

EXECUTIVE OFFICER'S REPORT

11 AUGUST 2022

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

PATRICK PULUPA, EXECUTIVE OFFICER



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SUCCESS STORIES

IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS

Under the Irrigated Lands Regulatory Program (ILRP), a management plan is triggered when water samples from a monitoring site are tested, and a constituent has two or more exceedances of the appropriate water quality limit within a 3-year period. This requires development of a management plan by the Coalition and implementation of improved management practices by member growers. Implementation is deemed successful when the Coalition demonstrates: (1) at least three years of compliance with receiving water limitations; (2) documentation of third-party education and outreach to growers; (3) documentation of implementation of improved management practices; and (4) demonstration of management practice effectiveness.

SACRAMENTO VALLEY WATER QUALITY COALITION

On 7 July 2022, the Executive Officer approved completion of a chlorpyrifos surface water management plan in Gilsizer Slough for the Sacramento Valley Water Quality Coalition (Coalition). The implemented management plan successfully eliminated the water quality problem caused or influenced by discharge of agricultural pollutants into surface receiving waters. The Coalition held multiple member meetings and conducted targeted outreach to individual growers to provide general and site-specific guidance regarding practices to protect water quality. Examples of increased practices implemented by growers include reducing use of chlorpyrifos; following pesticide application practices; implementing cultural practices to manage sediment and erosion; implementing irrigation management to reduce runoff water volume; and maintaining buffer between treated areas and water bodies. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

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 generally 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

COULTERVILLE GENERAL STORE 5000 MAIN STREET, COULTERVILLE, MARIPOSA COUNTY

In May 1996, Tim Jenkins' consultant removed two gasoline USTs and dispensers from a closed gas station and general store. Mr. Jenkins' consultant completed investigations between 1996 and 2001. In 2005, Mr. Jenkins' consultant excavated 400 tons of impacted soil with approximately 500 pounds of petroleum. Between 2006 and 2020, Mr. Jenkins' consultant completed additional plume delineation, monitoring, and soil gas sampling. In 2020, Mr. Jenkins' consultant evaluated the case to the *Low-Threat Closure Policy* and concluded the case met closure criteria. Central Valley Water Board staff concurred and completed public notice. The consultant destroyed the monitoring wells, removed the waste, and submitted an associated report on 21 June 2022. Central Valley Water Board staff closed the case on 30 June 2022. (BJL)

E-Z SERVE #100972 741 2ND STREET, BRENTWOOD, CONTRA COSTA COUNTY

The responsible party (RP) for the former gas station removed three USTs in 1989. The RP performed an SVE pilot test in 1992 and an AS/SVE pilot test in 1994. In 2006, the RP removed 3,000 pounds of vapor-phase petroleum using a mobile DPE remediation system. Additional plume assessment continued until 2020. In January 2021, the consultant evaluated the case for closure under the *Low-Threat Closure Policy*. Central Valley Water Board staff and State Water Board Expedited Claim Account Program (ECAP) staff concurred with closure. Following the public notification and well destruction activities, Central Valley Water Board staff closed the case on 30 June 2022. (VJF)

CALIFORNIA HIGHWAY PATROL ACADEMY #2 3500 REED AVENUE, WEST SACRAMENTO, YOLO COUNTY

The Site is a California Highway Patrol Academy that currently uses two 10,000-gallon gasoline USTs and a fuel dispenser island. In 2001, a gasoline release occurred from one of two former 10,000-gallon USTs. The Academy removed both former USTs in 2003. Kleinfelder completed investigations between 2001 and 2016 to evaluate the extent of the MTBE in groundwater from the petroleum release. In April 2019, Kleinfelder attempted to remediate the MTBE in groundwater near the former USTs using Modified Fenton's Reagent. Penecore Drilling injected a total of 4,500 gallons of Modified Fenton's Reagent into twelve injection locations around the former USTs. The concentration of MTBE initially decreased after the remediation injections; however, groundwater in source area still contained MTBE between 1,000 µg/l and 2,000 µg/l. Kleinfelder estimated the remaining MTBE plume in groundwater to be approximately

100 feet wide, 4,000 feet long, and decreasing in areal extent. Kleinfelder did not identify sensitive receptors within 2,000 feet downgradient of the estimated extent of the MTBE plume. Kleinfelder concluded that the Site met the criteria for closure under the *Low-Threat Closure Policy* and posed a low threat to human health, safety, and the environment. Kleinfelder concluded and Central Valley Water Board staff concurred that the residual petroleum in soil and groundwater is unlikely to pose a risk to current and future receptors and residual petroleum will continue to degrade within a reasonable timeframe. Central Valley Water Board staff closed the case on 13 June 2022. (MJD)

**SAN JOAQUIN COUNTY RECORDS CENTER
630 NORTH CALIFORNIA STREET, STOCKTON, SAN JOAQUIN COUNTY**

The Site's former 375-gallon UST system was abandoned in place. The property is currently utilized as the San Joaquin County Records Center and land use is not expected to change. Between 2011 and 2020, Condor investigated the extent of the release. Petroleum hydrocarbons are below *Low-Threat Closure Policy* criteria in soil and groundwater. Residual petroleum hydrocarbons in groundwater are expected to continue to attenuate naturally without migrating beyond the current extent. Surface water bodies are not located within 1,000 feet of the Site property, and the closest supply wells to the Site are located approximately 1,730 feet east of the Site property. Therefore, the remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the State as they attenuate. Additionally, the Site meets the criteria for case closure as outlined in the *Low-Threat Closure Policy*. Active remediation or additional monitoring of the unauthorized release of petroleum hydrocarbons to the groundwater are not warranted. Central Valley Water Board staff concurred with Condor's recommendation for regulatory closure as a low-risk Site and closed the case on 13 June 2022. (VJF)

**OCAMPO PROPERTY
821 SOUTH WILSON WAY, STOCKTON, SAN JOAQUIN COUNTY**

The Site is a former auto repair facility. In 1985, Electro Delta removed a 550-gallon gasoline UST. The Site is currently a vacant, undeveloped parcel. Between 1998 and 2021, the property owner investigated the extent of the release. Between 2011 and 2015, the property owner used a soil vapor extraction and air sparge remediation system to remove 11,700 pounds of petroleum from the subsurface. The remaining petroleum concentrations in soil and groundwater are below *Low-Threat Closure Policy* criteria. Based on declining concentration trends and a stable to shrinking plume, residual petroleum hydrocarbons concentrations are expected to continue to attenuate naturally without migrating beyond the current extent. Surface water bodies and water supply wells are not located within 250 feet of the Site property, and the closest supply well to the Site is located approximately 1,500 feet east of the Site. Therefore, the remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the State as they attenuate. Additional active remediation or monitoring related to the unauthorized release of petroleum hydrocarbons to the groundwater are not warranted. Central Valley Water Board staff concurred with the

consultant's recommendation for regulatory closure as a low-risk Site. Staff closed the case on 13 June 2022. (VJF)

**MERCED CO SPRING FAIR
360 D STREET, LOS BANOS, MERCED COUNTY**

The property is a county maintenance facility. In 1992, the county removed a 550-gallon UST. Between 1992 and 2020, the county investigated the extent of the petroleum release. In 2009, the county excavated 1,000 cubic yards of impacted soil from the former UST location. In 2015 and 2016, Stantec operated a soil vapor extraction remediation system that removed 3,500 pounds of vapor-phase petroleum from the subsurface. Stantec concluded and Central Valley Water Board staff concurred that the case met the *Low-Threat Closure Policy*. Staff closed the case on 13 June 2022. (MSP)

**THE WILLIS PROPERTY
110 PORTER STREET, DIXON, SOLOANO COUNTY**

The Willis Property is a former petroleum facility and currently an auto repair facility. A release of petroleum fuel occurred at the Site. In November 1993, Ken Willis removed four USTs from the Site property: one 6,000-gallon gasoline UST, two 4,000-gallon gasoline USTs, and one 280-gallon waste oil UST. Mr. Willis also removed associated product piping. Between 2002 and 2020, Mr. Willis, his consultants, and State-hired EAR consultants installed/advanced a total of 12 groundwater monitoring wells, 9 remediation wells, 14 soil gas monitoring wells, and 14 soil and groundwater borings to assess and cleanup the Site release. EAR consultants performed high vacuum dual phase extraction (HVDPE) remediation at the Site, which removed more than 26,500 pounds of hydrocarbons from the subsurface. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low-Threat Closure Policy*. Tetrachloroethylene (PCE) soil gas concentrations exceeded residential, but not commercial, screening criteria. The source of PCE is unknown. Based on the data, the source is unlikely to be from the waste oil UST. Staff closed the UST case on 31 May 2022. (AMB)

FRESNO

**FAMILY EXPRESS FOOD AND LIQUOR
4205 EAST BUTLER AVE., FRESNO, FRESNO COUNTY**

Family Express Food and Liquor is currently a commercial fueling station and convenience store. In February 2004, analytical results of soil samples collected during a dispenser pan upgrade, soil samples indicated the presence of petroleum hydrocarbons. Further investigation demonstrated that the petroleum hydrocarbon contamination had migrated to groundwater at a depth of approximately 100 feet below ground surface and 20 feet laterally in soil. Groundwater investigation defined the groundwater contaminant plume extending 120 feet north of the source area.

Remediation at the Site included SVE operation from October 2012 through November 2019 and removed an estimated 3,174 gallons (19,680 pounds) of volatile petroleum hydrocarbons.

Central Valley Water Board staff concluded the Site was eligible for closure and a Notice inviting public comment was issued in December 2021. A report documenting monitoring and remediation well destruction was received in March 2022. Any remaining petroleum hydrocarbons should continue to naturally attenuate/degrade and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. All technically and economically feasible cleanup has been completed. Staff closed the case on 20 May 2022 (MLE).

**MESA MARIN CHEVRON
11101 STATE HIGHWAY 178, BAKERSFIELD, KERN COUNTY**

The Site is an operating convenience store with retail fuel sales. A release was discovered during January 2018 when four single walled USTs, dispensers, and associated piping were removed. Soil sample analytical results indicated gasoline and diesel constituents beneath the USTs and dispensers. Ethylbenzene and naphthalene concentrations exceeded screening level criteria for Direct Contact and Outdoor Air Exposure contained in the *Low-Threat Closure Policy*. Approximately 450 cubic yards (550 tons) of soil containing an undetermined hydrocarbon mass was excavated to 10 feet below ground surface during late January and February 2018 and transported to a licensed waste facility for disposal. Confirmation soil sampling indicated that the areas with concentrations exceeding *Low-Threat Closure Policy* criteria were removed. Extent and contaminant mass were determined by investigations from March 2019 to March 2021. The consultant estimated that 1,516 gallons (9,400 pounds) and 543 gallons (3,800 pounds) of source mass, as TPHg and TPHd, respectively, would continue to degrade naturally. The release lacked the mobility and mass to migrate to groundwater. Staff concluded that the case meets *Low-Threat Closure Policy* criteria. Remaining petroleum hydrocarbons would not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. All technically and economically feasible cleanup has been completed. Staff closed the case on 29 June 2022 (JDW).

