facilities, as well as requirements for risk assessment and public notification of potential health risks. 2020 updates expanded compound list from >500 to >1,700.

- BACWA developed a White Paper on BAAQMD Rule 11-18 to describe its potential impacts on the POTW community. The AIR Committee gathered data on proximity factors from each facility and submitted to BAAQMD for updating prioritization scores. This information will be used in HRA development for POTWs.
- In the Final Statement of Reasons for rulemaking on AB 617 and AB 2588, CARB provided the wastewater sector time to develop a short-list of relevant compounds and perform a pooled emissions estimating effort to update outdated default emission factors (through 2028).
- In December 2021, BAAQMD amended Rule 2-5 to reduce allowable levels of toxic air contaminants in new source permitting. In March 2022, BAAQMD and BACWA convened a working group to address concerns related to toxic air contaminants and rule-making, which is meeting quarterly. BACWA is coordinating with BAAQMD about implementation of the two-step process and its timing relative to BAAQMD Rule 11-18 and 2-5.
- In July 2023, the EPA announced a proposal to revise its Air Emissions Reporting Requirements (AERR). The proposed revisions are under review to determine how the proposed changes would impact facilities in California.

 Continue participating in the BAAQMD workgroup to discuss toxic air contaminants, rule development, and related air quality regulatory issues.

Next Steps for BACWA

- · Report "business as usual" for air toxics through 2028 (through year 2027 data). If BAAQMD requests additional monitoring of air toxics, member agencies should refer to CASA's one-page handout on this topic. CARB is preparing a message to Air Districts confirming POTWs can delay reporting new compounds until the two-step process is complete. The wastewater sector has until 2028 to perform a statewide "two-step process" to determine a shortlist of compounds relevant to the wastewater sector to report.
- Continue to Participate in CASA Subgroup meetings to plan the "two-step process" study.
- For budget planning purposes, BACWA members with permitted capacity ≥ 5 MGD should expect the study to cost approximately \$2,300 per MGD of permitted average dry weather flow. Study costs will be refined and spread over four fiscal years. BACWA will assist CASA in collecting funds for this effort from participants who are BACWA's members. BACWA members should anticipate budgeting for this process beginning in FY25.

BAAQMD Rule 11-18 page: https://www.baaqmd.gov/rules-and-compliance/rules/regulation-

compliance/rules/regulation-11-rule-18-reduction-of-riskfrom-air-toxic-emissions-atexisting-facilities

## **BAAQMD Rule 2-5**

https://www.baaqmd.gov/rulesand-compliance/rules/reg-2permits?rule\_version=2021%2 0Amendments

CARB page on AB 617 and AB 2588:

https://ww2.arb.ca.gov/ourwork/programs/criteria-andtoxics-reporting Final Statement of Reasons https://ww3.arb.ca.gov/board/1 5day/ctr/fsor.pdf

CASA One-Page Handout on Air Toxics Reporting https://bacwa.org/wpcontent/uploads/2022/03/CTR-EICG\_CASAOnePageIssue-Approach\_March2022.pdf

Timing of Rule 11-18 vs. Process for AB 617 https://bacwa.org/document/ba aqmd-rule-11-18-vs-carb-twostep-process-for-ab-617-feb-2023/

EPA Air Emissions
Reporting Requirements
<a href="https://www.epa.gov/air-emissions-inventories/air-emissions-reporting-requirements-aerr">https://www.epa.gov/air-emissions-inventories/air-emissions-reporting-requirements-aerr</a>

## **RECYCLED WATER**

- Approximately 10 percent of the municipal wastewater of Region 2 POTWs is currently recycled. Expansion of recycled water projects is a goal of many BACWA members, but implementation is slowed by high costs, regulatory uncertainty, and administrative requirements.
- As of 2018, the State Water Board has adopted uniform water recycling criteria for two types of Indirect Potable Reuse: surface water augmentation and groundwater augmentation.
- As of 2020, virtually all recycled water in Region 2 was produced at centralized facilities using municipal wastewater, and was treated to meet standards for non-potable reuse.
- The State Water Board is developing regulations for Direct Potable Reuse. Regulations for raw water augmentation must be adopted by December 31, 2023. The State Water Board is pursuing a regulatory path that also includes treated water augmentation. The State Water Board issued draft regulations for Direct Potable Reuse in July 2023.

