

**EXECUTIVE OFFICER'S REPORT
10 AUGUST 2023**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL
BOARD
CENTRAL VALLEY REGION**

PATRICK PULUPA, EXECUTIVE OFFICER



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STAFF RECOGNITION

The Central Valley Water Board believes in recognizing superior employee performance via the Employee Recognition Program. This Program consists of monthly Employee Recognition Awards (ERAs) and quarterly Superior Accomplish Awards (SAAs). ERAs are presented at monthly All Staff Meetings with a certificate and announcement by the Executive Officer (EO). SAAs are presented at Board Meetings and include a certificate, monetary award, and announcement by the EO. [Employee Recognition Awards](https://www.waterboards.ca.gov/centralvalley/press_room/employee_recognition/) can be viewed on the Board's website.

(https://www.waterboards.ca.gov/centralvalley/press_room/employee_recognition/)

PROGRAM REPORTS

BASIN PLANNING

TOTAL MAXIMUM DAILY LOAD (TMDL) PROGRAMS

PESTICIDE TMDLS

On 8 June 2017, the Board adopted a Basin Plan Amendment (BPA) which established a Control Program for Pyrethroid Pesticide Discharges throughout the Sacramento and San Joaquin River Basins, as well as Total Maximum Daily Loads (TMDLs) for pyrethroid pesticides in certain impaired water bodies. The State Water Board approved the BPA on 10 July 2018. The Office of Administrative Law (OAL) approved the BPA on 19 February 2019. On 22 April 2019, USEPA approved the BPA. The BPA, including the TMDL, are fully approved and effective.

Board staff continue to work with MS4s, wastewater, and agricultural dischargers under the program to meet the baseline monitoring and management plan requirements in the Control Program for Pyrethroid Pesticide Discharges.

On 13 July 2020, Board staff sent orders under Water Code sections 13267 and 13383 (Orders) to MS4 permittees in the Sacramento and San Joaquin River Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these Orders, Phase I MS4 permittees were required to submit draft Baseline Monitoring Plans by 1 December 2020. Phase II MS4 permittees under the Order had the option to either 1) submit Baseline Monitoring Plans (Plans) by 28 February 2021, or 2) acknowledge the existing data are assumed to be representative of their discharge, forego baseline monitoring, and prepare a Pyrethroid Management Plan (PMP) due to the Board by 19 August 2021.

All but one (City of Modesto) of the five Phase I MS4 permittees have complied with the Orders and submitted Plans by the 1 December 2020 deadline. Four of the five Phase I MS4 permittees reported exceedances of the prohibition triggers. Two of these permittees are already implementing their required PMP, and Board staff have solicited

revisions to the PMPs submitted by the other two permittees. These revised PMPs are expected in late 2023.

Six Phase II MS4 permittees selected the baseline monitoring option and received subsequent approval of their Baseline Monitoring Plans. Three of the Phase II MS4 permittees (Cities of Davis, Los Banos, and Woodland) reported exceedances during baseline monitoring, and in accordance with the Order, submitted PMPs in September and October 2022 and all were approved. Baseline Monitoring Reports from the Cities of Redding and Chico were approved in late 2022, fulfilling the responsibilities of these cities under the Order.

Board staff received notices of intent to submit a PMP from 48 Phase II MS4 permittees. Of those 48 Phase II MS4 permittees, 44 submitted PMPs and 38 have been approved. Board staff continue to work with the Phase II MS4 permittees (6) whose PMPs require revisions and the Phase II MS4 permittees (2) that did not submit PMPs.

In June 2023, Board staff released the Draft Final Report for Agreement 18–027–150, a contract with the University of California, Davis (Contractor) for the determination of pyrethroid partition coefficients of sediment samples collected from watersheds throughout California. The public comment period for the Draft Final Report closed on 25 July 2023, and staff are now compiling public feedback for the Contractor’s consideration in the development of the Final Report.

In July 2023, Board staff released the Draft Pyrethroid Research Plan for public comment. The Draft Pyrethroid Research Plan, which is a deliverable of the Control Program for Pyrethroid Pesticide Discharges, summarizes the current state of science, and identifies research and special studies that, once completed, may inform future iterations of pyrethroid pesticide discharge regulations (e.g., potential objectives, program refinement). The Draft Pyrethroid Research Plan can be obtained from the Central Valley Water Board’s [website](#) at:

(http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.shtml)

For more information, please see the public notice available on the Board’s [Public Notices website](#) that can be viewed here:

(https://www.waterboards.ca.gov/centralvalley/public_notices/#TMDLs)

Board staff hosted a public meeting on 1 August 2023 to provide participants with an opportunity to discuss the Board’s Draft Pyrethroid Research Plan. Board staff are available for additional meetings as requested by stakeholders, Tribes, or other interested parties. Board staff may revise the Draft Pyrethroid Research Plan to address feedback obtained through meetings and written comments provided during the public comment period. Once revisions are complete, Board staff will present the Pyrethroid Research Plan to the Board for adoption. The date for the public hearing for Board adoption will be determined by the amount of feedback obtained and will be publicly

noticed.

DELTA METHYLMERCURY CONTROL PROGRAM/TMDL

The Delta Mercury Control Program and associated Methylmercury TMDL (DMCP) was adopted as a phased TMDL by the Regional Board on 22 April 2010. Final approval by the U.S. EPA was received on 20 October 2011. The TMDL was adopted as a Basin Plan Amendment and includes a control program to reduce methylmercury and inorganic mercury in the Delta.

The first phase of the DMCP requires entities responsible for discharging methylmercury (MeHg) in the Delta to conduct source control studies and subsequently develop and evaluate MeHg management methods. The DMCP requires the studies to be reviewed by an independent scientific peer review panel (Review Panel), which was coordinated through the Delta Stewardship Council's Delta Science Program. The first Review Panel evaluated seven control study reports investigating MeHg management in municipal wastewater and urban stormwater runoff discharges and a second Review Panel reviewed the open water modeling and tidal wetlands reports. Board staff will use information from these studies and recommendations from both Panels to consider revisions to the DMCP. ADA-compliant versions of the [Review Panel's Final Reports](#) can be viewed here:

(<https://deltacouncil.ca.gov/delta-science-program/independent-science-review-of-the-delta-mercury-control-program>)

Phase 2 began on 20 October 2022, and requires dischargers to implement MeHg control programs to meet allocations, continue total mercury reduction programs, and conduct compliance monitoring. Board staff are continuing to review and incorporate more recent data and methodologies, including information provided in the control and characterization studies, to determine if there are any needed modifications to the DMCP. Board Staff expects to initiate the Scientific Peer Review process (including public release) in fall 2023.

More information on the DMCP, including the CEQA scoping presentation slides and recording, can be found on the [DMCP website](#) here:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/)

DISSOLVED OXYGEN TMDL

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the Stockton Deepwater Ship Channel/San Joaquin River (SDWSC/SJR) Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. The water quality objective is 5 mg/L December through August and 6 mg/L September through November in the channel.

From 22 May through 5 July 2023, one excursion was detected exceeding the water quality objective. The dissolved oxygen level dropped below 5 mg/L to 4.47 mg/L on 5 July 2023. In September 2022, the Port of Stockton initiated the aerators, only to experience technical issues. Currently, both pumps are being repaired. There is no estimated timeframe for the pumps coming back on-line.

[Real-time dissolved oxygen data](#) for the DWSC can be found at:

(<https://cdec.water.ca.gov/dynamicapp/QueryF?s=SDO>)

More information on the [SDWSC/SJR Dissolved Oxygen TMDL Control Program](#) can be viewed here:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.shtml).

CLEAR LAKE NUTRIENT CONTROL PROGRAM/TMDL/BLUE RIBBON COMMITTEE

Board staff continued implementation of the Nutrient TMDL and considered future revisions to the Control Program and TMDL based on information currently being gathered through studies and projects in the watershed, including the Board's Environmental Driver's study, the UC Davis study, Tribal monitoring data, and other stakeholder efforts.

The County of Lake and the Cities of Clearlake and Lakeport (collectively, Permittees) respectively submitted requests to amend the Time Schedule Order (TSO) R5-2019-1005-001 to extend the compliance deadline from 30 September 2024 to 30 September 2028. The Permittees stated that the additional time would allow them to adequately fund (including obtaining awarded funding), implement, and document the sediment phosphorus reduction projects in their TSO Task 4 Work Plans.

In response to the request, Board staff have drafted an amended TSO and accompanying resolution, which will be publicly noticed and made available for public comment. Board staff may revise the amended TSO to address feedback obtained during the comment period. Once revisions are complete, Board staff will present the amended TSO to the Board for adoption. The date for the public hearing will be determined by the amount of feedback obtained and will be publicly noticed. For more information, contact Mason Gatti at (916) 464-4634 or at mason.gatti@waterboards.ca.gov.

Board staff participated in the Blue Ribbon Committee meetings which have focused on funding proposals for projects in Clear Lake. The next Blue Ribbon Committee Meeting is scheduled for 14 September 2023. Several Board staff also attended meetings convened by the State Water Board in Clear Lake to discuss racial equity issues and tribal concerns (see "Outreach" section, below). These discussions will be reported to the Committee at their next meeting.

More information can be found on the [Clear Lake Nutrient TMDL website](#) at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/)

More information regarding the Blue Ribbon Committee can be found on the Natural Resources Agency's [Blue Ribbon Committee Website](#).

(<https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake>).

LOWER SAN JOAQUIN RIVER SALT AND BORON TMDL

On 17 May 2023, the United States Bureau of Reclamation (USBR) submitted their draft 2024 Management Agency Agreement Annual Workplan. The Annual Workplan describes activities to be conducted by USBR in fiscal year 2024 under the Management Agency Agreement to meet obligations assigned to it by the Salt and Boron TMDL for the lower San Joaquin River. The Workplan has been reviewed by staff and has been distributed for public review and comment. The comment period for the Workplan ends on 31 July 2023.

The Workplan is available on the [USBR website](#) for the Program to Meet Standards and here:

(<https://www.usbr.gov/mp/ptms/docs/maa-2024-annual-work-plan-draft.pdf>)

CV-SALTS/SALT CONTROL PROGRAM

SALT PRIORITIZATION AND OPTIMIZATION (P&O) STUDY

The first of three phases of the Salt Control Program, the P&O Study, is a ten- to fifteen-year project to characterize the status of salinity in the Central Valley and evaluate salinity management solutions to inform Phases 2 and 3 of the Salt Control Program.

Monthly meetings are conducted with an Executive Committee of interested parties, and two subcommittees meet regularly discuss modeling and regulatory/policy topics and inform the Executive Committee.

The suite of modeling and analytical tools has been selected for this project and multiple models are currently being integrated, calibrated, and validated. These suites of models are being applied to each of the three Central Valley hydrologic basins (Sacramento River watershed, San Joaquin River watershed, and the Tulare Lake watershed).

The initial "Baseline Run" of the models (characterizing the current salinity conditions of the Central Valley in each basin) is expected for each basin in September 2023.

There have been many CV-SALTS meetings that Board management and staff have attended to discuss different aspects of both the salt and nitrate control programs. Below is a list of project meetings.

On 22 May 2023, Adam Laputz, Angela Llaban, Jennie Fuller, and Hannah Dailey attended a meeting with SGMA (Sustainable Groundwater Management Act) Program Staff regarding CV-SALTS coordination with the SGMA program.

On 16 June 2023, Patrick Pulupa, Adam Laputz, Angela Llaban, Jennie Fuller, True Khang, Cindy Au-Yeung, and Hannah Dailey attended a meeting with SGMA staff to discuss Salt and Nitrate Control Program implementation and SGMA implementation.

On 19 June 2023, Hannah Dailey, Jennie Fuller, and Angela Llaban attended a CV-SALTS P&O Study Regulatory and Policy Issues Small Group Meeting. Topics included salinity target guiding principles and policy choices, antidegradation, and salinity target development approaches.

On 19 June 2023, Hannah Dailey and Jennie Fuller attended a CV-SALTS P&O Study Modeling Small Group Meeting. Topics included the status of CV-SWAT model augmentation and calibration, the linkage to the NPSAT model, calibration approach and results for the San Joaquin Hydrologic Basin, and the anticipated future validation process.

On 20 June 2023, Patrick Pulupa, Adam Laputz, Angela Llaban, Jennie Fuller, Cindy Au-Yeung, and Hannah Dailey attended the State Board Meeting to deliver the Annual CV-SALTS information item to the State Water Board as required by the Salt and Nitrate Control Programs. Topics included the Central Valley Water Board general update for the implementation of the Salt and Nitrate Control Programs, updates from the Valley Water Collaborative (Turlock and Modesto basins) and Tule Management Zones, an Environmental Justice Advocacy Panel, and an update from the consultants working on the modeling efforts for the P&O Study.

On 29 June 2023, Patrick Pulupa, Angela Llaban, Jennie Fuller, True Khang, Cindy Au-Yeung, Hannah Dailey, and Bethany Soto attended the CV-SALTS Executive Committee Meeting regarding implementation of the Salt and Nitrate Control Programs. Nitrate Control Program topics included a status update on the Management Zones' general implementation and outreach progress, Implementation Plan status updates, Central Valley Water Board enforcement activities, and SAFER funding of co-contaminants in Management Zones. Salt Control Program/P&O Study topics included an update on the modeling and baseline characterization efforts, a report from the Regulatory and Policy small group regarding a draft Salinity Planning Principles document, an update on a proposed change to the integrated scope of services, and an update on the Data Management System development.

EVALUATION OF MUNICIPAL AND DOMESTIC SUPPLY (MUN) BENEFICIAL USE IN AG DOMINATED SURFACE WATER BODIES

On 11 August 2017, the Board adopted a Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies. A State Board Meeting to consider approval of the Basin Plan Amendment was held on 10 July 2018. State Board members deferred their decision on the amendments to a future date. Board staff continue to work with State Board staff to address questions and concerns that were raised during the 10 July 2018 Board Meeting. More information on the Municipal and Domestic Supply (MUN) Beneficial Use Project can be found at:

More information on the [Municipal and Domestic Supply \(MUN\) Beneficial Use Project](#) can be found at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/)

OIL FIELD SALINITY BASIN PLANNING ACTIONS

Groundwater within the Tulare Lake Basin is designated to support both Municipal and Domestic (MUN) and Agricultural Supply (AGR) beneficial uses, unless specifically de-designated by a Basin Plan Amendment (BPA). The need for evaluating appropriate beneficial uses, specifically for MUN and AGR, has been recognized by stakeholders and the Central Valley Water Board through the 2011, 2013, 2018 and 2021 Triennial Reviews. In addition, the Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS) initiative also identified the need to evaluate the level of protection of MUN and AGR beneficial uses as an essential activity of the CV-SALTS initiative to find solutions to the salt problem in the Central Valley. There are several basin planning evaluation efforts underway.