REDDING

**ANDERSON CHEVRON
CASE #450322, SHASTA COUNTY**

The Site has been an active gasoline station since at least 1985 when three existing double-walled fiberglass USTs were installed under Shasta County Environmental Health Division (SCEHD) oversight. In 1989, the Discharger installed five monitoring wells; all hydrocarbon constituents in soil and groundwater at that time were found to be below reporting limits. In mid-2003, MTBE was reported in groundwater in two additional monitoring wells installed on the Anderson Chevron property as part of an investigation on an adjacent property. SCEHD referred the case to the Central Valley Water Board in July 2004. Between 2004 and 2021, the Discharger performed assessment activities

including installation and monitoring of ten groundwater monitoring wells. The Site and most nearby residences are connected to the City of Anderson public water supply. However, the adjacent residence northwest of the Site obtains its water supply from a domestic well. This domestic well was sampled as part of the groundwater monitoring program conducted between 2005 and 2021. Remedial activities during this period included two separate ozone injection remediation events. An estimated 2.2 pounds of MTBE were removed by ozone sparging and natural attenuation. After the second ozone injection event in April 2020, the Discharger continued groundwater monitoring for four quarters to assess any rebound of MTBE concentrations in groundwater. Concentrations remained within the limits defined by the criteria of the *Low-Threat Closure Policy*. Staff closed the case in June 2022.

**CHURN CREEK CHEVRON
CASE #450284, SHASTA COUNTY**

The Site has been an active gasoline station since the 1960s. In December 1998, an unauthorized petroleum release was discovered during the removal of six single-walled USTs under Shasta County Environmental Health Division (SCEHD) oversight. The results of the soil and groundwater analyses were non-detect for all constituents, and SCEHD issued an UST case closure letter in June 2000.

In December 2011, Central Valley Water Board staff reopened the case based on elevated levels of petroleum constituents reported in groundwater beneath the adjacent property located to the south. Between 2014 and 2021, the Discharger performed assessment activities. The Site's drinking water supply was provided by an onsite domestic well until, in September 2020, the Discharger connected the Site to the City of Redding municipal water system and decommissioned the well. The State Water Resources Control Board Expedited Claim Account Program (ECAP) provided technical assistance and funding for the well destruction and hookup to the municipal water supply.

In early 2021, the Discharger performed a 60-day mobile high-vacuum dual-phase extraction (HVDPE) event to remediate petroleum in the groundwater. Approximately 4,717 pounds of petroleum vapors were removed by HVDPE, and an additional 85 pounds of petroleum were removed by excavation during the UST removal. Concentrations of all petroleum constituents were reduced to cleanup levels designated by the *Low-Threat Closure Policy*. Staff closed the case in June 2022.

**ANTLERS SHELL/SUBWAY
20884 ANTLERS ROAD, LAKEHEAD, SHASTA COUNTY**

The Site currently operates as a retail gas station, convenience shop and restaurant. In October 1997, two gasoline (one 12,000-gallon and one 8,000-gallon) and one diesel (6,000-gallon) single-walled USTs and associated piping were removed from the Site and replaced with double-walled USTs in the same cavity. MTBE was detected in soil samples collected from the tank cavity. In August 2007, a sample collected from the onsite water supply well indicated MTBE at concentrations exceeding the drinking water

standard. In March 2008, Central Valley Water Board became the lead regulatory agency and requested a preliminary site investigation. Between 2009 to 2020, the soil and groundwater beneath the Site and on adjacent offsite properties was extensively evaluated and sampled to delineate the lateral and vertical extent of pollution emanating from the Site. Routine groundwater monitoring of over 20 sampling points (domestic wells, exploratory borings, monitoring wells, and extraction wells) was initiated in 2012. The primary constituents of concern included gasoline, BTEX, and fuel oxygenates. In accordance with Cleanup and Abatement Order (CAO) R5-2011-0713, groundwater extraction with reinjection operated between 2013 and 2018, treating 3,810,361 gallons of groundwater and removing approximately 30 kilograms of MTBE. Additionally, a treatment system was placed on the local post office domestic well; this system is no longer needed. Parcels with impacted domestic wells have received an unimpacted replacement well. In June 2022, two deed restrictions (covenant and environmental restrictions) were recorded for parcels overlying the MTBE groundwater plume that exceeds maximum contaminant levels. The Site was closed in June 2022 under the *Low-Threat Closure Policy* and the CAO was rescinded.

SITE CLEANUP PROGRAM

Following are sites where Board staff concluded that the residual contaminants in soil, soil gas, or groundwater no longer pose a threat to human health or the environment. Where necessary, a land use covenant was recorded to ensure site conditions remain protective of beneficial uses.

SACRAMENTO

NO FURTHER ACTION DETERMINATION, RIVER RANCH-WALLACE/KRADLER FARM, RIVER RANCH ROAD, COLUSA, COLUSA COUNTY

The property is a former fruit dehydration facility and residence. In 1993, the property owner removed two 10,000-gallon diesel above-ground storage tanks and drums of petroleum, the sources of petroleum releases. The property owner then excavated a total of 2,180 cubic yards of petroleum-impacted soil from the three areas between 1993 and 1994. EnviroSearch concluded that the excavation removed the impacts and soil samples defined the extent of the release. Groundwater did not appear to have been impacted. EnviroSearch, Inc. transported the impacted soil to Florimond Orchards, Inc., approximately 10 miles from the Site property. EnviroSearch, Inc. placed the soil in lined bio cells and tilled the soil for remediation. In 1998, Helmick and Learner Engineering and Environmental Services (H&L) concluded that post-remediation soil samples did not contain laboratory-detectable concentrations of petroleum. In 1998, Central Valley Water Board staff concurred that remediation was complete. In 2022, staff reviewed the inactive case according to the *Low-Threat Closure Policy* and concurred with EnviroSearch, Inc. and H&L's previous conclusions for case closure. Following public notification activities, Central Valley Water Board staff closed the case on 28 June 2022.

NO FURTHER ACTION DETERMINATION, PG&E JACKSON SERVICE CENTER SITE CESSPOOL INVESTIGATION, 12626 JACKSON GATE ROAD, JACKSON, AMADOR COUNTY

In 2007, the PG&E Jackson Service Center encountered a subsurface structure (referred to as the cesspool) while installing an access ramp for their customer service office. The cesspool contained stagnant water and sediment with elevated levels of total petroleum hydrocarbons (TPH), arsenic, and lead. Contaminated water and sediment were removed from the former cesspool, which was backfilled with crushed rock topped with concrete. Groundwater was found to be impacted by TPH as diesel (TPH-d) and arsenic in a limited area around the former cesspool. Groundwater monitoring demonstrated that TPH-d decreased to below water quality objectives and arsenic showed a decreasing trend with residual concentrations near background concentrations. A conditional No Further Action determination was made on 10 January 2022. Following the destruction of the four site monitoring wells, Central Valley Water Board staff issued final No Further Action letter on 2 June 2022.

J.R. SIMPLOT SOILBUILDERS (COLUSA COUNTY AIRPORT), 2947 FARINON ROAD, COLUSA, COLUSA COUNTY

The Site is currently a J.R. Simplot Company (Simplot) fertilizer dealership containing a bulk fertilizer warehouse, packaged product warehouse, shop building, tank farm, overhead dispenser, and wash rack. Prior to Simplot's operations, Occidental Chemical Company (Occidental) operated a pesticide and fertilizer dealership at the Site from about 1973 to 1983. Occidental discharged agricultural chemical applicator rinse-water to a pond located west of the Colusa County Airport terminal. A crop-dusting company operated at the Site prior to Occidental. Following a 2001 Site inspection, the case went "inactive" until January 2018, when Central Valley Water Board staff sent Simplot a letter requesting additional Site information. To evaluate current Site conditions, beginning in 2019, Simplot advanced five borings, installed three monitoring wells, and conducted four quarterly groundwater monitoring events at the Site. Simplot detected low pesticide concentrations (up to 670 micrograms per kilogram 4,4'-dichlorodiphenyltrichloroethane [DDT]) in a subset of soil samples. Simplot detected nitrate (up to 46.7 milligrams per liter [mg/L] as nitrogen) and nitrite (up to 0.20 mg/L as nitrogen) in Site groundwater samples, with the highest concentrations detected in samples from monitoring well MW-1, located in the upgradient portion of the Site, adjacent to an unlined irrigation canal. Simplot did not detect 1,2,3-trichloropropane, Di bromochloropropane (DBCP), 1,2-dibromoethane, chlorinated herbicides, or organophosphorus pesticides in groundwater samples. Central Valley Water Board staff agreed with Simplot's conclusion that the remaining residual concentrations of ammonia, nitrate, nitrite, and pesticides at the Site do not present a threat to water quality or human health. The case was closed on 31 May 2022.

STAFF RECOGNITION

EMPLOYEE RECOGNITION AWARDS JUNE 2022 THROUGH JULY 2022

At the 13 June 2022 All Staff Meeting, Executive Officer Pulupa presented Employee Recognition Awards to the following staff:

Employee: Jessica Rader And Sajleen Phagura

Unit: TMDL and Delta Unit

Title: Senior ES Supervisor and ES

Supervisor: Meredith Howard

Jessica Rader and Sajleen Phagura are highly valued members of the Planning Section who work on the Pesticide Program. Jessica re-joined the Planning Section in February 2022 as the Supervisor of the TMDL and Delta Unit and Sajleen joined the Water Boards in March as an Environmental Scientist in the unit. They are being recognized for their efforts to address the backlog of work associated with implementation of the Pyrethroid TMDL and Control Program due to vacant Senior Supervisor and Environmental Scientist positions in the unit for several months.

Jessica and Sajleen diligently reviewed the many Pyrethroid monitoring and management plans, took initiative to organize discussions with permitting and OCC, made recommendations to management, and communicated decisions and feedback to dischargers. Despite the many complexities of this Program and the plans they reviewed, they enthusiastically stepped in and tackled the backlog of work. Their attention to detail was critical and resulted in well thought out recommendations to management.

Jessica and Sajleen are both hard-working team members who have greatly exceeded expectations. We are fortunate to have them working at the Central Valley Water Board and they are well deserving of this award.