- Beginning in 2020, all agencies have been required to report monthly wastewater and recycled water volumes into the State's Geotracker database. The 2023 survey included new questions about future plans for increased recycled water production.
- The State Water Board is currently developing standards for onsite treatment and reuse of non-potable water in multi-family, mixed use, and commercial buildings. Draft regulatory concepts for onsite non-potable reuse were released in August 2022. The State Water Board is expected to begin rulemaking for onsite non-potable recycled water by late spring and complete the regulations by the end of 2023.
- In June 2023, BACWA completed a Regional Evaluation of Potential Nutrient Discharge Reduction by Water Recycling, as required by the 2<sup>nd</sup> Nutrient Watershed Permit.
- The State Water Board has launched a "Strike Team" to assess how California will meet new recycled water goals listed in California's Water Supply Strategy: 800,000 acre-feet per year of recycled water by 2030 and 1.8 million acre-feet per year by 2040. The Strike Team will also document challenges to meeting these goals, such as funding.
- Regional Water Board staff are preparing a draft Basin Plan Amendment to address NPDES permitting needs of recycled water projects with reverse osmosis concentrate.

 Review draft regulations for Direct Potable Reuse. Work through Recycled Water committee to share information about the proposed regulations and exchange information about projects under consideration by member agencies.

Next Steps for BACWA

- Continue to synthesize information about proposed recycled water projects that will impact nutrient loading to San Francisco Bay. This information will inform negotiations on the 3<sup>rd</sup> Nutrient Watershed Permit to be reissued in 2024.
- Host a workshop with Bay Area water agencies to discuss opportunities and challenges for interagency collaboration on water reuse.
- Track California legislation with potential impacts on recycled water funding, mandates, or regulations.

Water Boards Recycled
Water Policy and
Regulations
<a href="https://www.waterboards.ca.go">https://www.waterboards.ca.go</a>
<a href="https://www.waterboards.ca.go">y/water</a> issues/programs/recyc
led water/

Direct Potable Reuse framework documents https://www.waterboards.ca.go v/drinking\_water/certlic/drinkin gwater/direct\_potable\_reuse.ht ml

Volumetric Annual
Reporting Data:
https://www.waterboards.ca.go
v/water\_issues/programs/recyc
led\_water/volumetric\_annual\_r
eporting.html

Special Studies of Recycled Water and Nature-Based Systems:

https://bacwa.org/documentcategory/2nd-watershedpermit-studies/

California's Water Supply Strategy (August 2022) https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/Water-Resilience/CA-Water-Supply-Strategy.pdf

# Previously covered issues with no updates can be found in previous **BACWA** issues summaries.

# **ACRONYMS**

ADC	Alternate Daily Cover	PCB	Polychlorinated Biphenyl
BAAQMD	Bay Area Air Quality Management District	PFAS	Per- and Polyfluoroalkyl Substances
BACT	Best Available Control Technology	PFBS	Perfluorobutane Sulfonic Acid
BCDC	Bay Conservation and Development Commission	PFHxS	Perfluorohexane Sulfonic Acid
BTU/SCF	British thermal units per standard cubic foot	PFOA	Perfluorooctanoic Acid
CalDPR	California Department of Pesticide Registration	PFOS	Perfluorooctane Sulfonic Acid
CARB	California Air Resources Board	POTW	Publicly Owned Treatment Works
CASA	California Association of Sanitation Agencies	PS	Prioritization Score
CAP	Criteria Air Pollutant	RMP	Regional Monitoring Program
CEC	Compound of Emerging Concern	RPA	Reasonable Potential Analysis
CIWQS	California Integrated Water Quality System	SCAP	Southern California Alliance of POTWs
CVCWA	Central Valley Clean Water Agencies	SF Bay	San Francisco Bay
CWEA	California Water Environment Association	SFEI	San Francisco Estuary Institute
DDW	Division of Drinking Water, State Water Resources Control Board	SLR	Sea Level Rise
EC25/IC25	25% Effect Concentration/25% Inhibition Concentration	SSMP	Sewer System Management Plan
ELAP	Environmental Laboratory Accreditation Program	TMDL	Total Maximum Daily Load
ELTAC	Environmental Laboratory Technical Advisory Committee	TIN	Total Inorganic Nitrogen
EPA	United States Environmental Protection Agency	TNI	The NELAC Institute
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act	TST	Test of Significant Toxicity
FY	Fiscal Year	WQO	Water Quality Objective
GHG	Greenhouse Gas	ZEV	Zero-Emission Vehicle

HRSA Health Risk Screening Analyses

HRA Health Risk Assessment

MCL Minimum Contaminant Level (Drinking Water)

MGD Million Gallons per Day

NACWA National Association of Clean Water Agencies

NELAC National Environmental Laboratory Accreditation Conference

NMS Nutrient Management Strategy

OEHHA Office of Environmental Health Hazard Assessment

OPC Ocean Protection Council