Southern Lost Hills BPA

The Central Valley Water Board adopted a BPA to de-designate MUN and AGR uses in groundwater within a portion of the Southern Lost Hills Oil field in June 2022. The BPA is currently under review by the State Water Board for consistency with statewide policies. In response to suggestions by the State Water Board, the Central Valley Water Board may seek additional input from communities in the vicinity of the areas covered by the amendment to ensure heightened outreach requirements established by AB 2108 are satisfied. To receive notices for additional workshops and/or information items related to this Amendment, visit our [website page](#) at:

(www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/southern_lost_hills/)

and subscribe to the Southern Lost Hills Oilfield - Basin Plan Amendment email list, or contact Jennifer Fuller at (916) 464-4646 or at Jennifer.Fuller@waterboards.ca.gov.

California Independent Petroleum Association (CIPA) BPA

The California Independent Petroleum Association (CIPA) submitted information relevant to evaluate MUN and AGR designations on the southwestern portion of the Tulare Lake Basin in western Kern County. Both Board staff and the Central Valley Salinity Coalition have reviewed the information and provided feedback to CIPA's consultant. CIPA is developing a technical report to provide information for a beneficial use evaluation.

McKittrick Oil Fields Area BPA Evaluation

Valley Water Management Company (Valley Water) operates oil field produced wastewater disposal facilities in Kern County. The Facilities receive produced wastewater from oil and gas producers in adjacent oil fields. Valley Water has requested to have MUN and AGR beneficial use removed from groundwater in portions adjacent to and within the administrative boundaries of the South Belridge, Monument Junction, and Cymric oil fields. Board staff have initiated a beneficial use designation evaluation to determine if the removal of MUN and AGR beneficial use designations from the subject groundwater is appropriate and have completed AB-52 and B10-11 tribal consultation opportunity letters. Board staff held a CEQA Scoping Meeting on 25 May 2023 in Buttonwillow, CA.

TRIBAL BENEFICIAL USES DESIGNATIONS

On 2 May 2017, the State Water Board adopted Part 2 of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California—Tribal and Subsistence Fishing Beneficial Uses and Mercury Provisions (Resolution 2017-0027). This Resolution established three new beneficial use definitions: Tribal Tradition and Culture (CUL), Tribal Subsistence Fishing (T-SUB), and Subsistence Fishing (SUB). The SUB and T-SUB beneficial uses relate to the risks to human health from the consumption of fish or shellfish. The definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights.

On 6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 approving the 2018 Triennial Review with TBU designations as a priority project. At the 18 February 2022 Board Meeting, the Central Valley Water Board adopted the proposed basin plan amendment (BPA) to add the TBU definitions to the Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and Tulare Lake Basin. On 7 September 2022, the State Water Board approved the BPA. Board staff continue to usher the BPA through the Office of Administrative Law and United States Environmental Protection Agency as the final components of the approval process.

Board staff continued participation in the TBUs Working Group, which has representatives from the nine Regional Water Boards and several divisions within the State Water Board (including the Office of Chief Council, Office of Public Participation, and Division of Water Quality).

In response to requested clarification on the Basin Plan Amendment Process and our TBU approach, Board staff developed a Frequently Asked Questions document as well as a TBU Basin Planning Primer describing and illustrating the steps needed to successfully designate a waterway with a TBU. Both documents are posted on the project's website (see link below).

As a commitment to providing government-to-government meetings, Board staff host semi-annual hybrid meetings to provide project updates to tribes and their representatives as well as to solicit input to incorporate into the Board's approach. Tribes and their representatives are polled to determine the best timeframes that consider tribal cultural activities and traditional tribal practices to ensure maximum participation. Board staff hosted meetings on 28 April 2022, 10 November 2022, 20 April 2023, and the next meeting will be scheduled for fall 2023.

Board staff continued meeting with tribes who submitted TBU designation requests to review their request, discuss evidence submitted, and provide an opportunity to establish continued collaboration. Meetings will continue to be held and offered throughout the TBU designation process.

More information can be found on the [Tribal Beneficial Uses](https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/tribal_beneficial_uses/) website at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/tribal_beneficial_uses/)

BIOSTIMULATORY/BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide plan for controlling bio stimulatory substances and cyanotoxins under the Bio stimulation, Cyanotoxins, and Biological Condition Provisions (Provisions). Bio stimulatory substances are excess nutrients, primarily nitrogen and phosphorus, that cause harmful aquatic plant and algal growth. Biological condition refers to using indices of species diversity and abundance to assess ecological health of a waterbody. The Provisions may include numeric or narrative water quality objective(s) for bio stimulatory substances and control options for point and non-point sources applicable statewide to streams, rivers, lakes, and reservoirs.

Board staff are managing a task in the discretionary contract with the Southern California Coastal Water Research Project (SCCWRP) to develop technical analyses that are focused on Central Valley streams, lakes, and reservoirs. Streams work is focused on physically modified and constructed channels, particularly in the Central Valley and Modoc Plateau and Northern California intermittent streams. These types of channels are not well represented in statewide streams data sets. SCCWRP examined fitness of the statewide bio stimulatory models and has identified candidate numeric thresholds for bio integrity (benthic macroinvertebrate and algae indices) and indicators of bio stimulation (total nitrogen and phosphorus concentrations and benthic algae growth) in the focus water bodies. constructed and engineered channels. These analyses were delivered in three draft reports. For lakes and reservoirs, Board staff worked closely with SCCWRP staff to compile lakes and reservoirs data. Work by

SCCWRP and Board staff on data dashboard-type display tools for chlorophyll, nutrients, cyanotoxins, and other data is ongoing.

More information on [State Water Board's Provisions](#) can be found on the website at:

(https://www.waterboards.ca.gov/water_issues/programs/biostimulatory_substances_biointegrity/)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PROGRAM (NPDES)

PROJECTS

At the 22 June 2023 Board Meeting, the Central Valley Water Board adopted the NPDES General Order for Municipal Wastewater Dischargers That Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order) with Order R5-2023-0025. Originally adopted in 2017, the Municipal General Order allows advanced facilities to be grouped under a single general order to streamline the NPDES permit renewal process. Discharger-specific effluent limitations and monitoring requirements are issued through a Notice of Applicability approved by the Executive Officer. Nineteen facilities are currently permitted under this general order, with plans to add two more this next fiscal year.

GENERAL ORDER ENROLLMENTS

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders, staff seek to enroll the permittees under the general orders to streamline the permitting process. The NPDES PERMIT Table 1 below summarizes the Notices of Applicability that were issued during the period of 26 May 2023 through 13 July 2023 for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order). No new Notices of Applicability were issued during this period for the Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order), and Waste Discharge Requirements for Cold Water Concentrated Aquatic Animal Production Facility Discharges to Surface Water (CAAP General Order).

NPDES PERMIT Table 1 – Limited Threat Discharges to Surface Waters R5-2022-0006-01

Facility	General Order Permit Number
The Boeing Company, GET H-B, SGSA GET, and Admin. GET Systems	R5-2022-0006-017

Facility	General Order Permit Number
Jen California 6, LLC, Homestead Well Project	R5-2022-0006-018
Goodfellow Bros., Inc., Delta Shores West Project	R5-2022-0006-019

PERMITTING INITIATIVES

The responsibility of the Program Managers for the Non-15, Title 27, and Water Quality Certifications program to discuss/provide updates on major permitting initiatives undertaken by the Regional Board or that the State Water Board is working on where the Central Valley Water Board has a significant role to play – such as the Utility General Order and the Statewide Restoration General Order, both of which involve the Water Quality Certification Program. Nitrate Control Program Implementation update shall be provided here.

NITRATE CONTROL PROGRAM IMPLEMENTATION

Management Zones in the Priority 1 basins submitted Final Management Zone Proposals (FMZPs) to the Central Valley Water Board in August 2022. The documents were available for a 30-day public comment period ending on 24 October 2022. The Central Valley Water Board received written comments on the Management Zone FMZPs on 24 October 2022. The Priority 1 basin Management Zones received concurrence letters of their FMZPs on 23 February 2023. [FMZP concurrence letters and response to comments](#) can be found here:

(https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/nitrate_mz/#com_f%20mzp)

The annual CV-SALTS implementation program update to the State Water Resources Control Board was presented at their 20 June 2023 Board meeting.

On 29 June 2023, Central Valley Water Board Executive (Patrick Pulupa) and Staff (Angela Llaban, Jennie Fuller, True Khang, Cindy Au-Yeung, Hannah Dailey, and Bethany Soto) attended a CV-SALTS Executive Committee Meeting regarding implementation of the Salt and Nitrate Control Programs. Nitrate Control Program topics included a status update on the Management Zones’ general implementation and outreach progress, Implementation Plan status updates, Central Valley Water Board enforcement activities, and SAFER funding of co-contaminants in Management Zones.

On 11 July 2023, Central Valley Water Board Staff (Hannah Dailey) attended the Tule Basin Advisory Committee Meeting regarding Tule Basin Management Zone implementation of the Nitrate Control Program.

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM

Staff are currently working with the Office of Chief Counsel to establish standardized protocols to implement requirements of Assembly Bill 2108. This Assembly Bill sets forth requirements to conduct equitable, culturally relevant outreach to disadvantaged communities or tribal communities and make findings on anticipated water quality impacts in disadvantaged communities and tribal communities because of the this permitted activity.

GENERAL ORDERS UNDER DEVELOPMENT

WASTE DISCHARGE REQUIREMENTS PROGRAM

Three groups of discharges have been identified that are similar in nature and include a significant number of backlogged permits that need to be updated. The three groups include: domestic wastewater treatment plants that treat more than 100,000 gpd (mid-sized domestic), nut and seed drying operations, and fruit and vegetable packing. Each of our offices will take the lead to develop one of these General Orders - Redding will lead the mid-sized domestic, Rancho Cordova will lead the nut and seed drying, and Fresno will lead the fruit and vegetable packing.

The adoption of the new General Orders will not only result in increased regulatory consistency, but it will also significantly reduce our permitting backlog within the WDR Program.

IRRIGATED LANDS REGULATORY PROGRAM

ILRP QUARTERLY STAKEHOLDER MEETINGS

The ILRP stakeholder meeting was held on 26 July 2023, as a hybrid meeting on Zoom and at the Stanislaus County Farm Bureau. The primary topics of discussion were the conditional approval of the Groundwater Protection Targets and the update of the Groundwater Quality Management Plans.

More information regarding the stakeholder meetings can be found on the Central Valley Water Boards' [ILRP – Stakeholder Meetings and Workgroups web page](#)

(https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/).

ILRP COMPLIANCE, OUTREACH & ENFORCEMENT

DRINKING WATER WELL MONITORING OUTREACH

All ILRP enrollees are required to monitor drinking water wells on enrolled parcels for nitrate plus nitrite as nitrogen. This started with members of the East San Joaquin Water Quality Coalition and Tulare Lake Basin Coalitions in 2019 and 2020, respectively.

Members of the San Joaquin & Delta, Grasslands and Westside San Joaquin River Coalitions started monitoring in 2021, and members of the Rice Commission and Sacramento Valley and Westlands Water Quality Coalitions in 2022.

Board staff is tracking notification submittals and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users of the impacted wells. Between 1 May and 30 June 2023, 143 new samples were submitted to GeoTracker by 74 members/landowners from ESJWQC, San Joaquin Delta, the Western San Joaquin River, the Sacramento Valley, and the Tulare Lake Basin Water Quality Coalitions. Approximately 9 percent of samples exceeded the drinking water standard. During the same time, staff sent emails/phone calls to members reminding them of the notification requirement. Out of 4,119 drinking water well exceedances, staff has received 4,087 notification responses. Staff continues to follow up with phone calls, emails, letters and notices of violation, as necessary, for inadequate notification action.

Region-wide, this effort has resulted in 19,889 nitrogen samples being collected and entered in GeoTracker for over 13,102 wells, with approximately 31% of the wells exceeding the nitrate drinking water standard (as of 30 June 2023).

REMINDER LETTERS FOR ENROLLMENT

Water Board staff sent out reminder letters prior to 13260 Directives to owners of potential commercial irrigated lands. Reminder letters are sent to potential non-filers to provide them with information on the ILRP and steps for enrolling in the program. Staff then follow up with Directives as needed. Coalition areas not shown had no reminder letters mailed during the reporting period.

Coalition Area	Reminder Letters sent 1 May 2023 – 30 June 2023
East San Joaquin Water Quality Coalition	122
Total	122

REMINDER LETTERS FOR MEMBER REPORTS

Water Board staff sent reminder letters prior to notices of violation to members who have failed to submit their member report(s) by the Board-approved due dates. Coalition areas not shown had no reminder letters mailed during the reporting period.

Coalition Area	Reminder Letters sent 1 May 2023 – 30 June 2023
Sacramento Valley Water Quality Coalition	515
Total	515

WATER CODE SECTION 13260 DIRECTIVES

Staff sent Directive letters to owners of potential commercial irrigated lands identified through staff inspections of agricultural-zoned parcels. The Directives require recipients to obtain permit coverage within 15 days of receipt. Coalition areas not shown had no Directives mailed during the reporting period.

Coalition Area	Directive Letters sent 1 May 2023 – 30 June 2023
Sacramento Valley Water Quality Coalition	22
Total	22

NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO SECTION 13260 DIRECTIVES

Notices of Violation (NOVs) were sent to those who did not respond to a Directive letter. Failure to respond to the NOV subjects the discharger to further enforcement actions which may include an administrative civil liability order. Coalition areas not shown had no directives mailed during the reporting period.

Coalition Area	NOVs sent 1 May 2023 – 30 June 2023
Sacramento Valley Water Quality Coalition	39
Total	39

NOTICES OF VIOLATION FOR FAILURE TO SUBMIT A MEMBER REPORT

Notices of Violation (NOVs) were sent to coalition members for failure to submit their member report(s) by the Board-approved deadlines. Members who did not respond to our reminder letters were issued NOVs urging them to promptly provide their report(s) to their respective coalitions or potentially face monetary penalties. Coalition areas not shown had no directives mailed during the reporting period.