Employee: Jon Rohrbough

Unit: NPDES Compliance and Enforcement

Title: Water Resource Control Engineer

Supervisor: Xuan Luo

Jon Rohrbough is a Water Resource Control Engineer in the NPDES Compliance and Enforcement unit. Jon started with the Central Coast Water Board in 2008 and worked at the State Water Board for about a year before he joined the Central Valley Water Board in August 2019.

Jon oversees more than 20 NPDES facilities in the Region. He conducts compliance evaluation inspections at wastewater treatment facilities, reviews monitoring, and technical reports submitted by dischargers, and prepares enforcement orders. He works with dischargers firmly and patiently, tracking the outcome of each interaction.

Last fall, the City of Rio Vista Beach Facility, a secondary wastewater treatment plant, experienced several upsets which resulted in discharge of partially treated wastewater to the Sacramento River. Jon has worked diligently with the discharger daily to monitor the effluent quality, track down the causes of the upset, and look for solutions to bring the discharger back to compliance. As a result, the City has proposed a Wastewater Plant Consolidation Project to redirect all the City's wastewater from the antiquated Beach Facility to the Northwest Facility, a much newer tertiary wastewater treatment plant, and decommission the Beach Facility. This project will improve water quality in the Sacramento-San Joaquin River Delta by decommissioning the last wastewater treatment plant still discharging secondary treated wastewater to the Delta.

Currently, Jon is working on multiple Stipulated Orders with compliance projects to help POTWs serving small communities with financial hardships. In addition, Jon also takes initiative to work with the NPDES permitting group on the development of the NPDES permit template, improving the clarity and enforceability of the permit.

Jon carries with him a high level of professionalism and dedication. He is an exemplary employee and a highly valued member of the NPDES Compliance and Enforcement unit.

Employee: Patricia Basaldua-Sanchez

Unit: Stormwater/Cannabis

Location: Sacramento Office

Title: Scientific Aid

Supervisor: Brett Stevens

Patricia has been working as a scientific aid in the Sacramento Stormwater Unit since November 2020. She is being recognized for her outstanding work performance in providing valued support to the Construction and Industrial Stormwater Programs. Patricia's substantial contributions include:

- Assisting with homeless encampment-related cleanup efforts, including tirelessly working in the field to remove trash and debris
- Compiling sampling results and assisting with preparing a presentation regarding the Caldor Fire area downstream water quality monitoring
- Providing field support to the SWAMP Unit with routine receiving water monitoring
- Drafting Notices of Violation for permittees who failed to submit annual reports, including preparing the spreadsheets for data-merged mail outs
- Assisting with Notice of Termination processing for the Rancho Cordova and Fresno offices
- Entering discharger data into the Stormwater Program's state-wide discharger database; and

- Providing courteous customer service in responding to email and phone inquiries
- Stormwater staff appreciate and recognize Patricia's positive attitude, and her ability to work independently during COVID-related teleworking. Her work productivity, customer service, and attention to detail make Patricia a valued member of the Stormwater Unit and the Water Board; and she has therefore earned the recognition provided by this award.

Employee: Kyle Cockerham

Unit: Site Cleanup Program – Private Sites Cleanup

Location: Sacramento Office

Title: Engineering Geologist

Supervisor: Kristi Shelton

Kyle Cockerham is an Engineering Geologist in the Site Cleanup Program Private Sites Cleanup Unit. Kyle oversees cleanup activities at numerous sites including small dry cleaners and industrial sites that range in size from former small mom and pop businesses to large industrial facilities.

Due to a recent staff vacancy, Kyle took on oversight of both the Sacramento Railyards and a US Army Corps of Engineers formerly used defense site (FUDS) project while continuing to keep his existing case load moving forward. The Sacramento Railyards is one the Central Valley Regional Board's Priority Cases and requires extensive staff involvement and engagement with several State agencies. Kyle completed reviews of several large reports for these projects and was able to keep them moving forward while we work to fill the unit vacancy. In addition to helping on these large projects, Kyle has also been a great help in supporting staff with sampling events, which included sampling a domestic well at a nearby residence.

Kyle is a valuable member of the Site Cleanup Program and Private Sites Cleanup Unit. He consistently provides high quality written reviews of reports from dischargers and is responsive and respectful to the regulated community. He demonstrates patience when engaging with difficult dischargers and has a unique ability to diffuse contentious situations. For all this and more, Kyle is well-deserving of this Employee Recognition Award.

At the 18 July 2022 All Staff Meeting, Executive Officer Pulupa presented Employee Recognition Awards to the following staff:

Employee: Randy Gudino

Unit: Federal and Private Sites Cleanup

Title: Scientific Aid

Supervisor: Nathan Casebeer

Randy Gudino is a Scientific Aid in the Site Cleanup Program. Randy joined the Central Valley Water Board in September 2021 after previously working as a Seasonal Aid for California Department of Fish and Wildlife. Since joining the Water Board, Randy has

been extremely helpful in supporting the program with a variety of tasks including responding to Public Records Act requests, conducting Potential Responsible Party searches, following up on Office of Emergency Services reports and many other projects and day to day tasks that support the work of the program.

Recently, Randy took the lead for the Rancho Cordova office's Site Cleanup Annual Estimate Letter project, which resulted in preparing over 200 letters for Cleanup Program Sites for the new fiscal year. This is a program critical activity and allows staff to continue working on these cleanup projects. Randy revamped the process to automate the letters by merging site information from a master spreadsheet. He also managed the project by keeping program staff on schedule to provide anticipated hours and tasks, update site information, and review and distribute the final letters. To support preparation of future year's Annual Estimate Letters, Randy is also preparing a new how-to guide for the entire process, which was last done in 2013. For all of this and more Randy is well-deserving of this Employee Recognition Award.

Employee: Gabrielle Gundry

Unit: Mercury Program and Basin Planning Unit

Title: CivicSpark Fellow

Supervisor: Lauren Smitherman, Senior Environmental Scientist

While not technically a Board employee, Gabby Gundry is truly deserving of a recognition award. Gabby started as a CivicSpark Fellow in September 2021 and will be wrapping up her service year at the end of July. CivicSpark is a Governor's Initiative AmeriCorps program dedicated to building capacity for local public agencies to address community resilience issues such as climate change, water resource management, housing, and mobility.

Over this past year, Gabby supported the Tribal Beneficial Uses (or TBUs) project efforts that aim to protect tribal cultural and subsistence fishing activities on Central Valley waterways. From Day 1, Gabby showed up with enthusiasm, drive, and a superb attention to detail. Because of her high degree of professionalism, Gabby was given the opportunity to co-present at the February 18, 2022, Regional Board Meeting, which adopted the TBU Definitions into our basin plans. She is currently assisting with preparing agenda document for the upcoming State Board Meeting for approval of the basin plan amendments and ensuring our internal folders are organized.

Gabby also flourished when asked to develop a TBU Basin Planning Primer—which outlines the LENGTHY basin planning process and our TBU designation approach. Gabby efficiently researched the process, incorporated appropriate Tribal graphics, and is ensuring ADA compliance. This Primer will help tribes for years to come as the Board takes on TBU designations.

For her collaborative nature, drive, and efforts to further water quality protection for California Native American Tribes, Gabby is well-deserving of this award. We wish her the best of luck on her professional journey!

Employee: Amber Ginorio

Unit: Site Cleanup Program, Federal Cleanup Unit

Title: Engineering Geologist

Supervisor: John Murphy

Amber Ginorio is an Engineering Geologist and Geologist in Training with the Federal Cleanup Unit. Amber joined the Central Valley Water Board in March 2021 after spending a couple years with the United States Army Corps of Engineers Sacramento District where she simultaneously completed her bachelor's degree in Geology from Sacramento State. This is also Amber's second career choice, having previously spent time in the jewelry industry.

Amber joined the Federal Cleanup Unit amidst a time of relative chaos. Due to several vacancies in the unit, Amber's case load filled almost immediately and has not lightened. Despite this, Amber demonstrated an exceptional ability to build her technical knowledge and learn the Site Cleanup Program's regulatory process, all while working from home. Amber now oversees and provides technical and regulatory oversight of investigations and remediation at sites with soil, soil vapor, and groundwater pollution, or threat of pollution at former Department of Defense and private facilities.

The need to collaborate at Amber's sites is significant and one of Amber's greatest strengths. One highlight has been Amber's oversight of Air Force investigations into PFAS contamination at Mather Air Force Base. The PFAS groundwater plume from Mather has impacted drinking water wells at the Bethany Slavic Missionary Church, a congregation with over 5,000 weekly attendees. Amber has carefully navigated and facilitated coordination between the Air Force, multiple regulatory agencies, and church leaders to address this issue. Amber has been vigilant with the Air Force to ensure everything possible is being done to restrict exposures to contaminated drinking water.

Amber's exceptional ability to facilitate collaborative efforts is also evident with her work at Stockton Propeller, a propeller repair facility that has been illegally disposing wastes for almost 20 years. Working closely with multiple San Joaquin County agencies, DTSC, and our Office of Chief Counsel and Office of Enforcement, Amber is currently implementing progressive enforcement to investigate the presence and extent of contamination at this private facility.

The Site Cleanup Program is incredibly grateful Amber pursued a second career as a geologist. Amber recently passed probation with ease, and it is clear she will continue to excel within the Federal Cleanup Unit and as a civil servant. Amber is well deserving of this award, and we look forward to her future achievements.

ENFORCEMENT

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 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 AND COMPLAINTS ISSUED OR ADOPTED

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) that have been issued by the Central Valley Regional Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database. For this reporting period, 1 May 2022 through 30 June 2022, no formal enforcements were issued. Most of the Compliance and Enforcement Program staff time was spent meeting to develop strategies for enforcing noncompliance with the CV-SALTS Program, interoffice collaboration across permitting and CE programs, focus on end-of-year inspections to meet FY 21/22 program goals, and increased compliance enforcement.

ENFORCEMENT UPDATE

Enforcement Table 1 below summarizes the enforcement actions issued in all Regions for the period between 1 May 2022 through 30 June 2022. From a statewide perspective, Region 5 is responsible for 11% of the enforcement actions tracked in CIWQS during this period including 16% of all NOV's, 26% of all SEL, and 20% of all TSOs. In addition, notices of noncompliance for storm water dischargers were delayed and will be issued in July 2022.

**Enforcement Table 1 – Statewide Enforcement Actions in CIWQS
1 May 2022 through 30 June 2022**

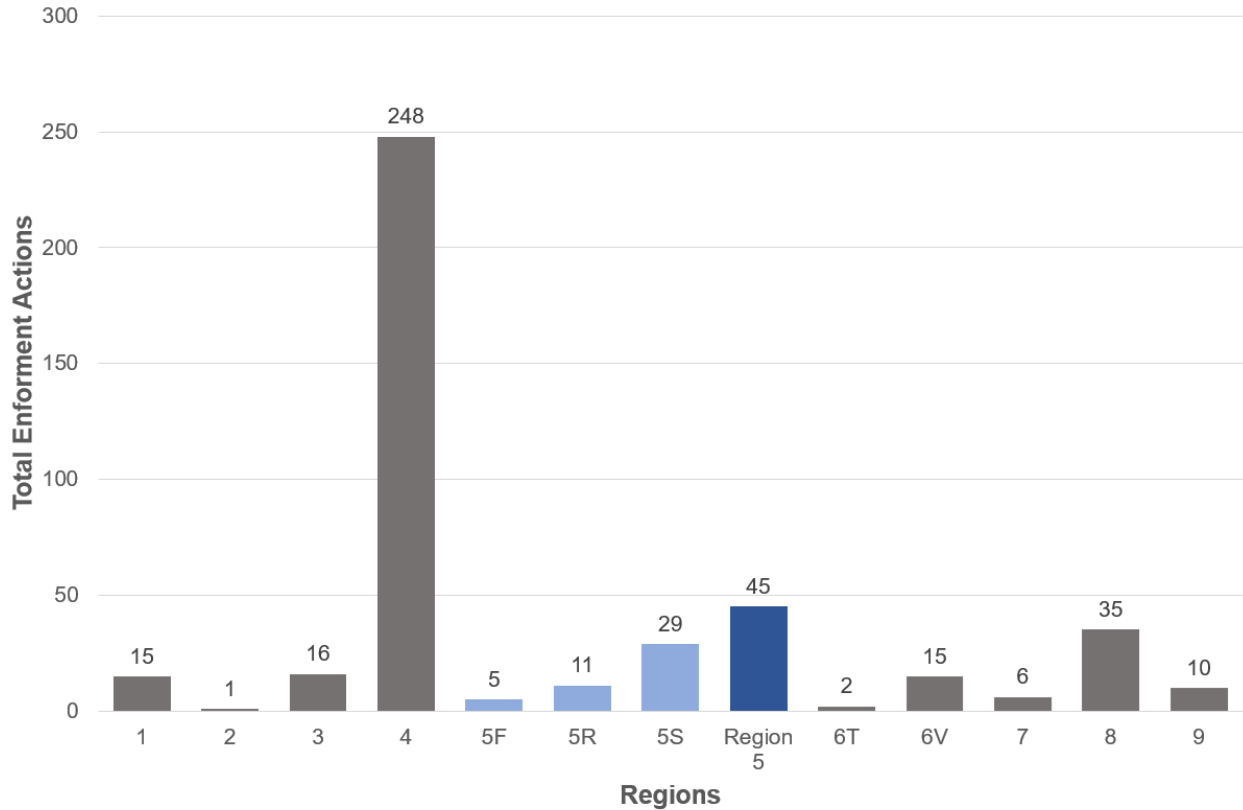
Region	13267	NNC	ACL	CAO	EPL	NOV	NTC	SEL	TSO	VER	Total
1	1	6	0	1	0	7	0	0	0	0	15
2	0	0	0	0	0	0	0	1	0	0	1
3	0	0	2	0	0	7	1	5	1	0	16
4	0	42	7	0	29	146	0	0	3	21	248
5F	0	0	0	0	0	4	0	0	0	1	5
5R	0	0	0	0	0	10	0	0	0	1	11
5S	0	0	0	0	0	21	0	5	1	2	29
Total R5	0	0	0	0	0	35	0	5	1	4	45
6T	0	0	0	0	0	1	0	1	0	0	2
6V	0	0	0	0	0	12	0	1	0	2	15
7	0	0	0	0	0	6	0	0	0	0	6
8	0	1	1	1	1	5	0	3	0	23	35
9	2	0	1	0	0	4	0	3	0	0	10
Total	3	49	11	2	30	223	1	19	5	50	393

ENFORCEMENT ACTIONS

ENFORCEMENT ACTIONS AND ABBREVIATIONS

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

Statewide Enforcement Actions By Regions



Enforcement Figure 1: Enforcement Actions: Statewide Enforcement Actions recorded in CIWQS 1 May 2022 through 30 June 2022

In addition to the above, Enforcement Table 2 below summarizes enforcement actions recorded in GeoTracker and not in CIWQS:

Enforcement Table 2 - Region 5 Enforcement Actions in GeoTracker 1 May 2022 through 30 June 2022

Region	13267	Letter – Notice	NOV	Staff Letter	VER	Warning Letter	Total
5F	1	0	11	36	1		49
5R	1	2	0	18	1	4	26
5S	1	6	2	118	2	1	130
Total	3	8	13	172	4	5	205

Finally, 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 2022 through 30 June 2022, a summary of those enforcement actions is included in Table 3, below.

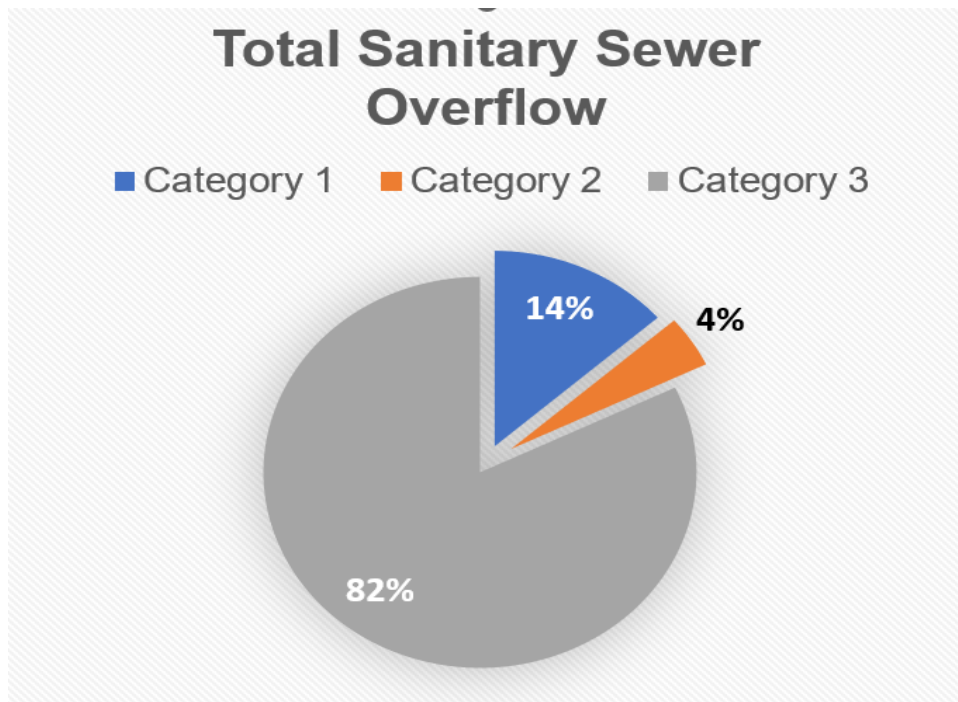
**Enforcement Table 3 – Region 5 ILRP Enforcement Actions
1 May 2022 through 30 June 2022**

Region	NOVs for Failure to Respond to 13260 Directives	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Total
5F	7	0	7
5S	6	206	212
Total	13	206	219

SANITARY SEWER OVERFLOWS (SSOS) AND COMPLAINTS

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS General Order) 2006-003-DWQ requires enrollees to submit 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 2022 through 30 June 2022, there was no reported SSO incident in which 50,000 gallons or greater spilled reached surface water.

SSO SUMMARY DATA



**Enforcement Figure 2: Central Valley Sanitary Sewer Overflow Summary
1 May 2022 through 30 June 2022**

For the reporting period between 1 May 2022 through 30 June 2022, there were 139 total SSO spills: 11 Category 1, 8 Category 2, and 120 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)

(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).

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

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 2022 through 30 June 2022, Central Valley Water Board staff have received a total of 37 complaints from phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/).

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

To date, 32 (86%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining five (5) complaints remain ongoing.

ADMINISTRATIVE CIVIL LIABILITY

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)

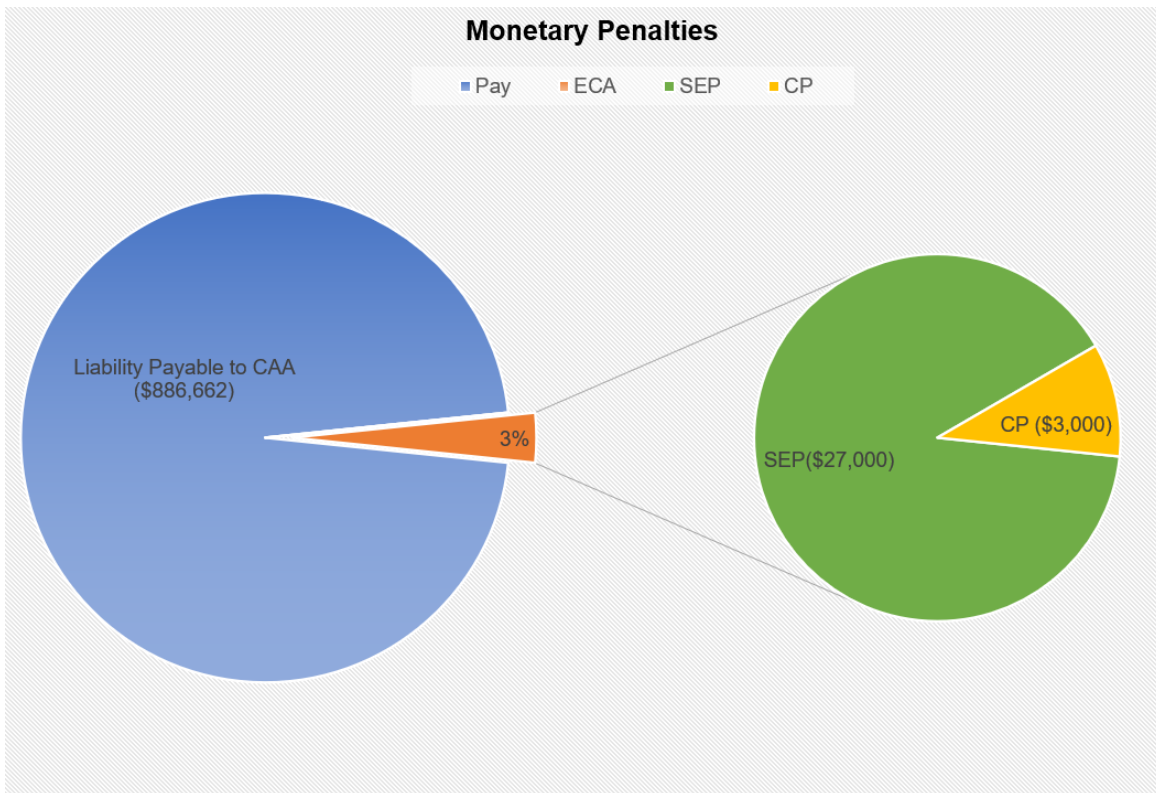
A settling party may offset a portion of the monetary liability of an ACL penalty by voluntarily choosing to fund SEP that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required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

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 2021 through 30 June 2022, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$916,662 in monetary penalties (Liability payable to CAA, CP, and SEP) were issued during this period, of which \$27,000 was allocated for SEP and \$3,000 was allocated for CPs (see Enforcement Figure 3 below).