Coalition Area	NOVs sent 1 May 2023 – 30 June 2023
Sacramento Valley Water Quality Coalition	74
Total	74

ENFORCEMENT FOLLOW-UP

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program and ensuring late member reports are submitted to the coalitions. During this reporting period the Sacramento Valley Water Quality Coalition provided information on members who have not submitted their Irrigation and Nitrogen Management Plan Summary Reports by the 1 March 2023 deadline. This allowed ILRP staff to initiate follow up prior to the typical 31 July coalition member information due date. Notices of Violation (NOVs) are issued for those that don't respond to reminder letters. We have also sent outreach to those identified by our mapping efforts as non-filers to the program and have issued Directive letters to those who have not responded. NOVs were sent to those who did not respond to the Directive letters. Staff works closely with the agricultural water quality coalitions throughout the compliance and enforcement process.

SACRAMENTO RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
GQTM	Groundwater Quality Trend Monitoring
TMDL	Total Maximum Daily Load

CALIFORNIA RICE COMMISSION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
No updates			

SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	AMR	Approved 6/29/23	
5/1/2023	5-Year GQTM	Under review	

Submittal Date	Item	Review Status	Notes
5/1/2023	TMDL Report	Under review	
6/23/2023	2023 GQTM Update	Under review	

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
AMPINAR	Annual Management Practice Implementation and Nitrogen Application Report
GW	Groundwater
GQTM	Groundwater Quality Trend Monitoring
QAPP	Quality Assurance Project Plan
SQMP	Surface Water Quality Management Plan
SW	Surface Water

EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	SW AMR	Under review	
5/1/2023	GW AMR	Under review	
5/18/2023	SQMP Addendum	Under review	
6/9/2023	GQTM Network Update	Under review	
7/1/2023	AMPINAR	Under review	
3/27/2023	QAPP Amendment	Approved	Approved, waiting for signatures

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
3/21/23	QAPP amendment	Approved	Approved waiting for signatures
5/1/23	Annual Monitoring Report	Approved 6/22/23	SW approved. Groundwater and

Submittal Date	Item	Review Status	Notes
			Norman's Nursery under review.

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	GQTM AMR	Under review	
5/10/23	Final revised QAPP	Approval complete	
6/1/23	GQTM Network Update	Under review	
6/30/23	AMR	Under review	

GRASSLAND DRAINAGE AREA COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	2022 AMR	Approved 6/21	
6/7/2023	2023 GQTM Update	Under review	

TULARE LAKE BASIN COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
GQTM	Groundwater Quality Trend Monitoring
SQMP	Surface Water Quality Management Plan

BUENA VISTA COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	GQTM Report - 2022 Water Year	Pending Review	

CAWELO WATER DISTRICT COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	GQTM Report - 2022 Water Year	Pending Review	

KAWEAH BASIN WATER QUALITY ASSOCIATION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	GQTM Report - 2022 Water Year	Approved	
6/19/2023	2023 GQTM Network Update	Approved	

KERN RIVER WATERSHED COALITION AUTHORITY

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	GQTM Report - 2022 Water Year	In Progress	

KINGS RIVER WATER QUALITY COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	GQTM Report - 2022 Water Year	Pending Review	
5/1/2023	GQTM Workplan Revision	In Progress	

WESTLANDS WATER QUALITY COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/11/2023	Draft Updated QAPP	Pending Review	
6/13/2023	2023 GQTM Network Status Update	Pending Review	

WESTSIDE WATER QUALITY COALITION

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	GQTM Report - 2022 Water Year	Pending Review	

OTHER PROJECTS

DATA MANAGEMENT

ILRP staff continues to route water quality monitoring data through the Surface Water Ambient Monitoring Program (SWAMP) for transfer to California Environmental Data Exchange Network (CEDEN) and is current with its CEDEN uploads. CEDEN transfers occur approximately once per month. After ILRP staff performs a completeness check, SWAMP staff loads coalition monitoring data to CEDEN. Four coalitions send data directly to the Central Valley Regional Data Center for transfer to CEDEN in May each year.

Staff observed that there are several EDD data sets that have not been fully uploaded to CEDEN. Since March, staff and OIMA have been working to reconcile those missing records.

GROUNDWATER PROTECTION TARGETS

On 15 December 2022, third-party Coalitions within the Central Valley Region jointly submitted a report proposing Groundwater Protection (GWP) Targets for townships designated as highly vulnerable to nitrate impacts from irrigated agricultural activities. The purpose of the GWP Target development effort is to establish township-level nitrogen loading rates from irrigated agricultural operations that are estimated to achieve compliance with Receiving Water Limitations for groundwater within the time schedules specified in applicable ILRP Waste Discharge Requirements. After input from stakeholders and review by staff, the Executive Officer conditionally Approved the GWP Targets on 30 June 2023.

GRASSLAND BYPASS PROJECT

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
12/20/2022	QAPP Update	Under review	
4/27/2023	2022 AMR	Approved 6/29	

RICE PESTICIDES PROGRAM

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
No updates			

NORMAN'S NURSERY

Deliverables and Activities

Submittal Date	Item	Review Status	Notes
5/1/2023	Annual Management Plan Progress Report	Under review	

NON-POINT SOURCE (NPS)

The U.S. Environmental Protection Agency provides funding from the Clean Water Act Section 319(h) Grant Program to states to implement nonpoint source (NPS) control activities, with focus on impaired water bodies. Section 319(h) Grant Program funding is used in California to support grant projects and Water Board staff time to conduct NPS control activities that are consistent with federal nonpoint source priorities.

The Central Valley NPS Program is guided by the [2020-2025 Nonpoint Source Program Implementation Plan](#) (Five-Year Plan).

(https://www.waterboards.ca.gov/water_issues/programs/nps/docs/plans_policies/NPS%202020-25%20Accessible%20MH%203.9.21.pdf)

This implementation plan is updated every five years to reflect current priorities for NPS programs. Water Board staff utilize the Five-Year Plan to develop annual work plans. At the start of each calendar year, Water Board staff coordinate internally to determine which priority efforts would benefit from NPS funds. These activities are then incorporated into the annual work plans for the following fiscal year. For Fiscal Year 23/24 the projects listed below were prioritized for inclusion in the NPS work plan.

Specific information regarding each of the projects prioritized for NPS funding can be found in the program-specific section of the EO Report.

- Implement the Clear Lake Nutrient TMDL
- Implement the San Joaquin River Selenium TMDL
- Implement pesticide TMDLs and pesticide management plans
- Implement the Stockton Dissolved Oxygen TMDL
- Post-fire Erosion and Sediment Control
- Implement Central Valley-Salinity Long-term Sustainability (CV-SALTS)
- Harmful Algal Blooms Assessment
- Manage 319(h) Grants

DAIRIES/CONFINED ANIMAL FACILITIES

ANNUAL INSPECTION PROGRESS

The number of Confined Animal Facility inspections conducted since the last meeting of the Board is typically reported in the Enforcement Report below. Regarding progress on the annual number of inspections conducted, as of 30 June 2023, the Rancho Confined Animals Unit has conducted 79 inspections and the Fresno Confined Animals Unit has conducted 118 inspections, for a total of 197. The annual performance target for Fiscal Year 2022/20223 was 275 inspections.

DAIRY DIGESTERS/DAIRY POND LINER DESIGN REPORTS

Dairy digester projects usually begin as a double lined pond that once constructed is covered and converted to a digester. Staff has taken active role as Technical Advisory Committee members in the review of several dairy digester project proposals submitted to the California Department of Food and Agriculture (CDFA) under a competitive grant application process. CDFA's Dairy Digester Research and Development Program (DDRDP) provides financial assistance for the installation of dairy digesters, which will result in reduced greenhouse gas emissions from manure generated on California dairy farms. Financial assistance for the installation of dairy digesters comes from California Climate Investments, a statewide initiative that uses Cap-and-Trade program funds to support the state's climate goals. CDFA and other state agencies are investing these proceeds in projects that reduce greenhouse gas emissions and provide additional benefits to California communities. Twenty-seven (27) applications were received last year and were reviewed for a total funding request of approximately \$35.4 million. Grant recipients were announced in October 2022, awarding 14 projects totaling \$18.7 million in grant funding. The program is currently accepting applications for 2023.

Information about the [Dairy Digester Research and Development Program](#) projects is available at

(<https://www.cdfa.ca.gov/oefi/ddrdp/>)

Staff reviews design reports related to the digester pond double-liners at dairies to ensure they are protective of water quality.

ANNUAL REPORTS

Rancho Cordova office has begun receiving early annual dairy and bovine reports. The bovine and dairy annual reports are due by 1 July of each year. Poultry reports are due 1 August of each year.

The Fresno office has received most of their annual dairy and bovine reports and are in the process of identifying any non-filers and reviewing the reports.

ALTERNATIVE MANURE MANAGEMENT

CDFA assembled a Manure Recycling and Innovation Product Task Force to help address the overloading of manure on crop land associated with dairies. Board Management participated in the Task Force. The Task Force released its [final report](#) on 10 March 2023. It can be found at:

(https://www.cdfa.ca.gov/oefi/research/docs/MRIP_FinalReport.pdf)

PONDS INTERSECTING GROUNDWATER

Directives were issued to about 70 dairies in the spring of 2019 requiring them to determine whether there is separation between the bottoms of their ponds and the highest anticipated level of groundwater. As a result, approximately 30 dairies were subsequently required to submit workplans for remediating ponds because they did not have separation. An additional 30 directives were issued to dairies that had indicated they had adequate separation, but the determination was based on regional data. These directives required installation of piezometers to monitor depth to groundwater. The requirement to implement both the pond remediation and piezometer directives remains hold pending State Board's response to the Dairy General Order petition.

There are approximately 100 additional dairies around the Region where shallow groundwater may be present.

OIL FIELDS PROGRAM

WASTEWATER SURFACE PONDS

Central Valley Water Board staff continues to work on enrolling oil field operators (operators or dischargers) under the Oil Field General Orders for Discharges to Land or individual waste discharge requirements (WDRs) and evaluating operator compliance with those that have been issued. Staff also continue to work on closure plans for oil field produced wastewater (produced wastewater or discharge) ponds. Major items completed by Staff are identified below:

- Staff received several Reports of Waste Discharge (RWDs) from operators interested in using produced wastewater for dust control in the Kern River Oil Field and the Coalinga Oil Field. A review of the RWDs found that they are not complete and will need to be revised before Staff can consider the proposed discharge for coverage under WDRs.
- Staff issued revised Monitoring and Reporting (MRP) Order No. R5-2019-0043 to Hathaway LLC, Kern-Tulare Water District, and Jasmin Ranchos Mutual Water Company. The revised MRP will reduce monitoring and reporting of the discharge and facility from quarterly to semi-annual. The MRP was revised because a review of a demonstration and data submitted to satisfy the MRP found that the discharge has not varied significantly since the MRP was issued in 2019.
- Staff sent a letter to a discharger requiring the installation of monitoring wells by 31 December 2023. The discharger was issued a Notice of Applicability (NOA) for General Order Two for ponds on the Mitchel Lease in the Chico Martinez Oil Field.
- Staff sent a letter to a discharger that identified deficiencies in a Notice of Intent (NOI) for coverage under General Order No. One for two ponds on the Kathy Lease in the Deer Creek Oil Field.
- Notices of Violations (NOVs) were issued for the following:
 - A facility in the Kern Front Oil Field which is used to store produced wastewater before it is blended and used for irrigation. The NOV was issued because oil was observed on a reservoir surface, which is a violation of the Water Quality Control Plan for the Tulare Lake Basin, Third Edition. The operators have resolved the issue and have been informed that no further action is required regarding the NOV.
 - Several facilities in the Poso Creek Oil Field where surface ponds were used for produced wastewater disposal. A file review conducted for the facilities before an inspection found that the operator has not submitted any monitoring reports for the facilities. The ponds are not active, and the operators have stated that they want to close the ponds but have not submitted a closure plan for Staff review. As per Cleanup and Abatement Order (CAO) No. R5-2015-0722, the operator is required to submit annual facility inspection reports but has not submitted them in several years.
 - A facility in the Mount Poso Oil Field reminding the operator that it remains in violation of WDRs No. R5-2002-0108. In addition, the operator is in violation of California Water Code section 13260 for not applying for updated waste discharge requirements. The letter reminded the operator that potential liability continues to accrue.
 - A letter was sent to an operator stating their closure workplan needed to be revised. Revisions needed to include additional information, and a commitment to complete additional work. This review was for a pond closure workplan for a facility in the Kern Front Oil Field.

- A letter was sent to an operator stating their closure workplan was approved if they submit written commitments to conduct additional work. This review was for a pond closure workplan for a facility in the Midway Sunset Oil Field.
- Staff sent a letter to a discharger with inactive ponds on Cauley Lease in the Poso Creek Oil Field requesting revised closure plans.
- Staff sent a letter to a discharger approving a closure plan for a pond on the Mitchell Lease in the McDonald Anticline Oil Field.
- Staff sent a letter to a discharger approving sampling and closure plans for three ponds on the Section 27 and Section 35 Leases in the North Belridge Oil Field. Staff requested a revised closure plan for a fourth pond.
- Staff continue to review applications and monitoring reports for drilling mud sumps regulated under the Statewide General Waste Discharge Requirements for Discharges to Land with a Low Threat to Water Quality (General Low Threat WDRs).

Staff conducted 32 inspections for facilities where produced wastewater is disposed of in surface ponds. This includes facilities in the following oil fields: Poso Creek, Lost Hills, Midway-Sunset, Coalinga, Antelope Hills, and Deer Creek. Most of the facilities inspected are regulated under WDRs, or in the process of closure.

SPILL RESPONSE

Staff respond to oil field spills and upsets reported to the Governor's Office of Emergency Services (OES). Staff were notified of 9 new Oil Field related spill events from 20 May 2023 to 5 July 2023. Major events are summarized below.

On 5 July 2023, staff received OES Spill Report # 23-4322 that indicated that 0.5 barrels (21 gallons) of crude oil was released into the Los Gatos Dry Creek Bed at a Crimson Midstream, LLC (Crimson) facility in the Coalinga Oil Field. The report indicated that cleanup was underway. On 6 July 2023 Staff contacted Crimson staff by phone and email. Crimson staff provided a picture showing the oil spill in the stream bed. Staff will schedule a post cleanup inspection after cleanup work is complete.