Enforcement Figure 3: Region 5 – Sum of Total Monetary Penalties Issued during the fiscal year (1 July 2021 through 30 June 2022)

PERFORMANCE TARGETS

Performance measurement and reporting is an important component of a complete system of performance management and is needed to demonstrate how well programs or strategies are working. Information obtained through better performance

measurement and program evaluation provides insight that enables us to understand and replicate successes, and continuously improve programs.

To this end, the Water Boards establish annual performance targets for key output measures. In effect, these targets are goals that establish measurable levels of performance to be achieved within a specified time. The Water Board has a systematic target setting approach for several of its programs. Using this new method, performance targets are based on available resources and uniform cost factors for key workload outputs. This target setting approach is described in the [Resource Alignment Evaluation Report](https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf)

(https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf)

and was used to develop the FY 2020-2021 performance targets. Below is the Central Valley Water Board’s Performance Measurement Summary for the 2021-2022 fiscal year.

ENFORCEMENT TABLES 4a-4e - REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY FROM FY 21/22 (1 JULY 2021 THROUGH 30 JUNE 2022)

Table 4a – NPDES Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Facilities Inspected	24	23	96%	NA	23
Minor Facilities Inspected	11	14	127%	NA	14

Table 4b – NPDES Storm Water

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	354	107%	NA	412
Stormwater Industrial Inspections	195	248	132%	NA	258

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Municipal Inspections	0	47	NA	NA	56

Table 4c – Waste Discharge to Land Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	153	113%	NA	171

Table 4d – Land Disposal

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	80	94%	NA	106
All Other Inspections	23	38	191%	NA	44

Table 4e – Other Programs

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	267	186	91%	NA	243
Confined Animal Facility Inspections	275	294	117%	NA	323

**ENFORCEMENT TABLE 5 – REGION 5 CLEANUP ACTION SUMMARY
1 JULY 2021 THORUGH 30 JUNE 2022**

Table 5 – Clean Up

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	4	5	125%	NA	NA
New SCP Sites into Active Remediation	34	19	56%	NA	NA
Cleanup Program Sites Closed	40	34	85%	NA	NA
New UST Sites into Active Remediation	17	11	65%	NA	NA
Underground Storage Tank Sites Closed	49	45	96%	NA	NA

DELTA ACTIVITIES

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

Board staff attended Delta RMP meetings to provide support for program implementation. Board staff developed a Water Quality Metrics document, per Resolution R5-2021-0054, to assist with data review and interpretation. Board staff reviewed the Delta RMP FY2022/2023 Monitoring Workplan and the Quality Assurance Program Plan. Board staff coordinated with State Water Board staff and requested revisions to both documents.

The Steering Committee (SC) met on 16 June 2022. The SC discussed a timeline to develop the Data Management Plan (per Resolution R5-2021-0054) and heard presentations on the pesticide and toxicity and the Sacramento River Nutrient Change studies. Board staff attended many Technical Advisory Committee (TAC) meetings to discuss monitoring results and future monitoring activities for mercury, contaminants of emerging concern, pesticides and toxicity, harmful algal blooms, and nutrients. Board staff attended several Data Management Advisory Committee meetings to provide guidance and feedback on early drafts of the first Data Management Plan for the Delta RMP.

DELTA NUTRIENT RESEARCH PLAN

The Delta Nutrient Research Plan (approved by the Central Valley Water Board in August 2018) identifies information gaps for determining need and potential scope of

water quality objectives for nutrients in the Delta. Board staff are working to conduct and support data collection to fill the information gaps.

STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES

- Board staff meet monthly with representatives from the Delta Science Program, California Department of Fish and Wildlife, the State Water Board and U.S. Geological Survey to improve harmful algal bloom information sharing throughout the Delta. Board staff are assisting the Delta Science Program in planning a workshop on harmful algal blooms intended to be held toward the end of 2022.
- Board staff are part of a project team that is monitoring harmful algal bloom toxins (cyanotoxins) in water and benthic organisms. Board staff are providing project tracking, reporting, and data management.
- Board staff are attending the Interagency Ecological Program Water Quality and Phytoplankton Project Work Team to collaborate with other agencies. This work team serves as a forum for information exchange and project review.
- Board staff are participating in a collaborative project in Stockton with partners including the Port of Stockton, the City of Stockton, Restore the Delta, Little Manilla Rising, San Francisco Baykeeper, and Robertson Bryan Inc. The project is monitoring nutrients, cyanotoxins, dissolved oxygen, and temperature at the Stockton waterfront and Stockton deep water ship channel through September.

SAN JOAQUIN RIVER DISSOLVED OXYGEN TMDL IMPLEMENTATION

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. From 4 May 2022 through 5 July 2022, there were no excursions below the water quality objective of 5 mg/L in the channel. [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).

TMDL BASIN PLANNING

PESTICIDE BASIN PLANNING/TMDLS

CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL

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 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. Three of the five Phase I MS4 permittees reported exceedances of the prohibition triggers. One of these permittees is already implementing the required PMP, while the other two will submit their PMPs by late 2022.

Six Phase II MS4 permittees have selected the baseline monitoring option. Of these six, five Phase II MS4 permittees' Baseline Monitoring Plans have been approved. A revised draft Baseline Monitoring Plan for four Lake County Phase II permittees was reviewed by Board staff and feedback has been discussed with the permittees. Board staff anticipate that the Lake County Phase II permittees will be able to initiate baseline monitoring in October 2022. 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, will be submitting PMPs by late 2022. The Cities of Redding and Chico are on track to submit their Baseline Monitoring Reports by 19 September 2022.

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. Of those, 24 PMPs have

been approved and letters requesting revisions were sent to the remaining 20 Phase II MS4 permittees. All outstanding revisions are expected on or before 30 June 2023. Board staff continue to work with the Phase II MS4 permittees whose PMPs require revision and have followed up with the four Phase II MS4 permittees that did not submit PMPs.

More information can be found on the [Central Valley Pyrethroid TMDL and Basin Plan Amendment Website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html) at:

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

CLEAR LAKE NUTRIENT TMDL

Board staff began initiating the process to revise the Nutrient TMDL. The revisions will incorporate much of the information currently being gathered through studies and projects in the watershed, including the Board's Harmful Algal Bloom Environmental Driver's study, the UC Davis study, Tribal monitoring data, and other stakeholder efforts. Implementation of the existing TMDL will continue.

The technical report for the Board's Harmful Algal Bloom Environmental Driver's study was received and reviewed by Board staff. The report is available upon request on the Clear Lake TMDL website.

More information can be found on the [Clear Lake Nutrient TMDL website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/) at:

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

TRIBAL BENEFICIAL USES DESIGNATION

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/)

2022 TRIENNIAL REVIEW

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 SUB beneficial use definition does not mention "California Native American Tribe" but will be included as a Tribal Beneficial Use (TBU) since can be utilized by California Native American Tribes, Tribal members, as well as other interested persons/members of public. 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 TBUs as a priority project.

At the 18 February 2022 Board Meeting, the Central Valley Water Board adopted the proposed basin plan amendment to add the TBU definitions to the Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and Tulare Lake Basin. Five comments supporting the BPA were received during the public comment period. Board staff continue to usher the BPA through the State Board, OAL, and US EPA approval process with the State Board hearing scheduled for 7 September 2022.

Board staff hosted a virtual Tribal Meeting and provided an update on the TBU project on 5 April 2022. The goal of this meeting was to update Tribes and their representatives on project activities and to solicit input from Tribes on the TBU designation effort for Board staff to incorporate into the approach. Board staff intend to host two to three Tribal update meetings annually. Tribes and their representatives were polled to determine the best timeframes that consider Tribal cultural activities and traditional Tribal practices to ensure maximum Tribal participation. The next Tribal update meeting will be held on 9 November 2022.

Board staff applied for and were awarded an AmeriCorps CivicSpark Fellow to support the TBU project, which began in September 2021. The Fellow has been central to creating a TBU Basin Planning Primer for the Tribes alongside coordinating with State Water Board's Office of Public Participation on a Statewide TBU Basin Planning Factsheet. The Fellow continues to support the TBU project by providing website updates; support developing and delivering public presentations; and interactions with Tribes.

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, Division of Water Quality).

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 control of bio stimulatory (eutrophic) substances and protection of biological integrity as an amendment to the Water Quality Control Plan for Inland Surface Water, Enclosed Bays, and Estuaries of California (ISWEBE Plan). The Amendment is expected to include numeric or narrative water quality objective(s) for bio stimulatory substances and control options for point and non-point sources. It is anticipated to apply statewide to streams, rivers, lakes, and

reservoirs. Bio stimulatory substances are excess nutrients, primarily nitrogen and phosphorus, that cause detrimental aquatic plant and algal growth. Biological integrity uses indices of species diversity and abundance of small organisms and algae to assess ecological health of a water body.

Board staff are tracking the State Water Board progress and participating in coordination meetings with staff of the State and other Regional Boards. In addition, Board staff are working directly with the Southern California Coastal Water Research Project (SCCWRP) to evaluate data and bio stimulatory factor relationships in human-impacted streams, lakes, and reservoirs in the Central Valley. For lakes and reservoirs, Board staff are working closely with SCCWRP staff to compile chlorophyll, nutrients, and cyanotoxin data collected within the water bodies and comparing with satellite imagery of cyanobacteria blooms.