On 19 June 2023, staff received OES Spill Report #23-3966 indicating that a failure in a Chevron Corporation (Chevron) pipeline resulted in a discharge of approximately 0.5 barrels of crude oil and 3.6 barrels of produced wastewater to a blue line dry stream bed. Staff contacted Chevron staff and received a picture of the spill. Cleanup of the spill is underway, and Staff will schedule a post clean up inspection once cleanup activities are completed.

On 8 June 2023, staff inspected the site of the OES Hazardous Materials Spill Report # 23-1595, which indicated that due to internal/external corrosion of a Chevron pipeline, 6 barrels of crude oil and approximately 5 barrels of produced wastewater were released to a stream bed on 6 March 2023. Staff during an inspection on 8 June 2023 observed

that the spill had been cleaned up and there were no indications of produced wastewater or crude oil from the spill in soils in the stream bed. Staff conveyed a letter to Chevron dated 22 June 2023 indicating that based on available information no further action is needed.

A staff letter dated 2 June 2023 addressed to the California Resources Corporation contained a staff inspection report for an inspection conducted on 21 March 2023. During the inspection Staff confirmed that California Resources Corporation staff had completed cleanup of approximately 2 barrels of crude oil and approximately 18 barrels of produced waster released into a dry stream bed on 3 March 2023 (OES Spill Report # 23-1519). The letter dated 2 June 2023 stated, "No further action is needed at this time."

On 1 June 2023, staff received OES Spill Report #23-3576. The report indicated that a "Sheen" of unknown size was observed in the Kern River. The report stated that "The City of Bakersfield reports seeing sheens at the weir. Chevron also identified potential sheens at several locations along the Kern River. RP [Chevron] states the source of the potential sheen is unknown and there is no evidence that it is a result of any active oil field operations." An update to the report stated that "RP [Chevron] states the City of Bakersfield reports seeing sheens upstream of Chevron operations and at the weir." A further update stated that "RP [Chevron] stated that there was an unknown substance in the Kern River, RP conferred with OSPR and the City of Bakersfield, who were unable to determine the nature of the potential sheen." On 1 June 2023 Staff contacted Department of Fish and Wildlife (DFW) staff and they indicated that the cause of the sheen was still unknown. They had attempted to identify the source of the sheen using a boat. Staff also contacted staff at Chevron. No further updates have been provided by DFW staff or from Chevron staff regarding this incident. Currently there is no evidence available indicating that the cause of the sheen was a result of oil field operations.

On 29 May 2023, staff received OES Spill Report #23-3501. The report indicated that on Sunday, May 28th, approximately 20 to 25 barrels of crude oil spilled at an Aera Energy LLC facility in the South Belridge Oil Field. The location of the spill was approximately 275 feet north of the Aera Energy, "Dehydration Plant 2" pond facility regulated by under General Order Number R5-2017-0035-003. On 30 May 2023, Staff contacted Aera staff by phone and email. Aera staff updated the final spill volume as 5.7 barrels of crude oil, and provided pictures showing pictures of the spill and pictures taken after spill cleanup activities were completed. No waterways were impacted and based on the pictures provided by Aera staff, the spill area appears to have been cleaned up. No further action is needed currently.

UIC PROGRAM

During the period from 20 May 2023 to 7 July 2023, Staff of the Underground Injection Control Unit (UIC) performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Formation Aquifer Exemption – Staff and State Water Board staff met with CalGEM to discuss the conduit analysis. The conduit analysis has been completed. Staff met with State Water Board and CalGEM to discuss expectations and requirements for remediation and monitoring of potential conduits. Staff continues to provide State Water Board staff and CalGEM feedback on a draft Remediation and Monitoring Plan guidance document for operators.

Kern River Kern River Formation Aquifer Exemption – Staff and State Water Board staff met with CalGEM to discuss the conduit analysis. The conduit analysis has been completed. Staff met with State Water Board and CalGEM to discuss expectations and requirements for remediation and monitoring of potential conduits. Staff continues to provide State Water Board staff and CalGEM feedback on a draft Remediation and Monitoring Plan guidance document for operators.

Round Mountain, South Area, Olcese Formation Aquifer Exemption – Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Deer Creek Santa Margarita Formation Aquifer Exemption – Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Mount Poso, Dorsey Area, Vedder Formation Aquifer Exemption – Staff and State Water Board staff met with CalGEM and the Operators to discuss the conduit analysis. The conduit analysis has been completed. Staff continues to provide comments to the State Water Board regarding the operator's revised aquifer exemption application.

UIC PROJECT REVIEWS

Staff issued four no objection letters and memorandums for UIC projects in Cymric, McKittrick, South Belridge, and Midway-Sunset Oil Fields.

Staff sent four letters and memorandums requesting information for UIC projects in the Lost Hills, Kern Front, Mount Poso, and Midway-Sunset Oil Fields.

Staff received three responses to reviews performed for proposed waterflood, steam flood, and cyclic steam projects in the Edison, Poso Creek, and Mount Poso Oil Fields. Staff is reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, staff have not received nor reviewed Well Stimulation Treatment Applications, as none have been forwarded from CalGEM.

Staff are currently reviewing four groundwater monitoring reports submitted by Operators that previously conducted well stimulations.

FOREST ACTIVITIES PROGRAM

DEVELOPMENT OF A FEDERAL NPS PERMIT FOR USFS AND BLM ACTIVITIES

Staff continues to evaluate and refine the draft permit and draft EIR produced by contracted CEQA consultants.

A contractor has been selected to create the training modules that will accompany the permit, once adopted, with the expectation that the finished product will be ready in the summer of 2024.

INSPECTIONS

Staff have completed 255 of the 270 inspections targeted for FY 22/23 on commercial timber harvesting, utility vegetation management and federal forest management activities.

CANNABIS PROGRAM

CANNABIS GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Staff continue to enroll dischargers into our General Order and process terminations, which have increased in the past several months. Division of Water Quality (DWQ) has taken over responsibilities for issuing Notices of Applicability (NOAs). Fees were increased again for FY22/23 and dischargers received invoices reflecting those increases. Staff are responding to questions from dischargers related to invoices and possible termination of their permits.

Cannabis Table 1. Summary of the Statewide General Order enrollments in the Central Valley Region to date

(CE = Conditionally exempt, enrolled in the Statewide Cannabis Waiver of Waste Discharge Requirements.)

County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Calaveras		22	2		65	3	3	95
Colusa		1			2		5	8
Contra Costa					1		5	6
El Dorado		5			2			7
Kern							4	4
Kings					3		2	5
Lake		124	1	7	243	2	56	433

County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Fresno					6		10	16
Merced							10	10
Nevada	2	254	5		36		22	353
Sacramento							169	169
San Joaquin							7	7
Sierra								
Solano							5	5
Shasta							24	24
Siskiyou							5	5
Stanislaus		5			1		38	45
Tulare							9	9
Yolo		8			33		3	44
Yuba							2	2
Totals	2	419	8	7	392	5	379	1212

COMPLIANCE AND ENFORCEMENT – ENROLLMENT ENFORCEMENT

- 6/23/2023 Rancho Staff have issued 23 13260 Orders in Tuolumne and Stanislaus Counties.
- 7/12/2023 Redding Staff have drafted 10 NOVs in response to 13260 Orders issued to Nevada County cultivators in May 2023.

ENFORCEMENT

- On 11-12 May 2023, 22 warrant inspections, Kern and Tulare Counties
- On 17 May 2023, 4 warrant inspections, Tuolumne County
- On 23 May 2023, 1 warrant inspection, Yuba County
- On 25 May 2023, 1 warrant inspection, San Joaquin County
- On 21 June 2023, 4 warrant inspections, Tehama County

INSPECTION REPORTS ISSUED

Rancho Cordova office:

Jesus Gomez, IR issued 6/26/2023
Herminio Chavez, IR issued 6/21/2023
Gabriel Samano, IR issued 6/11/2023
Alfredo Napoles, IR issued 6/11/2023

Leonal Medrano, IR issued 6/13/2023
Rueben Mendoza, IR issued 6/14/2023
Hector Valenca, IR issued 6/08/2023
Aurelia Zamora, IR issued 6/08/2023
Maria Sanchez, IR issued 6/07/2023

Redding office:

Jose Lopez, IR issued 5/25/2023
Hector Mendoza, IR issued 6/21/2023

13267S ISSUED

CLEANUP AND ABATEMENT ORDERS

Staff are drafting two CAOs with the assistance of the Office of Enforcement, one for the Amiri site in Nevada County and one for the Edwards/Carlile site in Shasta County.

ENFORCEMENT REPORT

Enforcement is a critical ingredient in creating deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves public confidence when the government is ready, willing, and able to back up its requirements with action. This section of the EO Report is intended to inform the Board and the public on enforcement efforts since the last EO Report was issued. For this reporting period, the following sections provide: 1) a summary of enforcement orders issued; and 2) a summary of all enforcement actions issued.

ORDERS, COMPLAINTS, AND INSPECTIONS

Enforcement Table 1, included below, provides a summary of all the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDOs); 13267 Investigative Orders; Expedited Payment Letters (EPLs); and Administrative Civil Liability (ACL) Orders and Complaints) issued by the Central Valley Regional Board or staff since the previous EO Report that are recorded in the California Integrated Water Quality System (CIWQS) database. For this reporting period, 1 May 2023 through 30 June 2023, two formal enforcements were issued.

**Enforcement Table 1 – Central Valley Enforcement Orders
1 May 2023 through 30 June 2023**

Action Date	Agency	County	Notes
6/22/2023	Joe & Renee Barosso Dairy	Merced	Stipulated Cease and Desist Order, Settlement Agreement, and Stipulation for Entry of Administrative Civil Liability Order R5-2023-0505. The Orders resolve violations of the Dairy General Order.
6/22/2023	The Grove	Placer	Administrative Civil Liability Order R5-2023-0507 was issued on 2 June 2023 for violations of the Construction General Storm Water Permit. Failure to implement sediment and erosion control Best Management Practices led to turbid discharges from the site during the winter of 2021/2022.

ENFORCEMENT ACTIONS AND ABBREVIATIONS

- 13267 – Water Code Section 13267 Investigation Order
- NNC – Notice of Non-Compliance
- ACL – Administrative Civil Liability
- CAO – Cleanup and Abatement Order
- CDO – Cease and Desist Order
- EPL – Expedited Payment Letter
- NOV – Notice of Violation
- NTC – Notice to Comply
- SEL – Staff Enforcement Letter
- TSO – Time Schedule Order
- VER – Verbal Communication

**Enforcement Table 2 – Enforcement Actions in CIWQS
1 May 2023 through 30 June 2023**

Region	13267	NNC	ACL	CAO	CDO	EPL	NOV	SEL	UNK	VER	Total
5F	0	0	0	0	0	0	6	8	0	0	14
5R	0	0	0	0	0	0	13	0	0	1	14
5S	0	0	1	0	1	11	67	10	0	1	91
Total	0	0	1	0	1	11	86	18	0	2	119

**Enforcement Table 3 – Enforcement Actions in GeoTracker
1 May 2023 through 30 June 2023**

Region	13267	CAO	Letter – Notice	NOV	Staff Letter	VER	Total
5F	0	0	0	3	48	11	62
5R	0	0	1	2	14	1	18
5S	3	0	10	39	162	13	227
Total	3	0	11	44	224	25	307

**Enforcement Tables 4 and 5 – ILRP Enforcement Actions
1 May 2023 through 30 June 2023**

The Board’s Irrigated Lands Regulatory Program (ILRP) does not upload enforcement actions into either the CIWQS or GeoTracker databases. For the period between 1 May 2023 through 30 June 2023, a summary of those enforcement actions is included in Tables 4 and 5, below.

Enforcement Table 4 – ILRP Enforcement Actions

Region	Reminder Letter for Failure to Submit Annual Member Report (Irrigation and Nitrogen Management Plan Summary Report)	NOVs for Failure to Submit Annual Member Report (Irrigation and Nitrogen Management Plan Summary Report)	Total
5F	0	0	0
5S	515	74	589
5R	0	0	0
Total	515	74	589

Enforcement Table 5 – Region 5 ILRP Enforcement Actions cont.

Region	Reminder Letter for Failure to Enroll in ILRP	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to Directive	Total
5F	0	0	0	0
5S	122	22	39	183
5R	0	0	0	0
Total	122	22	39	183

NITRATE CONTROL PROGRAM ENFORCEMENT INITIATIVE

It has been a year since compliance and enforcement staff started working on enrollment of nonflier dischargers in the Priority 1 basins for the nitrate initiative. There have been positive results with the outreach efforts by staff. At the request of management, staff have moved to the next phase of the enrollment process by pursuing nonpermitted dischargers, not only to get them under the proper regulatory requirements but enrolled into the program. Staff met with attorneys from the Office of Enforcement as well as the Office of Chief Counsel to receive guidance on how to move ahead with enforcement. Like the Original number of 52, outreach and communication will be the first part of the process. Currently, there are 14 new sites that meet this category.

CONFINED ANIMAL ENFORCEMENT

**Enforcement Table 6 – CAF Inspections
1 May 2023 through 30 June 2023**

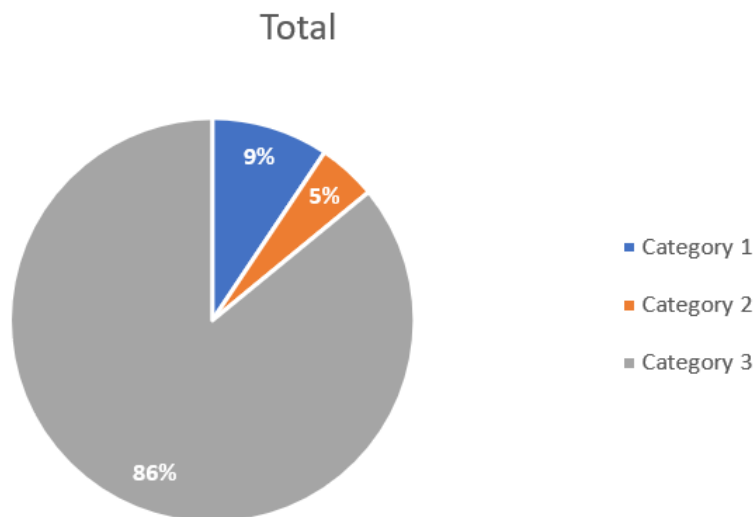
Confined Animal Facility Inspections	
5S Sacramento	15
5R Redding	(included with Sacramento)
5F Fresno	41
Total	56

SIGNIFICANT ENFORCEMENT ACTIONS

SANITARY SEWER OVERFLOWS (SSOS)

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS General Order) 2006-003-DWQ requires enrollees to submit an SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 May 2023 through 30 June 2023, there were 0 reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

SSO SUMMARY DATA



**Enforcement Figure 1: Central Valley Sanitary Sewer Overflow Summary
1 May 2023 through 30 June 2023**

For the reporting period between 1 May 2023 through 30 June 2023, there were 64 total SSO spills: 6 Category 1, 3 Category 2, and 55 Category 3 spills.

ADDITIONAL INFORMATION ON SSOS

Additional information regarding SSOs including the current Monitoring and Reporting Program (MRP) can be found at the [State Water Board's Sanitary Overflow Reduction Program](#)

(https://www.waterboards.ca.gov/water_issues/programs/sso/index.html).

Sewage Collection Agencies report SSOs on-line at the State Water Board's CIWQS database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (General Statewide Waste Discharge Requirements for Sewage Collection Agencies).

COMPLAINT RESPONSE TRACKING

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 May 2023 through 30 June 2023, Central Valley Water Board staff have received a total of **44 complaints** from phone calls, emails, and from the CalEPA Complaint database. To date, 40 (91%) complaints have been investigated and closed or referred to other environmental enforcement agency. Investigations into four complaints remain ongoing.

[CalEPA Complaint database](#)

(<https://calepacomplaints.secure.force.com/complaints/>).

ADMINISTRATIVE CIVIL LIABILITY ACCOUNTING

The Water Board has the authority to impose administrative civil liabilities for a variety of violations under Water Code section 13323. All the monetary liability of an ACL penalty goes to the State Water Pollution Cleanup and Abatement Account (CAA); however, the monetary penalty may be directed toward a compliance or environmental project. These projects are as follows:

COMPLIANCE PROJECT (CP)

The Regional Water Boards may allow a small community publicly owned treatment works that has a financial hardship to spend an amount equivalent to the MMP toward a CP that is designed to address problems related to the mandatory minimum penalties (MMP) violation(s) and bring the discharger back into compliance in a timely manner.

SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

A settling party may offset a portion of the monetary liability of an ACL penalty by voluntarily choosing to fund SEP that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger. State provides a benefit to

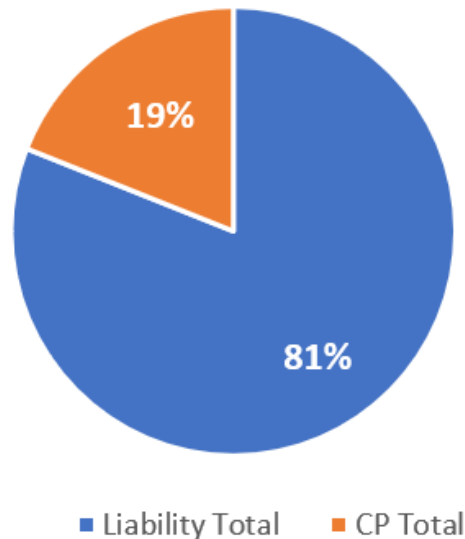
the public at large, and that, at the time they are included in an ACL action, are not otherwise required of the discharger.

ENHANCED COMPLIANCE ACTION (ECA)

ECAs are projects that enable a discharger to make capital or operational improvements beyond those required by law and are separate from projects designed to merely bring a discharger into compliance. The Water Boards may approve a settlement with a discharger that includes suspension of a portion of the monetary liability of an ACL for completion of an ECA.

For the fiscal year period between 1 July 2022 to 30 June 2023, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$971,287 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$228,00 was allocated for CPs (see Enforcement Figure 2 below).

Monetary Penalties 1 July 2022 to 30 June 2023



Enforcement Figure 2: Region 5 – Sum of Total Monetary Penalties Issued during the fiscal year 1 July 2022 through 30 June 2023

CLEANUP SUCCESSES

**Enforcement Table 7 – Region 5 Cleanup Action Summary
1 July 2022 through 30 June 2023**

Programs	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	1	25%	NA	NA
New SCP Sites into Active Remediation	20	111%	NA	NA
Cleanup Program Sites Closed	34	94%	NA	NA
New UST Sites into Active Remediation	16	100%	NA	NA
Underground Storage Tank Sites Closed	37	82%	NA	NA

UNDERGROUND STORAGE TANKS – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

Following are sites where Board staff concluded that residual hydrocarbons do not pose a threat to human health and safety or anticipated future beneficial uses of water. This decision is based on site-specific information provided by the responsible party and assumes that the information provided was accurate and representative of site conditions. Most of these cases have been evaluated in accordance with criteria in the State Water Board’s Low-Threat Underground Storage Tank (UST) Case Closure Policy (*Low-Threat Closure Policy*). Upon completion of corrective action, section 2728(d)(2) of Title 23 of the California Code of Regulations requires public notification that corrective action has been completed and the regulatory agency does not intend to require additional investigation and cleanup. This document serves to provide public notification for the completion of corrective actions.

For more information regarding a site, the appropriate office personnel should be contacted: Fresno (559) 445-5116, Redding (530) 224-4845, and Sacramento (916) 464-3291.

SACRAMENTO

AUXILIARY TRANSMISSION SITE, 14003 RIVER ROAD, WALNUT GROVE, SACRAMENTO COUNTY

In 1998, KVOR broadcasting company removed a 1,000-gallon diesel UST. In 1999, their consultant completed an investigation of the diesel release, concluded that the release was not a risk, and requested case closure. In 2019, Sacramento County transferred the case to Central Valley Water Board. Staff concluded that the case data met the criteria of the Low-Threat Closure Policy and concurred with the 1999 request for case closure. Staff completed the case closure notification requirements. Staff closed the case on 10 July 2023. (BJL)

COMFORT AIR, 1607 TURNPIKE ROAD, STOCKTON, SAN JOAQUIN COUNTY

In 1989, a petroleum release from a 550-gallon gasoline UST was discovered on Site during the tank removal process. Between 1992 and 2010, RESNA and AGI advanced multiple soil borings and installed several groundwater monitoring wells to investigate and delineate petroleum impacts to soil and groundwater from the release. From June 2015 to December 2016, AGI operated a dual-phase extraction system to remediate petroleum impacts. In 2018, AGI conducted a soil vapor analysis on Site and did not detect petroleum compounds. In a 2019 *Low-Threat Closure Evaluation Report* and 2020 *Site Assessment Report*, AGI concluded that Site conditions pose a low risk to human health and safety. Central Valley Water Board staff reviewed the current Site conditions against the criteria in the Low-Threat Closure Policy and concurred with AGI that the case is eligible for closure and qualification for “No Further Action” status. Staff closed the case on 10 July 2023. (MWM and VJF)

CONAWAY RANCH HEADQUARTERS, 45332 COUNTY ROAD 25 WOODLAND, YOLO COUNTY

The Site is the former headquarters for the Conaway Ranch (17,000-acre farm). A 10,000-gallon UST was removed from the ground and utilized as an above ground tank in 1979, until its complete removal from the Site in 1992. In 1995, the 1,000-gallon UST was excavated and removed from the Site. Between October 1992 and November 2016, several soil and groundwater investigations were conducted. Remedial actions conducted at the Site have included soil excavation and operation of a multi-phase extraction remediation system from 2006 to 2010. These actions resulted in the removal of approximately 14,000 cubic yards of impacted soil and approximately 31,780 pounds of petroleum as soil vapor and dissolved in groundwater. On 28 January 2015, the consultant requested case closure on behalf of Conaway Ranch. Staff denied case closure based on high dissolved phase petroleum concentrations in shallow groundwater. On 27 July 2016, Barg Coffin, on behalf of Conaway Ranch, proposed the Deed Notification Covenant as satisfaction of case closure for the Site. Central Valley Regional Board staff concurred with this request, and the Covenant was signed by the Central Valley Water Board Executive Officer in December 2021. The Covenant was recorded by the Yolo County Clerk-Recorder on 24 January 2022. Therefore, Central

Valley Water Board staff concurred that the case met the Low-Threat Closure Policy with institutional controls to protect human health by reducing the risk of exposure to residual petroleum hydrocarbons. Central Valley Water Board staff closed the case on 7 July 2023. (MJD)

DICKEY PETROLEUM, 385 SOUTH HIGHWAY 59, MERCED, MERCED COUNTY

Subsurface petroleum impacts were observed during removal of the three USTs and the former fuel dispensers in 1999. The former property owner excavated impacted soil to a depth of 8 feet below ground surface in the former fuel dispenser area. ECG operated an SVE system on Site in 2012 and 2018 to actively remediate petroleum impacts in the soil. The most recent groundwater monitoring data shows that groundwater around the Site is not impacted by TPH or BTEX compounds. Groundwater concentrations of MTBE are delineated downgradient by the monitoring wells from a separate leaking UST case approximately 1,000 feet to the north. There are no domestic supply wells within the extent of the groundwater plume. AdvancedGeo recommended that the case be considered for closure based on limited soil impacts and low to non-detect petroleum hydrocarbons in the delineated groundwater plume. Central Valley Water Board staff concurred that the case meets the Low-Threat Closure Policy. Staff closed the case on 7 July 2023. (MJD for MSP)

MAIN STREET INVESTORS, 601 EAST MAIN STREET, STOCKTON, SAN JOAQUIN COUNTY

On 2 July 2004, one 3,000-gallon heating oil UST was discovered under the sidewalk on the north side of East Main Street, and a contractor removed the tank. During removal, heating oil was encountered in the soil underlying the UST. The contractor excavated 5 yd³ of soil from the UST pit and disposed of the excavated soil. Additional remediation was not warranted at the Site. AGI investigated soil, soil gas, and groundwater at the Site from 2009 to 2021. Sample data were below Low-Threat Closure Policy criteria. AGI evaluated the case and concluded the Site meets the criteria for closure. Staff concurred. Soil gas samples also contained a small amount of PCE (15 ug/m³ which is the residential ESL) and a greater amount of chloroform (370 ug/m³ which exceeds residential ESL), neither of which should have come from the tank. Staff opened a non-case site to document the chloroform data in GeoTracker. Staff closed the leaking UST case on 7 July 2023. (MJD)

MEZA BROTHERS, INC., 2657 EAST PACHECO BOULEVARD, LOS BANOS, MERCED COUNTY

A release of petroleum fuel occurred at the Meza Bros Site beneath the historical UST system. In 1999, SGI (consultant) removed 7,820 pounds of petroleum hydrocarbons from the subsurface during the 2010 soil excavation. In 2004, the consultant installed a bio-reactive trench to degrade subsurface petroleum. In 2010, the consultant enhanced bioremediation by adding calcium peroxide to groundwater. In 2015, absorbent socks removed additional petroleum hydrocarbons from monitoring wells. Although petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the

impact to groundwater is defined and stable. Groundwater data indicate that remaining petroleum concentrations in groundwater are unlikely to impact the irrigation well (approximately 250 feet south and upgradient of the plume) and the San Luis Canal (800 feet southeast and upgradient of the plume). The Site meets the criteria in the Low-Threat Closure Policy. Central Valley Water Board staff concurred with Apex's recommendation for UST case closure. Staff closed the case on 7 July 2023. (MJD for MSP)

PACIFIC PRIDE SOUTH EL DORADO, 3147 EL DORADO STREET, STOCKTON, SAN JOAQUIN COUNTY

The property was previously used for fuel storage with USTs dating back to the 1940's and operated as a commercial fueling cardlock station from the mid-1980s to 2003. The property is currently used for parking and trucking container storage. In September 1998, three 10,000-gallon USTs (one diesel and two gasoline) were removed from the Site. Between 2013 and March 2016, a dual-phase extraction remediation system removed 5,682 pounds of petroleum vapor. In the February 2021 *NFAR Report*, AGI concluded the Site meets the Low-Threat Closure Policy. Public notice was completed in July 2022. The well destruction report was submitted in April 2023. Staff closed the case on 7 July 2023. (VJF)

FRESNO

ROSE'S SPRINGVILLE SERVICE, 35601 STATE HIGHWAY 190, SPRINGVILLE, TULARE COUNTY

The subject property (Site) is in an area of commercial and residential properties in the community of Springville, in the Sierra Nevada Mountains. A UST system release to soil and groundwater was discovered during 1997. Investigations, at the direction of the local regulatory agency began in May 2002, and determined the vertical and lateral extent of gasoline constituents in soil. Hydrocarbon mass was limited due to the thin vadose zone overlying granitic bedrock at approximately 3-15 feet below ground surface (bgs). Groundwater was at less than 20 feet bgs, with seasonal variations. Lateral migration resulted from the smearing of free product and elevated concentrations dissolved in groundwater. Additional soil investigation was conducted during 2019 to identify areas with the greatest gasoline mass affecting shallow groundwater quality. Groundwater monitoring conducted from 2002 until 2022 defined a stable contaminant plume with persistent elevated benzene concentrations.

Approximately 670,000 gallons of groundwater affected by the release were extracted from 2010 to 2016 and treated to remove gasoline constituents. Regulatory oversight of the case was transferred to the Central Valley Water Board in 2016. Central Valley Water Board staff concluded that groundwater extraction had not removed the source of the elevated benzene groundwater concentrations that prevented meeting the Policy's Groundwater criteria. Dual phase extraction was conducted during 2017 and 2018. The shallow water table caused water to be entrained in the vapor stream, shutting off the system. Continuous operation was possible by reducing vacuum but was not effective to

dewater the vadose zone. Approximately 140 pounds (lbs.) of gasoline constituents were removed, but benzene concentrations in groundwater did not decrease.

1. Remediation shifted to excavation of the contaminated shallow soil at locations identified by the 2019 soil investigation. Limited exploratory excavation was conducted during 2020. Final excavations during 2021 removed more than 1,000 pounds of gasoline constituents in approximately 500 cubic yards of soil.