SALINITY AND CV SALTS

CENTRAL VALLEY SALINITY ALTERNATIVES FOR LONG-TERM SUSTAINABILITY (CV-SALTS)

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). [The Adoption Resolution with the final Staff Report and Basin Plan Amendment language](#) can be found here:

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

As required by the Nitrate Control Program, EAP implementation to provide safe drinking water to impacted communities began on 7 May 2021. As of 27 May 2022, Priority 1 Management Zones have collectively reported the following metrics:

**Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals
(as of 27 May 2022)**

EAP Metric	Total (all MZs)	Turlock/ Modesto	Kings	Kaweah	Tule	Chow- chilla
Inquiries/Interest/calls	4,528	1368	926	1250	920	64
Size of Management Zone		> 5000	>5000	<1000	<1000	<1000
Testing Applications Submitted	1,989	790	770	206	190	33
Referred to other programs	706	155	387	46	111	7
Not Responsive	322	167	78	48	8	21
Wells Tested/ Scheduled/Known	942	400	333	126	59	24

EAP Metric	Total (all MZs)	Turlock/ Modesto	Kings	Kaweah	Tule	Chow- chilla
Above 10 mg/L	568	241	177	117	27	6
Average Percent over 10 mg/L	60%	60%	53%	93%	46%	25%
Households receiving bottled water	601	256	192	108	33	12
Fill Station (FS) Locations	7	0	3	2	2	0
FS Average Gallons per Day	690	0	270	76	344	0
Total Households/ equivalents	946					

Notice to Comply letters for the Salt Control Program were sent out on 5 January 2021. Notice of Intent forms are due on 15 July 2021. The Prioritization and Optimization Study Work Plan was approved by the Central Valley Water Board in March 2021.

Future Executive Officer Reports Will Include Reports from the Compliance and Enforcement Program, Which Is Pursuing Violations of CV-SALTS Requirements

The annual CV-SALTS implementation program update to the State Water Resources Control Board was presented at their 7 June 2022 Board meeting.

More information about the [SNCP](#), can be found at:

(<https://www.cvsalinity.org/>)

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

On 11 August 2017, the Board adopted the proposed Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies. A State Board hearing 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 hearing and initial revisions to the amendments were drafted by staff last quarter.

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/).

UNITED STATES BUREAU OF RECLAMATION (USBR)—MANAGEMENT AGENCY AGREEMENT (MAA)

MAA meetings with Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District (GWS) are held quarterly. The next meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) will be held on 19 September 2022.

During the 13 June 2022 MAA Quarterly Meeting, USBR provided an update on the Maze Road Bridge Forecasting effort, Vernalis flow and salinity levels, and the draft 2023 Work Plan. San Joaquin Valley Drainage Authority (SJVDA) and GWS also provided technical updates regarding Proposition 84 activities, including the status of diversions from and drainage to the Lower Joaquin River. The USBR's 2023 Draft Work Plan is available on their website and available for public comment through 18 July 2022.

[USBR's documents](#) are available at:

(<https://www.usbr.gov/mp/ptms/>).

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](#) which can be found each week at:

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

SWAMP is also coordinating 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, it was agreed to break the study into multiple 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. 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](#) found at:

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

Phase 2 of the study began in July 2021 and focuses on dry weather sources in the river reach from Sutter's Landing Regional Park to the confluence with the Sacramento River. Monitoring includes 12 sites on the American River and 1 stormwater sump. Phase 2 monitoring is scheduled to be completed in September 2022.

SUMMER 2022 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. The 2021 monitoring studies included popular recreational spots in the upper San Joaquin River and the lower Kings River watersheds. An additional microbial source tracking study was also completed in 2021 in the Lone Tree Creek watershed, which has historically high levels of E. coli. Staff have initiated monitoring activities for Summer 2022 which include sampling for E. coli in the Lower Kings River, Lower Kaweah River, and Upper San Joaquin River. A microbial source tracking study will be conducted later in the summer 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 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.

As part of the FHAB program, a [California Harmful Algal Blooms Portal](#) can be found at:

(<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>)

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 likely due to other causes. This process includes interviewing the reporting party, consulting the doctor or veterinarian, conducting follow-up sample collection, and/or analyzing carcasses. 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>)

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

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

WINTER 2022 – CENTRAL VALLEY BLOOMS

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 cyanobacteria blooms for the period from 6 May 2022 to 12 July 2022 is provided in Cyanobacteria Table 1.

Cyanobacteria Table 1. Bloom Summary (6 May 2022 through 12 July 2022)

Category	Count
Number of Waterbodies with HAB observations this year ¹	77
Number of locations with active caution advisories ²	33
Number of locations with active warning advisories ²	4
Number of locations with active danger advisories ²	5
Number of Human Illnesses Reported since previous EO Report (under investigation) ³	5

Category	Count
Number of Animal Impacts Reported since previous EO Report (under investigation) ⁴	2

¹Continuous waterbodies with the same name, such as rivers, are delineated into separate waterbodies by county.

²Advisory levels are based on the Freshwater and Harmful Algal Bloom (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)

The FHAB Program defines an active advisory as one with a confirmed observation within the last 30 days, in this case, all observations since 6/12/2022.

³Of the human illnesses reported to the FHAB Program, 1 was reported to the CDC OHAB database, 2 were not reported to the CDC OHAB database, and 2 of the investigations are still in progress.

⁴Of the animal impacts reported to the FHAB Program, 0 were reported to the CDC OHAB database, 2 were not reported to the CDC OHAB database, and 0 of the investigations are still in progress.

FOREST ACTIVITIES PROGRAM

PROJECTS

DEVELOPMENT OF A FEDERAL NPS PERMIT FOR USFS AND BLM ACTIVITIES

The Federal NPS Permit development project is targeting activities conducted by or on behalf of the USFS and BLM on approximately 10 million acres of federal lands in the region. Activities proposed for coverage under this programmatic permit include; vegetation management, road and trail management, post-fire recovery, restoration, and recreation. Since project initiation the USFS and BLM have worked cooperatively with staff to establish and refine best management practices to ensure water quality protection from nonpoint sources of discharge during activity implementation across the state. Tribal consultations were initiated in 2020 and are on-going. A Contract Solicitation for the competitive bid process has been submitted to State Board for the development of an online training and certification system for federal agency use to support the requirements of the proposed permit. A contract to prepare an EIR for the project was executed in 2020 and a complete draft ready of the EIR and the draft

proposed permit is planned to be released for initial public comment summer 2022. Staff expects to bring the proposed permit and EIR to the board for consideration in 2023.

GRANTS/CONTRACTS

POST CAMP FIRE DIXIE ROAD SEDIMENT REDUCTION PROJECT (\$775,198)

The Dixie Road project aims to implement forest management, erosion control, and storm proofing practices on Dixie Road and Camp Creek Road to protect the spawning beds and fisheries habitat of endangered and threatened species associated with the North Fork Feather River, Camp Creek, and their tributaries in Butte County within the perimeter of the 2018 Camp Fire. Currently all NEPA/CEQA permitting has been completed, landowner access agreements were signed, the project went out to bid and a contractor was selected, construction materials were purchased, and the project implementation was started on 6 July 2021. Implementation was halted from July 13th until August 24th due to impacts from the Dixie Fire. The project area was not directly impacted by the fire, but it was close to the project area and access to the project area was restricted by Cal Fire. Work resumed on August 25th and construction implementation has since been completed. The grantee conducted a post construction review, completed as-built road logs, developed a mid-slope road treatment plan, and collected final survey data, and has prepared a Final Project Report. The grantee has also submitted their final project invoice for the project. (Closing 7/31/2022)

INSPECTIONS

Forest Activities Program staff conduct pre-project, active project, and post-project inspections for; commercial timber harvesting operations (pre- and post-fire) on federal and non-federal lands, hazard tree removal activities associated with Cal Recycle/CalOES hazardous debris removal program after a fire, and utility vegetation management activities (pre- and post-fire). In FY 2021/2022, the program established a goal of 267 inspections, and staff conducted 278.

ENFORCEMENT

Multiple notices of violation were sent to dischargers conducting operations in the post-fire environment in early 2022. Particularly utility companies, the U.S. Forest Service and private landowners conducting activities in sensitive post-fire environments.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL ORDERS

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. NPDES Tables 1 through 3, below, summarize the Notices of Applicability that were issued to date for Fiscal Year 2021/2022 (1 July 2021 through 30 June 2022) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order), 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 General Order R5-2022-0006

Facility	General Order Permit Number
PG&E Iron Canyon Dam	R5-2016-0076-069
California Water Service (Visalia District)	R5-2016-0076-071
Teichert Construction Phase 2B Arden Area Pipe Install	R5-2016-0076-072
Placer County Water Agency, Auburn Tunnel Dewatering Project	R5-2016-0076-073
Yosemite Greens Dewatering Project	R5-2016-0076-074
Recology Ostrom Road Landfill Groundwater Dewatering Project	R5-2016-0076-065
River Islands Subdivision Construction Dewatering Project	R5-2022-0006-001

NPDES PERMIT Table 2 - Municipal General Orders R5-2017-0085-02

Facility	County	General Order Permit Number
City of Live Oak WWTP NOA Amendment	Sutter	R5-2017-0085-018
City of Willows WWTP	Glenn	R5-2017-0085-022

Facility	County	General Order Permit Number
City of Auburn WWTP	Placer	R5-2017-0085-021
City of Modesto WQCF	Stanislaus	R5-2017-0085-020

NPDES PERMIT Table 3 - CAAP General Order R5-2019-0079

Facility	County	General Order Permit Number
CDFW and USBR Nimbus and American River Fish Hatcheries	Sacramento	R5-2019-0079-005
CDFW Mokelumne River Fish Hatchery	San Joaquin	R5-2019-0079-007
CDFW Moccasin Creek Fish Hatchery	Tuolumne	R5-2019-0079-010
CDFW and PG&E Lake Fish Hatchery	Shasta	R5-2019-0079-009
CDFW Mt. Shasta Fish Hatchery	Siskiyou	R5-2019-0079-008

DAIRIES/CONFINED ANIMAL FACILITIES

CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program’s FY 2021/2022 performance target for facility inspections was 275. Staff completed 345 inspections. The performance target for FY 2022/2023 is also 275; Staff anticipates meeting the performance target.

ANNUAL REPORTS

CAF Program staff are in the process of tabulating and reviewing annual reports submitted by owner/operators of milk cow dairies and bovine feedlots for completeness. Annual Reports for activities conducted during calendar year 2021 were due 1 July 2022 for approximately 1,100 dairies enrolled under the Dairy General Order (Order R5-2013-0122) and for 275 feedlots enrolled under the Bovine Feedlot Order (Order R5-20179-0058).

ALTERNATIVE MANURE MANAGEMENT

In May and June 2022, staff took an active role as Technical Advisory Committee members in the review of several Alternative Manure Management Practices (AMMP) proposals submitted to the California Department of Food and Agriculture (CDFA) under

a competitive grant application process. Funded by California Climate Investments, AMMP provides financial assistance for the implementation of non-digester manure management practices in California, resulting in reduced greenhouse gas emissions. Accordingly, all new practices must achieve methane emission reductions at California dairy and livestock operations through non-digester management practices. CDFA received 62 applications between March and May 2022 for a total funding request of approximately \$42 million. Grant awardees are anticipated to be announced in August. Information about the 2022 Alternative Manure Management Program projects is available at www.cdfa.ca.gov/oefi/AMMP/.