Residual petroleum hydrocarbons should not present a threat to human health, the environment, or beneficial uses of groundwater and will be further reduced by natural attenuation. All technically and economically feasible cleanup has been completed. Central Valley Water Board staff closed the case in accordance with the *Low-Threat Closure Policy* on 2 June 2023. (JDW)

SITE CLEANUP PROGRAM SUCCESSES

SACRAMENTO

NO FURTHER ACTION DETERMINATION, ALZA FACILITY, 700 EUBANKS DRIVE, VACAVILLE, SOLANO COUNTY

The Site is a pharmaceutical manufacturing facility and consists of an 11.25-acre parcel developed with a two-story 230,000 square foot building, a solid and hazardous waste management area, an electrical substation, a wastewater treatment plant, and an aboveground storage tank (AST) area for waste and raw materials. ALZA identified a chloroform soil vapor plume beneath the AST area at the Site. ALZA conducted soil vapor extraction in the plume, removing contaminant mass and reducing residual soil gas concentrations to a maximum of 1,900 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Based on a proposed future use of the impacted area of the Site as commercial/industrial outdoor use only, Central Valley Water Board staff concurred with ERM's use of a box model for back-calculating soil gas screening levels protective of an outdoor commercial use scenario for this Site. Residual chloroform in soil vapor remaining at the Site was below the calculated screening level and therefore does not pose a significant threat to human health or the environment based on continued outdoor commercial use. ALZA recorded a Land Use Covenant (LUC) with the Solano County Recorder's office restricting the future use of the impacted portion of the Site with a requirement for a Central Valley Water Board approved soil management plan (SMP) prior to future subsurface construction or maintenance activities. A No Further Action Determination letter was issued 12 May 2023. (KC)

NO FURTHER ACTION DETERMINATION, FORMER CHROME CRAFT FACILITY, 1819 23RD STREET, SACRAMENTO, SACRAMENTO COUNTY

In 1991, Chrome Craft discovered a leak in the secondary containment and process infrastructure which housed chrome-plating dip tanks. Upon discovery, Chrome Craft repaired the leak and began investigating the extent of hexavalent chromium contamination in soil and groundwater. In 2004, Chrome Craft excavated 500 cubic

yards of contaminated soil below the dip tank locations to a depth of 18 feet, approximately the depth of first-encountered groundwater. Between 2004 and 2020, Chrome Craft periodically treated hexavalent chromium impacted groundwater with carbon amendments including MRX, a proprietary slow-release carbon compound, and cheese whey. Hexavalent chromium concentrations emanating from the site were initially observed at concentrations as high as 370,000 micrograms per liter. Upon conclusion of groundwater treatments in 2020, hexavalent chromium concentrations were consistent with or less than naturally occurring background concentrations (less than 10 micrograms per liter).

Chrome Craft used per- and perfluoroalkyl substances (PFAS) as a plating tank fume suppressant between 1993 and 2000, and promptly complied with the October 2019 State Board PFAS Order for Chrome Platers. PFAS was detected at concentrations below applicable response levels. Given that Chrome Craft's use of PFAS ceased prior to source excavation intended to remove hexavalent chromium, it is understood that a potential PFAS source area was also removed, if present. A conditional No Further Action Determination was made on 25 August 2022. Following destruction of the site's 10 monitoring wells and 17 injection wells, a final No Further Action Determination was issued on 13 June 2023.

NO FURTHER ACTION DETERMINATION, PILOT TRAVEL CENTERS – STOCKTON D.E.F. RELEASE, 1033 STOKES AVENUE, STOCKTON, SAN JOAQUIN COUNTY

In December of 2020 and while off-loading diesel exhaust fluid (DEF), a Pilot Travel Centers railcar shut-off valve seized and released approximately 17,000 gallons of DEF at an Omni-Trax railyard in Stockton. San Joaquin County Environmental Health Department responded to the scene and referred the case to the Central Valley Water Board. DEF is a urea-based mixture used to reduce emissions from semi-tractor engines. Concern over urea's potential to transform into nitrate via microbial processes in soil, known regional nitrate issues, and volume of material released supported the decision to open a site cleanup case.

Pilot Travel Center and Omni-Trax had cleanup contractors arrive at the site within hours of the release. The quick response – containment via soil berms, vacuum-truck operation, and soil excavation – vastly limited the potential migration of DEF. Pilot Travel Centers hired an environmental consultant to sample soil and groundwater up-gradient, down-gradient, and within the spill area. Resulting sample analyses showed that nitrate in groundwater samples was well below the maximum contaminant level of 10 milligrams per liter. Additionally, confirmation soil sampling indicated the source area had been properly excavated. It was determined that additional cleanup was not warranted, and, after a public comment period, the site was issued a No Further Action Determination on 27 June 2023.

NO FURTHER ACTION DETERMINATION, QUIK STOP MARKETS, 1260 GEER ROAD TURLOCK, STANISLAUS COUNTY

The property is a gas station with an outdoor covered gas dispenser and a convenience store on a paved 0.36-acre lot. The property owner conducted a soil gas investigation in 2020 and identified naphthalene, tetrachloroethene (PCE), and trichloroethene (TCE) in soil gas exceeding the Bay Area Regional Water Quality Control Board Environmental Screening Levels (ESLs) for residential scenario. These concentrations also exceeded the residential and commercial screening limits in the Low Threat Underground Storage Tank Case Closure Policy. All but one of the soil gas exceedances of naphthalene, PCE, and TCE were at depths of 15 or 25 feet below ground surface (bgs). One soil gas sample contained naphthalene at 5 feet bgs; however this location is along the southern boundary of the property, not near the convenience store building, nor the dispenser canopy, and does not present a risk to human health or the environment. The PCE and TCE concentrations observed in soil gas do not appear to be sourced from commercial activities onsite. A No Further Action Determination letter was issued on 28 June 2023. (IH)

NO FURTHER ACTION DETERMINATION, REDWOOD OIL-ROCKLIN, 4690 PACIFIC STREET, ROCKLIN, PLACER COUNTY

A release of petroleum fuel occurred beneath the Site during use of the above ground storage tank system. In January 1999, approximately 1,200 cubic yards of petroleum impacted soil was excavated and removed from the Site. Between March 2004 and August 2005, the Site's soil vapor extraction remediation system removed 8,600 pounds of petroleum hydrocarbons. Between April 2008 and February 2021, an air sparge remediation system removed dissolved phase petroleum in groundwater. Additionally, 26 vacuum truck events removed over 60,000 gallons of petroleum impacted groundwater from the Site. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. Site groundwater data indicate that the residual petroleum hydrocarbons in groundwater are unlikely to impact nearby surface water or water supply wells. Remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate. Central Valley Water Board staff concurs with RDM's recommendation for case closure. Following the monitoring well destructions and the public notification activities, Central Valley Water Board staff closed the case on 7 July 2023.

NO FURTHER ACTION DETERMINATION, SOUTHERN CALIFORNIA EDISON (SCE) FORMER MOONEY SUBSTATION, 1320 SOUTH CENTRAL STREET, VISALIA, TULARE COUNTY

The property at 1320 South Central Street in Visalia (Site) was formerly the location of a SCE electrical substation. As part of its land divestiture program, SCE conducted an environmental investigation of the Site in 2017. Using the results of this investigation, SCE identified elevated concentrations of arsenic and diesel in soil across the Site. In 2019, SCE investigated a portion of the adjacent properties to the north and south of the

Site for possible arsenic contamination. Samples from two borings on the northern property had arsenic concentrations above 12 milligrams per kilogram (mg/kg), the arsenic background concentration found in this part of California. SCE concluded these areas on the northern property required excavation. In 2022, SCE excavated areas of the Site and adjacent property with arsenic concentrations above the cleanup level of 12 mg/kg. SCE also excavated areas of the Site with diesel concentrations above the cleanup level of 96 mg/kg. Soil excavation depths ranged from 1.5 to 14.2 feet below ground surface. SCE collected confirmation soil samples from the excavation sidewalls and floor. Laboratory analysis of confirmation samples indicated all final arsenic and diesel concentrations at the Site and adjacent property were below the respective cleanup level. After soil removal was completed, SCE backfilled the excavation with clean imported fill. A No Further Action Determination letter was issued 26 June 2023.

**NO FURTHER ACTION DETERMINATION, UNION PACIFIC RAILROAD (UPRR)
LATHROP INTERMODAL FACILITY, 1000 EAST ROTH ROAD, FRENCH CAMP,
SAN JOAQUIN COUNTY**

The Site is an active rail yard that occupies approximately 134.5 acres of relatively flat terrain and is designated for commercial/industrial land use. The locomotive diesel release occurred on the southern portion of the facility along a rail spur. UPRR excavated approximately 115 cubic yards of diesel-impacted soil from the release area. Analytical results for final soil confirmation samples indicated limited residual diesel-impacted soil remaining in place at the Site. UPRR recorded a Land Use Covenant (LUC) with San Joaquin County to restrict future residential use of the area of the release and outline management procedures of any future excavation in the affected area. A No Further Action Determination letter was issued 11 May 2023. (KC)

FRESNO

**SANTA NELLA PARCEL 41, FORMER CENTRAL VALLEY PIPELINES, MERCED
COUNTY**

A release of crude oil from the former Shell Central Valley Pipeline was discovered in 2012. The pipeline carried unrefined crude oil from Central Valley oilfields to refineries in the San Francisco Bay Area. In response to the release, the discharger conducted several phases of assessment, including test pit excavation along the former pipeline alignment, soil sampling, and installation of groundwater monitoring wells. Based on site investigation results, it was determined that residual petroleum hydrocarbons in soil did not pose a threat to current or future users and therefore, remedial action was not warranted. Groundwater monitoring was conducted from 2014 to 2020. Recent groundwater monitoring results indicate that concentrations of hydrocarbons in groundwater were decreasing or stable and not migrating down-gradient of the source area. Central Valley Water Board staff concurred with a discharger demonstration that Site conditions met the closure requirements in the State Water Resource Control Board's Low Threat Underground Storage Tank Case Closure Policy. Following Central Valley Water Board staff approval of a soil management plan and the completion of

public notification of proposed case closure and monitoring well destruction, a case closure letter was issued on 12 June 2023.

REDDING

On 30 March 2023, the Central Valley Regional Board hosted a community meeting to discuss the Summer 2023 indoor air fieldwork associated with the Solano St PCE Investigation (Former Modern Cleaners) in Corning, Tehama County. Corning is a small economically disadvantaged community and this investigation work is funded by the Site Cleanup Subaccount Program. The meeting was held in the City Council Chambers and attended by property owners and representatives of the City. With support from the State Water Board Office of Public Participation, bilingual outreach was performed and translation services were available during the meeting. The goals of the meeting were to provide updates to the community regarding the PCE investigation and to ask property owners to allow sampling of their buildings' indoor air.

EMERGENCY RESPONSE ACTIVITIES

The Redding, Rancho Cordova, and Fresno offices have tasked staff in receiving and if necessary, responding to these OES spill reports. Table 1 provides a summary of spill reports received by the Central Valley Water Board's offices between 26 May and 13 July 2023.

**Emergency Response Activities Table 1
Spill Reports Received by the Central Valley Water Board's Offices
Between 26 May and 13 July 2023**

	Total Spill Reports Received	Total Spill Reports that Required No Action	Total Spill Reports that Required Follow up	Total Spill Reports that Required Further Actions
Sacramento	234	139	46	0
Redding	0	0	0	0
Fresno	181	165	47	0
Total	415	304	93	0

SPECIAL FOCUS AREAS

DELTA ACTIVITIES

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

Board staff continued to attend Steering Committee and other Delta RMP meetings to provide support for the program and implementation and for Board Resolution R5-2021-0054.

The Central Valley Water Board reviewed the FY23/24 Monitoring Workplan submitted to the Central Valley Water Board on 1 May 2023 and requested revisions. The Monitoring Workplan is an annual deliverable required by Board Resolution R5-2021-0054. Board staff and the State Water Board Quality Assurance Officer reviewed the FY23/24 Quality Assurance Project Plans and Amendments and provided feedback to the Delta RMP.

The Central Valley Water Board provided the list of relevant water quality metrics to the Delta RMP based on monitoring projects identified in the FY23/24 Monitoring Workplan.

Board staff attended the Current Use Pesticides TAC meeting on 10 July 2023 to discuss requested revisions to the Quality Assurance Project Plan. The TAC also discussed Current Use Pesticides and toxicity monitoring and reporting updates for water year 2023.

DELTA NUTRIENT RESEARCH PLAN

Board staff are implementing the Delta Nutrient Research Plan (Resolution R5 2018-0059) through special studies and coordination with the Delta Regional Monitoring Program's focus on nutrients.

- In July, Board staff conducted field sampling for cyanobacteria toxins in water and clams at three sites in the central Delta. This sampling is a continuation of the Proposition 1 grant-funded project assessing risks of cyanobacteria toxins in clams as a base of the benthic food chain in the Delta. Sampling will continue through October 2023.
- Board staff completed data analysis for a 2022 collaborative project in Stockton with partners including the Port of Stockton, the City of Stockton, Restore the Delta, Department of Water Resources, and Robertson-Bryan Inc. The project monitored nutrients, cyanotoxins, dissolved oxygen, and temperature at the Stockton waterfront and Stockton deep water ship channel. A paper focused on nutrients and cyanotoxins was submitted for journal publication.
- Board staff continued participation in the Nutrients Technical Advisory Committee.

NITRATE CONTROL PROGRAM – EARLY ACTION PLAN DRINKING WATER IMPLEMENTATION

The Salt and Nitrate Control Program (SNCP) Basin Plan Amendment with supporting Staff Report and Substitute Environmental Documentation was adopted on 31 May 2018 (Resolution R5-2018-0034). [Adoption Resolution with Final Staff Report and Basin Plan Amendment language](#) can be found on the following CV-SALTS webpage:

(https://www.waterboards.ca.gov/cvsalts/salt_nitrate_bpa/)

As required by the Nitrate Control Program, Early Action Plan (EAP) implementation to provide safe drinking water to impacted communities began on 07 May 2021. As of 28 June 2023, Priority 1 Management Zones have collectively reported the following metrics:

Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals (as of 28 June 2023)

EAP Metric	Total (all MZs)	Turlock/ Modesto	Kings	Kaweah	Tule	Chow-chilla
Initial Estimate of Impacted Wells	~13,000	>5,000	>5,000	<1,000	<1,000	<1,000
Inquiries/Interest/calls	10,138	2,035	2,088	3,206	2,700	109
Testing Applications Submitted	3,641	1,018	1,913	310	337	63
Referred to Other Programs	838	187	418	81	144	8
Eligible Applications	2,653	831	1,345	229	193	55
Not Yet Responded	728	116	548	21	33	10
Wells Tested/ Scheduled/ Known	1,730	586	740	220	142	42
Above 10 mg/L	1,012	423	338	182	57	12
Average Percent over 10 mg/L	58%	72%	46%	83%	40%	29%
Households receiving bottled water	1,115	421	428	181	67	18
Fill Station (FS) Locations	8	0	3	2	3	0
FS Average Gallons per Day	828	0	191	126	235	0
Total Households/ equivalents	1,529	421	523	244	184	18

SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)

LOWER AMERICAN RIVER BENEFICIAL USE ASSESSMENT

The Lower American River has been listed as impaired due to fecal indicator bacteria on California’s 303(d) List. SWAMP is conducting monitoring to investigate the elevated indicator bacteria. To keep the public and local agency partners informed about current conditions, SWAMP monitors swimming beaches and recreation areas along the Lower American River and mouth of Steelhead Creek. New *E. coli* results are posted to an interactive [online map](#) each week which can be viewed here:

(<https://arcg.is/1LXHmf0>)

SWAMP also coordinated with local agencies on a study to identify the sources of fecal pollution to the Lower American River. To make the most of limited resources and collect a high-resolution dataset, the study was conducted in two phases. Phase 1 of the study was completed in 2020 and targeted the 3-mile reach from Paradise Beach to Sutter's Landing Regional Park. Monitoring for Phase 2 was completed in 2022 and focused on dry weather sources in the river reach from Sutter's Landing Regional Park to the confluence with the Sacramento River.

Microbial source tracking (MST) analysis of samples with elevated *E. coli* indicated that birds are the largest and most consistent source of contamination in this section of the river. Dogs are also a source of contamination in some areas, while humans were not a significant or consistent source during the study period. More information is available in the [Phase 1 Data Summary](#)

(https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/report_summary_sheet/lar_ph1_ds.pdf).

and [Phase 2 Data Summary](#)

(https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/report_summary_sheet/lar_ph2_21.pdf).

SUMMER 2023 RECREATIONAL BENEFICIAL USE ASSESSMENTS

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using *E. coli* as an indicator of fecal pollution. Staff are developing plans for the Summer 2023 assessments, although monitoring has been delayed due to high river levels and unsafe conditions. Staff will also conduct a microbial source tracking study next year in the Squirrel and Wolf Creek watersheds in Nevada County.

[Online maps and more information on these SWAMP projects](#) are available at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2021_r_bua/).

CYANOBACTERIA AND HARMFUL ALGAL BLOOMS UPDATE

Cyanobacteria and harmful algal blooms (HABs) are a common occurrence in surface waters across California. To address this issue, a Freshwater and Estuarine Harmful Algal Bloom (FHAB) Program was developed and implemented by the State Water Resources Control Board's Surface Water Ambient Monitoring Program. The Central Valley Water Board participates in this statewide FHAB Program by investigating and responding to reports of suspected HABs. In 2021, the FHAB program released the California Water Boards' Framework and Strategy for Freshwater Harmful Algal Bloom

Monitoring (FHAB Monitoring Strategy). Board staff have begun implementing the FHAB Monitoring Strategy in the Central Valley through the development of partner monitoring efforts.

As part of the FHAB program, a [California Harmful Algal Blooms Portal](https://mywaterquality.ca.gov/habs/)

(<https://mywaterquality.ca.gov/habs/>)

was developed and is located on the California Water Quality Monitoring Council's [My Water Quality webpage](https://mywaterquality.ca.gov/index.html).

(<https://mywaterquality.ca.gov/index.html>)

The [FHAB Monitoring Strategy](https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141_FHABStrategy_FullReport.pdf) full report can be found here:

(https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141_FHABStrategy_FullReport.pdf)

And the FHAB Monitoring Strategy [Executive Synthesis](https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141_FHABStrategy_Synthesis.pdf) and [Factsheet](https://ftp.sccwrp.org/pub/download/DOCUMENTS/FactSheets/1141_FHABStrategy_FactSheet.pdf) can be found here:

(https://ftp.sccwrp.org/pub/download/DOCUMENTS/TechnicalReports/1141_FHABStrategy_Synthesis.pdf)

(https://ftp.sccwrp.org/pub/download/DOCUMENTS/FactSheets/1141_FHABStrategy_FactSheet.pdf)

The purpose of the HABs Portal is to provide readily accessible and easy-to-understand information to the public on the environmental and human health effects from HABs. Resources available include a map showing locations where HABs have been reported, fact sheets on identifying cyanobacteria blooms, and guidance on healthy habits the public can take to protect themselves and their pets from HABs. For health departments and water body managers, the portal includes guidance documents on sampling and posting advisory signs, sign templates, and information on control and treatment options.

When human or animal illnesses or deaths are reported, an interagency HAB illness team investigates each case. The team is comprised of the California Department of Public Health, the Office of Environmental Health and Hazard Assessment, the State Water Board, and the California Department of Fish and Wildlife. Using case specific information, the team determines whether each case may have been caused by HABs or whether the incident was due to other causes. Cases that are suspected to be HAB related are reported to the Centers for Disease Control and Prevention (CDC) [One Health Harmful Algal Bloom System](https://www.cdc.gov/habs/ohhabs.html).

(<https://www.cdc.gov/habs/ohhabs.html>)

More information on how freshwater [HAB related illness](#) tracking in California can be found at:

(https://mywaterquality.ca.gov/habs/hab-related_illness.html)

CENTRAL VALLEY CYANOBACTERIA AND HARMFUL ALGAL BLOOMS

Cyanobacteria and HABs typically occur from summer through late fall when temperatures are at their highest. However, blooms can occur in the winter and spring, especially if temperatures are mild and nutrients are introduced from rainfall runoff.

A summary of HABs reported as of 7 July 2023 is provided in Cyanobacteria Table 1 below.

HABs Table 1. Bloom Summary of active advisories (as of 7 July 2023)

Category	Count
Number of locations with active caution advisories ¹	8
Number of locations with active warning advisories ¹	2
Number of locations with active danger advisories ¹	2

Table Notes:

¹ The FHAB Program defines an active advisory as one with a confirmed observation within the last 30 days, in this case, all observations since 7 June 2023. Advisory levels are based on the FHAB Trigger levels for signage posting. This [guidance for planktonic blooms](#) is found here:

(https://mywaterquality.ca.gov/habs/resources/habs_response.html#posting_guidance)

and for [benthic blooms](#) is found here:

(https://mywaterquality.ca.gov/habs/resources/benthic_posting_guidance.html)

GRANT OVERSIGHT

CLEAN WATER ACT §319(H) NONPOINT SOURCE GRANT SOLICITATION

Approximately \$4 million each year is awarded to the Water Boards through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. [For more information, please visit the NPS website](#) here:

(www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml)

CLEAN WATER ACT §319(H) NONPOINT SOURCE ON-GOING GRANTS

IMPLEMENTATION OF BEST MANAGEMENT PRACTICES IN THE DELTA: A COMPREHENSIVE PESTICIDE MANAGEMENT PROJECT TO IMPROVE WATER QUALITY (\$399,407)

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the generation and transport to waterbodies of agricultural chemicals, sediment, and nutrients from sites within the Sacramento-San Joaquin Delta. (Closing 2/28/2024)

SOUTH FORK BATTLE CREEK SEDIMENT REDUCTION AND WATER QUALITY ENHANCEMENT PROJECT (\$603,654)

Tehama County Resource Conservation District (TCRCD) will implement erosion and sediment control measures for a 3.5-mile section of Ponderosa Way in Eastern Tehama County, north of State Route 36E. The project will minimize discharges of sediment to South Fork Battle Creek. (Closing 2/28/2023)

BUTTE CREEK CAMP FIRE POST-FIRE RECOVERY PROJECT (\$785,524)

The Butte County Resources Conservation District (BCRCD) will implement erosion and controls measures for a 2.4-mile section of Centerville Road in central Butte County, north of Butte Creek within the perimeter of the Camp Fire. The project will implement road upgrades at twenty-four erosion sites which will reduce discharges of sediment to Butte Creek. (Closing 8/31/2024).

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS

TITLE OF GRANT AND AMOUNT

UPPER BIDWELL PARK ROAD AND TRAIL SEDIMENT SOURCE ASSESSMENT AND REDUCTION PROJECT (\$706,352)

The purpose of this project is to address the discharge of sediment from Upper Bidwell Park roads and trails into Big Chico Creek Watershed through the implementation of a Sediment Source Assessment and Treatment Plan. The grant agreement was executed in early July 2020. Implementation of sediment reduction road treatments on Upper Bidwell Park Road began in August 2022 and was completed in October 2022. As part of the grant a Road Inventory and Sediment Reduction Action Plan was also prepared and submitted in March 2023. On 15 May 2023 the grantee submitted a Draft Final Project Report which summarizes grant tasks and deliverables. (Closed 6/30/2023)

KING FIRE SIGNIFICANT EXISTING AND POTENTIAL EROSION SITES (SEPES) (\$266,366)

The purpose of the project is to fix select priority Significant Existing and Potential Erosion Sites (SEPES) on the Eldorado National Forest (ENF) that were identified on haul routes associated with timber sales implemented under the King Fire Restoration Project (KFRP). Stream crossing structure replacement, road drainage improvements, road reconditioning, armoring of structures, rebuilding of fill slopes, and landslide removal are among the work expected. Funding will be used to replace multiple large failed and at-risk stream crossing structures with an emphasis on designing crossings to accommodate a 100-year event, plus associated sediment, and debris. As of December 2022, proposed site work has been completed. The grantee is currently preparing a Final Project Summary Report. (Closing 2/28/2024)

OUTREACH

*Denotes “Outreach to Disadvantaged Communities” or “Outreach to Tribes.”

**Denotes “Outreach from UST/Site Cleanup Staff”

***Denotes Both

Racial Equity Outreach

In 2022, the Water Boards launched a program to train staff to become Racial Equity Trainers. Two Central Valley Water Board staff (Maxine Cottrell and Rebecca Asami) are part of a group of 10 statewide Board staff that completed the certification training by facilitating a three-part Advancing Racial Equity at the Water Boards training series. The Advancing Racial Equity course was created by certified trainers and Racial Equity experts, and is available to all personnel in the CalEPA boards, departments and offices. The course provides staff with the opportunity to engage with peers who are exploring and developing a shared understanding of fundamental racial equity concepts, a model of change to become an antiracist organization, and an overview of racial equity tools. In June 2023, Maxine Cottrell of the Rancho Cordova office and Rebecca Asami of the Fresno office facilitated the second 9-hour virtual training session. A third in-person training session will be held later this year.

***On 10 April 2023, Site cleanup staff issued a 60-day public notice of proposed case closure for the Shaibi Market case at 17017 Brannon Avenue, Dos Palos, Merced County. Staff mailed the notice to the owners and occupants of the Site property and the surrounding properties. Staff posted the notice on the Central Valley Water Board UST-Decisions Pending & Case Closures website. Staff did not receive comments from the public. (MSP)

***On 21 April 2023, Site Cleanup staff issued a 60-day public notice of proposed case closure for the Shell – Ramos Oil Dixon case at 1900 North 1st Street, Dixon, Solano County. Staff mailed the notice to the owners and occupants of the Site property and the surrounding properties. Staff posted the notice on the Central Valley Water Board

UST-Decisions Pending & Case Closures website. Staff did not receive comments from the public. (BJL)

***On 24 April 2023, Site Cleanup staff issued a 60-day public notice of proposed case closure for the Roek Construction case at 102 South Wilson Way, Stockton, San Joaquin County. Staff mailed the notice to the owners and occupants of the Site property and the surrounding properties. Staff posted the notice on the Central Valley Water Board UST-Decisions Pending & Case Closures website. Staff did not receive comments from the public. (MWM)

On 4 May 2023, Kate Sjoberg an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III Meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry, and the public to work together to evaluate, understand, communicate, plan, and provide training for emergency response incidents resulting from chemical hazards within the Region. One of the Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee. This month's meeting discussed Cal OES grant updates, upcoming California Specialized Training Institute (CSTI) and other regional trainings. This quarter's meeting also included a presentation by Juan Garcia with the California Department of Public Health, Radiological Health Branch providing and overview of their department's Radiological Operation Support Specialist (ROSS) program. This month's meeting also discussed membership recruitment for open member positions on the committee. Lastly participating agencies in attendance also provided brief agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

***On 8 May 2023, Site Cleanup staff issued a 60-day public notice of proposed case closure for the Buggy Bath case at 2210 G Street, Merced, Merced County. Staff mailed the notice to the owners and occupants of the Site property and the surrounding properties. Staff posted the notice on the Central Valley Water Board UST-Decisions Pending & Case Closures website. Staff did not receive comments from the public. (AMB)

*On 25 May 2023, Adriana Ross virtually attended the Blue-Ribbon Committee for the Rehabilitation of Clear Lake bi-monthly meeting which is formed by 15 members which includes representatives from tribes, Lake County, UC Davis, and the Central Valley Water Board.

**On 17 May 2023, Geoff Rader participated in the Aerojet Superfund Cleanup Site Community Advisory Group meeting. Geoff provided a summary of Aerojet's *2023 Update, Short-Term Water Replacement Contingency Plan*, which presents Aerojet's plans to replace any water supply lost due to contamination.

On 25 May 2023, Cannabis Program staff hosted the tenth outreach event of FY 22/23. Staff presented on requirements of the Cannabis Policy.

On 31 May 2023, J.J. Baum, Kristi Shelton, and Kyle Cockerham attended a public meeting in Lincoln to answer questions related to the ongoing cleanup efforts at the Beale Air Force Base Former Titan 1A Missile Facility. The United States Army Corps of Engineers (USACE) gave a presentation in the Sun City Orchard Creek Ballroom outlining the Titan 1A project history and upcoming events. Water Board staff handed out a fact sheet in the lobby and answered questions from the public.

On 31 May 2023, George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in the May 2023 Sierra Nevada Conservancy (SNC) Board Tour: Dixie Fire Recovery & Revitalization. The tour focused on Dixie Fire related recovery and revitalization projects located within Plumas County that were funded by SNC grant programs. The first tour stop included a stop at Collins Pines property near Chester to discuss reforestation efforts by private industry. The second stop was in downtown Greenville to highlight recovery and rebuilding activities that were being conducted that were utilizing cross laminated timber and other fire hardening construction techniques. The last stop on the tour was at the Crescent Mills Wood Utilization Campus to discuss salvage logging and milling operations at the facility.

In June 2023, Walter Floyd responded to questions from a consultant representing the Sacramento River Joint Water Protection Program regarding the effluent from the McClellan Groundwater Treatment Plant. The questions were primarily focused on PFAS in the effluent, but also included questions on hexavalent chromium, 1,2,3-trichloropropane, perchlorate, and 1,4-dioxane. The consultant was directed to the GeoTracker website where results of treatment plant effluent sampling had been uploaded.