DAIRY DIGESTERS

Staff are taking an active role as Technical Advisory Committee members in the review of several dairy digester project proposals submitted to the 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 and are under review for a total funding request of approximately \$35.4 million. Grant recipients will be announced, and funding will be awarded in late August. Information about the 2022 Dairy Digester Research and Development Program projects is available at www.cdfa.ca.gov/go/dd.

OIL FIELDS

WASTEWATER SURFACE PONDS

Central Valley Water Board staff (Staff) continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land, reviewing required monitoring reports, and evaluating closure plans for produced wastewater ponds. Major items completed by Staff include the following:

- Issued Notice of Violations to several operators for failure to submit monitoring plans and reports, reports of waste discharge, and closure plans in the Midway-Sunset, South Belridge, Deer Creek, and McKittrick Oil Fields.
- Approved the closure of four produced wastewater ponds in the Asphalto Oil Field.
- Conditionally approved a closure work plans for the following: two ponds in the Kern River Oil Field, and six ponds in the Kern Front Oil Field.

- Inspected a lease in the Fruitvale Oil Field after receiving a general complaint regarding the operation of a petroleum facility.

During May and June 2022, Staff completed 23 inspections related to oil field facilities. Staff is preparing reports for these inspections and finalizing reports from the 2021/22 calendar year, which will subsequently be sent to the Operators for record keeping.

In May and June 2022, Staff received five Public Record Act Requests (PRA Requests) related to the discharge of produced water to land. Staff reviewed the PRA Requests and submitted a response to each that included the requested information, as appropriate.

Staff is also continuing to review 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 WDRs).

SPILL RESPONSE

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Central Valley Water Board staff were notified of eight events in May and June.

A spill of crude oil and oil field produced wastewater occurred on the Section 22GSE facility operated by Chevron USA, Inc. (Chevron), in the Midway Sunset Oil Field on 1 May. According to OES, a flow line leak caused the discharge of approximately 17 bbl. (714 gals) of oil and produced wastewater into an ephemeral stream bed. On 3 May, Chevron staff told Board staff that staff of the Department of Fish and Wildlife-Office of Spill Prevention and Response (CDFW-OSPR) inspected the spill site. Chevron staff added that cleanup of the affected areas was completed. Chevron staff provided Board staff with photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the 35Z Lease operated by California Resources Corporation (CRC), in the McKittrick Oil Field on 19 May. According to OES, a tank leak caused the discharge of approximately 9 bbl. (378 gals) of oil and oil field produced wastewater into the secondary containment of the source tank. On 20 May, CRC staff told Board staff that the discharge was contained within the secondary containment of the source tank and no ephemeral stream beds have been affected. On 25 May, CRC staff told Board staff that cleanup of the affected areas was complete and provided Board staff with pre- and post-cleanup photographs of the spill site.

A spill of crude oil and oil field produced wastewater occurred on the Black Satin Lease operated by Little Creek Properties (LCP), in the Mount Poso Oil Field on 19 May. According to OES, a leak from a crude oil tank caused the discharge of approximately 10 bbl. (420 gals) of oil and 50 bbl. (2,100 gals) of produced wastewater into the secondary containment of the source tank, downhill, and into an ephemeral stream bed. The OES report also stated that approximately 0.5 bbl. (21 gals) of the discharge entered the affected stream bed. On 19 May, staff of Daybreak Oil, a co-operator of the Lease told Board staff that the discharge was caused by a human error. On 19 May,

staff of CDFW-OSPR told Board staff that the discharge was stopped, and cleanup was in progress. CDFW-OSPR staff added that they will inspect the spill site again on 23 May. On 22 May, CDFW-OSPR staff provided Board staff with pre-cleanup photographs of the affected areas. On 26 May, LCP staff told Board staff that cleanup of the affected areas was complete and provided post-cleanup photographs of the affected areas.

A spill of crude oil and oil field produced wastewater occurred on the on a facility operated by Crimson Resource Management (Crimson), in the Greely Oil Field on 27 May. According to OES, a pipeline ruptured and caused the discharge of approximately 2 bbl. (84 gals) of oil and 3 bbl. (126 gals) of produced wastewater to land within the facility and a neighboring cropped property. On 27 May, Crimson staff told Board staff that the discharged fluids affected flat areas within the facility and a neighboring property owned by Rose Grimmway. Crimson staff added that no waterways or ephemeral stream beds have been affected and cleanup was in progress. On 27 May, Crimson staff told Board staff that cleanup of the affected areas was completed and provided pre- and post-cleanup photographs of the affected areas.

A spill of crude oil occurred on the Morris Lease operated by Sentinel Peak Resources California (SPRC), in the McKittrick Oil Field on 27 May. According to OES, a group line failure caused the discharge of approximately 6.7 bbl. (281.4 gals) of oil and 10 bbl. (420 gals) of produced wastewater to land. SPRC staff told Board staff that the discharged fluids affected pre-disturbed areas on the neighboring Section 8Z Lease, which is operated by Chevron USA, Inc. SPRC staff added that no ephemeral stream beds or waterways have been affected by the spill and that cleanup of the affected areas was completed. SPRC staff provided Board staff with photographs of the areas affected by the spill.

On 28 May, a private citizen reported a discharge of an unknow quantity of oil at a private residential area near East Pacheco Road in Bakersfield. According to OES, the reporting party stated that that the discharge was ongoing and of an unknown source. Board staff attempted to contact the reporting party multiple times but without success. Staff of Kern County Environmental Health (KCEH) responded to the described location of the incident but did not observe any indications of the described spill. Staff of KCEH and the Division of Geothermal Energy Management (CalGEM) attempted to contact the reporting party without success. This incident cannot be further investigated.

A spill of oil occurred on the Johnson Lease operated by Powerdrive Energy Service Company, in the Bellevue West Oil Field on 30 May. According to OES, a tank overflowed causing the discharge of an unknown amount of oil to the ground. Staff of CalGEM responded to the spill site and provided their observations to Board staff. On 31 May, CalGEM staff told Board staff that the discharge was entirely contained within the secondary containment of the source tank and no waterways were affected. CalGEM staff added that cleanup of the affected areas was complete and provided post-cleanup photographs of the affected areas.

A spill of oil field produced wastewater occurred on the Kern Land 5 Lease operated by E&B Resource Management Company (E&B), in the Fruitvale Oil Field on 24 June.

According to OES, during pulling of fluids from an injection disposal well a vacuum hose failed and caused the discharge of approximately 2.4 bbl. (100 gals) of produced wastewater to the ground surrounding the source well. On 27 June, E&B staff told Board staff that the discharge consisted entirely of produce wastewater and no oil was discharged. E&B staff added that cleanup of the affected area was complete, and no waterways were affected by the spill.

UIC PROGRAM

During the period from 12 May 2022 to 12 July 2022, staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Aquifer Exemption – Staff and State Water Board staff met with California Geologic Energy Management Division (CalGEM) and the oil field operators (Operators) to discuss the locations of potential conduits, and the need for a conduit analysis within the proposed Aquifer Exemption areas. Staff reviewed the information received and provided State Water Board with comments. Staff and State Water Board staff met with CalGEM to discuss Water Board’s review.

Kern River Aquifer Exemption –Staff and State Water Board staff met with CalGEM and the operators to discuss the locations of potential conduits, and the need for a conduit analysis within the proposed Aquifer Exemption areas. CalGEM provided the Operators conduit review. Staff reviewed the information and provided State Water Board with comments. Staff and State Water Board staff met with CalGEM to discuss Water Board’s review.

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

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

Mt. Poso Dorsey Area Aquifer Exemption –Staff and State Water Board staff met with CalGEM and the Operators to discuss conducting a conduit analysis. Staff and State Board staff reviewed the conduit analysis provided and provided CalGEM with questions and concerns regarding the conduit analysis. CalGEM provided a revised aquifer exemption application. Staff reviewed the application and continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

UIC PROJECT REVIEWS

Staff received information in response to five 13267 Orders requiring Operators to perform hydrogeologic investigations in the South Belridge and Lost Hills Oil Fields. Additional information was provided regarding one hydrogeological characterization

report for the Lost Hills Oil Field. Staff continue to review the information provided and provide comments and requests for additional information.

Staff received information in response a 13267 Order requiring an Operator to perform a hydrogeologic investigation in the Elk Hills Oil Field. Staff reviewed the information and provided the Operator with comments and a request for additional information.

Staff issued six no objection letters and memorandums for UIC projects in the Lost Hills, Cymric, South Belridge, Fruitvale, and Poso Creek Oil Fields.

Staff sent three letters and memorandums requesting information for UIC projects in the Mountain View, Lost Hills, and Midway-Sunset Oil Fields.

Staff received responses to a review performed for a proposed water disposal project in the South Belridge Oil Field and a proposed steam injection project in the Kern River Oil Field. Staff are reviewing the information provided.

Staff received project information relating to a request to conduct a waterflood project in the Mount Poso Oil Field and a cyclic steam injection project in the Kern River Oil Field. Staff are reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

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

Staff reviewed six groundwater monitoring reports. Monitoring reports reviewed were for three operators in the North and South Coles Levee, Lost Hills, and Rose Oil Fields. Central Valley Water Board staff conveyed draft comments to State Water Resources Control Board staff.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

(ILRP) QUARTERLY STAKEHOLDER MEETINGS

Central Valley Water Board staff holds regular ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The focus of the July 20th meeting was on the development of the Groundwater Protection Targets. The next stakeholder meeting is scheduled for October 12th.

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/index.html).

ILRP COMPLIANCE, OUTREACH & ENFORCEMENT

DRINKING WATER WELL MONITORING OUTREACH

Drinking water well monitoring continues for members in the East San Joaquin Water Quality Coalition (ESJWQC) and coalitions in the Tulare Lake Basin. Members of the ESJWQC and Tulare Lake Basin Coalitions were required to monitor drinking water wells on enrolled parcels starting in 2019 and 2020, respectively. In 2021 members of the San Joaquin & Delta, Grasslands and Westside San Joaquin River Coalitions started their monitoring. In 2022, members of the Rice Commission and Sacramento Valley and Westlands Water Quality Coalitions began monitoring their drinking water wells.

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 accordingly. Between 1 May and 30 June, 168 samples were submitted to GeoTracker by 86 members/landowners from ESJWQC, San Joaquin Delta, the Western San Joaquin River, the Sacramento Valley, and the Tulare Lake Basin Water Quality Coalitions. Approximately 18 percent of samples exceeding the drinking water standard. During the same time, staff sent emails/phone calls to members reminding them of the notification requirement. Out of 1,519 drinking water well exceedances staff has received 1,495 notification responses. Staff continues to follow up with phone calls, emails, letters, and notices of violation, as necessary, for inadequate notification action.