*On 8 June 2023, Adriana Ross virtually attended the Office of Land and Emergency Management (OLEM) Environmental Justice Action Update, Virtual Community Engagement Session from EPA. OLEM just release its final "EJ Action Plan: Building Up Environmental Justice in the EPA's Land Protection and Cleanup Programs". The Plan highlights projects, tools, and practices to be applied to various land pollution prevention and cleanup programs to be used by underrepresented communities and Tribal Nations.

*On 9, June 2023, Adriana Ross attend in person a Sierra Miwok Tribal Celebration of the 25th Anniversary of Cultural and Sacred Site. Many Tribal Nation representatives attended this event and was organized by the Southern Sierra Miwuk Nation.

*On 13 June 2023, Adriana Ross virtually attended the monthly IVAN Fresno Tacks Force Meeting.

On 15 June 2023, George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Clear Creek Technical Team (CCTT) virtual meeting. The CCTT team is generally comprised of representatives from various

Federal and State agencies, and regional resource conservation districts. The purpose of the CCTT is to facilitate the implementation of the Central Valley Project Improvement Act (CVPIA) and CALFED Bay-Delta Program (CALFED) restoration actions to improve salmon and steelhead habitat and the ecosystem on which these species depend on within Clear Creek. At this month's meeting participants provided updates on the watershed's fisheries, restoration projects, flow and temperature operations, and proposed gravel augmentations. In addition, Ryan Schaefer with the United States Fish and Wildlife Service provided an overview of his master's thesis which focused on predicting patterns of spawning use by spring Chinook Salmon in Clear Creek.

*On 17 June 2023, Adriana Ross, Executive Officer Patrick Pulupa, and Board Member Denise Kadara virtually attended the State Water Board Forum on Climate and Racial Equity.

*On 20 June 2023, Adriana Ross virtually attended the EPA Environmental Justice Community Engagement.

*On 22 June 2023, Adriana Ross virtually attended the IVAN Tulare Task Force Meeting.

*On 27 June 2023, Site Cleanup staff issued a 60-day public notice for the proposed case closure of the Alamos Food Mart & Motel case at 36010 South Lassen Avenue, Huron, Fresno County. The notice was mailed to the parties in the vicinity of the Site, record owners of fee title, municipal water districts, agencies with authority to issue building permits, and other interested parties. The Public Notice has been posted on the Central Valley Water Board website UST Decisions Pending & Case Closures webpage and uploaded to GeoTracker (MLE).

On 29 June 2023, Cannabis Program staff hosted the eleventh outreach event of FY 22/23. Staff presented on Road Design.

On 29 June 2023, Harihar Nepal presented in Yolo County for the twelfth Cannabis Program outreach event of FY 22/23. Staff presented on General Order definitions and Change of Information Request Forms.

On 30 June 2023, Janis Cooke attended a quarterly workgroup meeting on status of special studies by Dept. Water Resources and US Bureau of Reclamation on impacts of water exports on hydrology and salinity in the South Delta.

On 3 July 2023, Site Cleanup staff issued a 60-day public notice of the proposed case closure for Sierra Trading Post-Buckhorn Station case at 26632 Hwy 88, Pioneer, Amador County. The Responsible Party's consultant mailed the notice to local agencies and to the owners and occupants of the Site property and the surrounding properties.

Staff posted the notice on the Central Valley Water Board UST-Decisions Pending & Case Closures website. (Lopez)

*On 20 July 2023, Jennifer LaBay, Lauren Leles, and Adriana Ross attended and participated in-person in a panel discussion during the Water Board's Joint Racial Equity and Tribal Coordinator's Roundtable. This was a special event during the annual Tule Boat Festival in Clear Lake where tribal representatives from Big Valley Band of Pomo Indians, Robinson Rancheria, and Habematolel discussed their efforts to save the Clear Lake Chi and associated lessons learned from their collaboration with the Water Boards.

*On 26 July 2023, Meredith Howard, Lauren Leles, and Janaé Bonnell met at the Shingle Springs Rancheria to discuss the background of our Region's Tribal Beneficial Uses designation project and discuss steps needed to begin designating waterbodies with TBUs.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – 1 MAY 2023 – 30 JUNE 2023

PROMOTIONS

Angela Llaban – SR ENV SCI (SUP)

NEW HIRES

Alexander Watkins – SCIENTIFIC AID

Dana Shultz – ENV SCIENTIST

Drew Lewis – SCIENTIFIC AID

Natalie Petzak – SCIENTIFIC AID

Jinwei Lu – SCIENTIFIC AID

Mariana Estrada – WATER RES CNTRL E

Margaret Driver – SCIENTIFIC AID

Rebecca Pesut – SCIENTIFIC AID

RETIREMENTS

Eric Rapport – SR ENGRG GEOLOGIST (SPEC)

Scott Mills – BUSNS SVS A SP

SEPARATIONS

Kelly Boyle – ENV SCIENTIST

Hossein Aghazeynali – WATER RES CNTRL E

Nathan Cullen– TITLE ENV SCIENTIST

Relson Deo – SCIENTIFIC AID

Sean Agarwal – ENV SCIENTIST

Stacey Alexander – ENV SCIENTIST

Zaira Lopez – ENV SCIENTIST

SUMMARY OF POSITIONS

Total Authorized Positions: 280.7

Total Temporary Positions: 23.0

Total Vacant Positions: 26.0

Sacramento

Authorized Positions: 152.0

Temporary Positions: 9.0

Vacant Positions: 11.0

Fresno

Authorized Positions: 79.0

Temporary Positions: 8.0

Vacant Position: 9.0

Redding

Authorized Positions: 49.7

Temporary Positions: 6.0

Vacancies: 6.0

TRAINING UPDATES – 1 MAY 2023 – 30 JUNE 2023

Class Title	Number of Attendees
16-Hour HAZWOPER	1
2022/23 ASBOG Exam Review Course Webinars	1
24-hour HAZWOPER	11
40-hr HAZWOPER Mandatory Add-On	8
8-Hour HAZWOPER Refresher	21
Advancing Racial Equity at the Water Boards	7
Albamarle Mercury Remediation Symposium	2
American Heart Association (AHA) Heartsaver CPR AED	4
American Heart Association (AHA) Heartsaver First Aid	1

Class Title	Number of Attendees
Asking Effective Questions & Listening	1
Basic Forest Practice Training	3
CA Leadership Academy: Supervisor Development Program	2
'Can we talk...?': An Introduction to the Complexity of Communication	4
Cannabis Awareness Training	2
Coaching and Mentoring	2
Conducting Effective Meetings	3
Cornerstone Learning Management System	150
COVID 19 Awareness	14
Developing your Individual Development Plan	3
Effective Listening in the Workplace: The Key to Positive Relationships, Productivity, and Satisfaction	3
Field Safety Training	3
From Managing Self to Managing Others	1
Intermediate R for Water Resources Data Science: Increasing Your Efficiency with Reproducible Workflows	3
Interpersonal Skills	1
Introduction Project to Management	7
Introduction to Watershed Assessments	5
Introductory Public Speaking	1
Mastering Grammar	6
Quality Assurance: General Quality Assurance 101	2
So You Want to be a Supervisor	3
Team Motivation: Engage and Energize the Workplace	2
Verbal Judo	1
Working and Thriving in Complex Organizations	7

FISCAL UPDATE

A fiscal update cannot be provided at this time due to the Water Board's implementation of the Fi\$Cal accounting system. This information will be provided once budget reports become available.

CONTRACTS

Operational Support Services

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
20-012-150	Capitol Helicopters	Helicopter aerial surveillance services (Rancho Cordova office – SB 901 funds)	6/18/2021	6/30/2023	\$60,000
20-072-150	Air Shasta Rotor & Wing, Inc.	Helicopter aerial surveillance services (Redding office – SB 901 funds)	6/15/2021	6/30/2023	\$95,000
22-025-150-1	Pitney Bowes	Postage Machine Maintenance and Service (Rancho, Redding & Fresno)	7/1/2022	6/30/2024	\$11,815.40
22-026-150	Department of Water Resources	Drone Aerial Surveillance (Rancho Cordova Office)	7/1/2022	6/30/2025	\$59,999.60

Water Quality Study/Planning

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	12/1/2020	11/30/2023	\$250,000
21-026-150-1	United States Geological Survey	To study the occurrence, distribution, and sources of Sacramento Splittail deformities believed to be caused by selenium in the San Joaquin River, Sacramento River, and Delta system.	9/20/2021	3/31/2024	\$100,000
22-028-150	Department of Water Resources	Support for Sacramento Water Coordinated Monitoring	10/1/2022	9/30/2027	\$875,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
23-005-150	TBD	NPS Training Module Development	7/1/2023	6/30/2026	\$200,000
23-007-150	Regents of UCCE Fresno	Assist small-scale, diversified, and socially disadvantaged farmers in Fresno County with compliance for the Irrigated Lands Regulatory Program (ILRP)	7/1/2023	6/30/2026	\$149,998

FUTURE BOARD ACTIVITIES

The following are significant Board meeting actions anticipated for the next three Board meetings. This is not a complete listing of all Board meeting items. This listing is tentative and subject to change for many reasons. The listing is intended to give a longer-range view of planned Regional Board activities per program.

OCTOBER 2023 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Bogle Winery (Revised WDRs)
- Redding Regional Septage (Revised WDRs)
- Sonora Regional WWTF (Revised WDRs)

NPDES PERMITTING

- American Valley CSD WWTP Permit Renewal
- Bear Valley Community Services District WWTF Permit Rescission (placed under WDRs)
- City of Colfax WWTP Permit Rescission (placed under Municipal General Order)
- City of Jackson WWTP Permit Rescission (placed under Municipal General Order)
- City of Red Bluff WWTP Permit Renewal
- Cutler-Orosi Joint Powers Wastewater Authority WWTF Rescission (Placed under WDRs)
- Sacramento Regional WWTP Permit Amendment

DECEMBER 2023 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- California Olive Ranch – Atrios (Revised WDRs)
- Dinuba WWTF (Revised WDRs)
- Low Threat Waiver for Specific Types of Discharge (Revised)
- Sierra Nevada Cheese (Revised WDRs)

NPDES PERMITTING

- Calaveras County Water District, Forest Meadows WWTP Permit Renewal

FEBRUARY 2024 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Barsotti Fruit Company (Revised WDRs)
- City of Lemoore and Leprino Foods, Stone Ranch Property (Revised WDRs)

NPDES PERMITTING

- City of Clovis WWTF Permit Renewal
- City of Dunsmuir WWTP Permit Renewal
- City of Lincoln WWTF Permit Renewal
- Ironhouse Sanitary District WWTF Permit Renewal
- San Andreas Sanitary District WWTP Permit Renewal
- Yuba City WWTF Permit Renewal

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Bear Valley CSD WWTF (Revised)
- Boundary Bend Olives (Revised)
- CDCR Mule Creek State Prison (Revised)

- City of Lone Tertiary Treatment Plant (Revised)
- California Dairies Inc., Tipton Milk Processing Facility (Revised)
- City of Arvin WWTF (Revised)
- Fowler Packing (Revised)
- General Order for Medium to Large Domestic Wastewater Treatment Facilities (New)
- General Order for Food Processors (New)
- General Order for Nut Hullers & Processors (New)
- Morning Star Packing Company (Revised)
- Pacific Coast Producers (Revised)
- Rabbo Bros. (Revised)
- Teichert Hallwood (Revised)
- Teichert Vernalis (Revised)
- Teichert Woodland (Revised)
- Turner Road Vintners (Revised)
- Tucson Ridge Development WWTF (New)
- Ventura Coastal Corporation (Revised)
- Woodbridge Winery (Revised)

NPDES PERMITTING

- City of Brentwood WWTP Permit Renewal
- City of Portola WWTP Permit Renewal
- City of Rio Vista Beach WWTF Permit Renewal
- Shasta CSA #17 Cottonwood WWTP Permit Renewal
- SPX Marley Cooling Technologies Permit Renewal

ATTACHMENT A

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – May and June 2023

Spill Cause	Count of Spill(s)	Percent (%)
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	1	1.6%
Debris-Wipes/Non-Dispersables	1	1.6%
Operator Error	1	1.6%
Debris from Construction	2	3.1%
Debris from Lateral	2	3.1%
Other (specify below)	2	3.1%
Pipe Structural Problem/Failure	4	6.3%
Grease Deposition (FOG)	10	15.6%
Debris-General	19	29.7%
Root Intrusion	22	34.4%
Grand Total	64	100.0%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – May and June 2023

Office	Category 1	Category 2	Category 3	Total
5F	0	2	2	4
5R	0	0	0	0
5S	6	1	53	60
Total	6	3	55	64

- Category 1:** Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee’s sanitary sewer system failure or flow condition that:
- Reach surface water and/or reach a drainage channel tributary to a surface water; or
 - Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

ATTACHMENT A

Category 2: Discharges of untreated or partially treated wastewater of 1,000 gallons or greater resulting from an enrollee’s sanitary sewer system failure or flow condition that do not reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly.

Category 3: All other discharges of untreated or partially treated wastewater resulting from an enrollee’s sanitary sewer system failure or flow condition.

Sanitary Sewer Overflow (SSO) Spills (DETAILS) – May and June 2023

REGION	AGENCY	Collection System	Spill Event ID	Spill Category	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	El Dorado Irrigation District	Deer Creek CS	888265	Category 1	DC-2023-05-10	El Dorado	Yes	11597	11597	5/11/23	Other (specify below)
5S	Placerville City	Hangtown Creek CS	888189	Category 1	2785 Coldsprings Rd. Placerville Ca. 95667	El Dorado	Yes	950	900	5/9/23	Debris-General
5S	Placerville City	Hangtown Creek CS	888262	Category 1	3152 Gilmore St. Placerville Ca. 95667	El Dorado	Yes	750	700	5/11/23	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	888193	Category 1	326796	Sacramento	Yes	294	180	5/5/23	Root Intrusion
5S	Sutter Creek City	Sutter Creek CS	888236	Category 1	Line Segment P-382 at 251 Oro Madre Way approximately 90 feet South of MH 50	Amador	Yes	14400	13900	5/13/23	Pipe Structural Problem/Failure
5S	Yuba City	Yuba City CS	888498	Category 1	792 Aisley Ave	Sutter	Yes	435	285	5/28/23	Root Intrusion