In the Tulare Lake Basin Area, Board staff is continuing to work with members through emails, phone calls, and letters to ensure users of impacted wells are properly notified. As of the end of June 2022, there were 1,823 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 1,821 signed Drinking Water Notification Templates. From 1 May through 30 June staff have contacted 11 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

Region-wide, there have been 13,425 samples submitted to GeoTracker and approximately 23% exceed the nitrate MCL (as of 30 April 2022).

REMINDER LETTERS FOR ENROLLMENT

NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO 13260 DIRECTIVE

Notices of Violation (NOVs) were sent to members who did not respond to a 13260 Directive letter. Failure to respond to the NOV subjects the discharger to further enforcement actions which may include an administrative civil liability order.

Coalition Area	NOVs Mailed 1 May- 30 June
Kings River Water Quality Coalition	5
Kaweah Basin Water Quality Association	1
Tule Basin Water Quality Coalition	1

Coalition Area	NOVs Mailed 1 May- 30 June
East San Joaquin Water Quality Coalition	6
Total	13

NOTICES OF VIOLATION FOR FAILURE TO SUBMIT AN IRRIGATION AND NITROGEN MANAGEMENT PLAN SUMMARY REPORT

Notices of Violation (NOVs) were sent to coalition members for their failure to submit the Irrigation and Nitrogen Management Plan Summary Reports by the Board-approved deadlines. Members who did not respond to our reminder letters were issued NOVs urging them to promptly provide their reports to their respective coalitions or potentially face monetary penalties.

Coalition Area	NOVs Mailed 1 May- June 30
Sacramento Valley Water Quality Coalition	206
Total	

COALITION ENROLLMENT SUMMARY

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program. Board staff has begun to incorporate the new 2018 Department of Water Resources land use data to replace the 2016 data along with our other information including but not limited to current membership lists, dairy parcels, WDR land application sites and past inspection data will be included. There are fluctuations in irrigated agricultural acreage due to various factors, including land use conversions, ownership transfers, and regulatory coverage in other programs, but this new effort will provide a clearer picture of the status of enrollment in the Irrigated Lands Program.

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. The Sacramento Valley Coalition requested our assistance to follow up with late (due 1 March) Irrigation and Nitrogen Management Plan Summary Reports earlier this year to help their members remain in compliance. Staff typically receives a list of late reports from the Coalitions on 31 July every year as required by the Order. Notices of Violation (NOVs) are issued for late reports. We are also following up with 13260 directive letters for members who have dropped out of the coalition due to non-payment. Those who did not respond within the timeframe provided have been issued NOVs. There is no enforcement occurring beyond NOVs currently. 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
CG	Coalition Group
GAR	Groundwater Assessment Report
GQTMP	Groundwater Quality Trend Monitoring Program
GW	groundwater
MPIR	Management Practices Implementation Report
MPU	Monitoring Plan Update
NCP	Nitrate Control Plan
QAPP	Quality Assurance Project Plan
SW	surface water
WB	Water Board

CALIFORNIA RICE COMMISSION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
6/24/2021	Rice QAPP Update	Being revised	
10/11/2021	RPE 2021 Update	Under review	Revision received 6/30/22
10/28/2021	NCP Initial Assessment	Approved 5/25/22	
5/31 and 6/15/22	Field Tours	NA	Staff tour of rice farming operations, pesticide application, and rice mill.

SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
4/7/2022	GAR addendum	Review sent 6/13	
4/29/2022	GW AMR	Review sent 7/5	
5/19/2022	New Mgt Plan	Under Review	
5/27/2022	Exceedance Investigation	Under Review	
6/27/2022	New Mgt Plan	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
CG	Coalition Group
CVGMC	Central Valley Groundwater Monitoring Collaborative
GAR	Groundwater Assessment Report
MPU	Monitoring Plan Update
QAPP	Quality Assurance Project Plan
WB	Water Board

EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
5/2/22	SW AMR	Approved 6/13/22	Surface Water Annual Monitoring Report
5/2/22	GW AMR	Approved 6/16/22	Groundwater Annual Monitoring Report

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
5/2/22	SW AMR	Approved 6/1/22	Surface water annual monitoring report
5/2/22	GW AMR	Approved 6/1/22	Ground water annual monitoring report
6/2/22	SJD Quarterly Monitoring Data	Reviewed 6/2/22	

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
2/7/2022	AMPINAR	Review letter sent 5/19	All requirements met
4/29/2022	GW AMR	Pending review	
6/9/2022	GW GQTMP Update	Review letter sent 7/8	Requesting additional network well
6/30/2022	SW AMR	Pending review	

GRASSLAND DRAINAGE AREA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
4/29/2022	2021 AMR	Approved (6/24/22)	
11/30/2021	GAR Update	Under review	CVGMC effort; provided comments on 3/15
6/17/2022	2022 GQTM Update	Approved (6/27/22)	

TULARE LAKE BASIN COALITION GROUPS

ILRP Acronyms

Acronyms	Meaning
AMR	Annual Monitoring Report
CGQMP ASR	Comprehensive Groundwater Quality Management Plan Annual Status Report
GAR	Groundwater Assessment Report
QAPP	Quality Assurance Project Plan
SW MPIR	Surface Water Management Practices Implementation Report

BUENA VISTA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
09/20/2021	2020 AMR	Under review	
04/29/2022	2021 GTM ASR	Under review	

CAWELO WATER DISTRICT COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/12/2021	2020 AMR	Under Review	
04/29/2022	2021 GTM ASR	Under review	

KAWEAH BASIN WATER QUALITY ASSOCIATION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/01/2021	2020 AMR	Review sent 06/07/2022	
10/01/2021	2020 CGQMP ASR	Review sent 07/12/2022	
05/01/2022	2021 GTM ASR	Under Review	

KERN RIVER WATERSHED COALITION AUTHORITY

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
04/29/2022	2021 GTM ASR	Under Review	

KINGS RIVER WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/31/2021	2020 AMR	Under review	
05/03/2022	2022 GQTM Well Network	Pending	
6/9/2022	2021 GTM ASR	Pending	

TULE BASIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
01/06/2021	Five-Year GAR Update	Under Review	Made available for public comment on 09/08/2021

WESTLANDS WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/22/2021	Addendum to Source Identification Study	Review sent 05/27/2022	
12/28/2021	2022 QAPP Amendment	Under Review	
05/02/2022	2022 SQMP/GQMP Progress Report	Pending	
05/02/2022	2022 GTM ASR	Pending	
6/9/2022	WWQC SQMP/GQMP Amendments	Pending	
6/13/2022	SWMP QAPP	Under Review	

WESTSIDE WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
09/16/2021	2020 AMR	Under Review	
04/29/2022	2021 GTM ASR	Under Review	

OTHER PROJECTS

GROUNDWATER PROTECTION FORMULA, VALUES AND TARGETS

On 19 July 2021, 13 ILRP Coalitions jointly submitted proposed Groundwater Protection Values for townships within designated High Vulnerability Areas. The values represent each township's total estimated N load (from irrigated agriculture) passing below the root-zone. The Groundwater Protection Values were conditionally approved by the Executive Officer on 27 October 2021. A submittal containing proposed Groundwater Protection Targets is due by 19 July 2022. Development of the Groundwater Protection Targets was the focus of the April 13th ILRP Stakeholder Meeting, and a meeting held on May 2nd with the Coalition and Environmental Justice representatives. The Targets will again be discussed during the July 20th ILRP Stakeholder Meeting.

CV-SALTS IMPLEMENTATION

On 19 May 2022 Central Valley Water Board staff (Jennie Fuller) attended a CV-SALTS Executive Committee Meeting where topics included a status update on the Management Zones' general implementation and outreach progress, SAFER funding of

co-contaminants in Management Zones, Central Valley Water Board Enforcement Activities, and the progress of the Prioritization and Optimization (P&O) Study.

On 22 June 2022 Central Valley Water Board staff (Jennie Fuller) attended the Chowchilla Management Zone Steering Committee Meeting. The meeting provided an update on implementation of the Management Zone’s Early Action Plan and a strategy session and progress update on community outreach efforts.

On 23 June 2022 Central Valley Water Board staff (Jennie Fuller and Management) attended a CV-SALTS Executive Committee Meeting where topics included a status update on the Management Zones’ general implementation and outreach progress, SAFER funding of co-contaminants in Management Zones, Central Valley Water Board Enforcement Activities, and the progress of the P&O Study. Additionally, the P&O Study Final Data Management Plan was approved.

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 January, staff and OIMA have been working to reconcile those missing records.

ILRP ACRONYMS

Acronyms	Meaning
AMR	Annual Monitoring Report
CQAP	Comprehensive Quality Assurance Plan
CVGMC	Central Valley Groundwater Monitoring Collaborative
PEP	Pesticide Evaluation Protocol

CENTRAL VALLEY GROUNDWATER MONITORING COLLABORATIVE

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
6/9/2022	2022 CQAP Amendment	Under review	
6/30/2022	Revised 5-Year Report	Under review	

GRASSLAND BYPASS PROJECT

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
4/27/2022	2021 AMR	Being revised	

NORMAN'S NURSERY

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
5/2/2022	Mgt Plan Annual Report	Review sent 6/8/22	

RICE PESTICIDES PROGRAM

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
			No updates this month

NON-POINT SOURCE (NPS)

CLEAR LAKE NUTRIENT CONTROL PROGRAM IMPLEMENTATION UPDATE

Board staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Responsible parties include Lake County, Lake County MS4 Permittees, US Forest Service, US Bureau of Land Management, and Lake County Farm Bureau. Board staff has sent enforcement orders to each responsible party to obtain this information. To date, all responsible parties have submitted deliverables, which are being reviewed to determine compliance with specified load allocations. The information submitted by the responsible parties was summarized in an updated Technical Memorandum released on 22 September 2021, which is available on the Clear Lake Nutrient TMDL website.

The Board has initiated the process to revise the Nutrient TMDL. The revisions will incorporate much of the 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. Current information regarding the status of the TMDL revision can be found under the TMDL Basin Planning section of the EO Report.

The Blue-Ribbon Committee for the Rehabilitation of Clear Lake met on 25 May 2022 and 22 June 2022. The purpose was to continue discussions on projects being recommended by the Committee and to hear updates of ongoing efforts in the

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

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

More information about the Clear Lake Nutrient Control Program can be found on the [Clear Lake Nutrient TMDL webpage](#) at

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

CANNABIS

CANNABIS GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Staff continue to enroll dischargers into our General Order. Division of Water Quality (DWQ) has taken over responsibilities for issuing Notices of Applicability (NOAs). Fees were increased for the first time and dischargers just received invoices reflecting those increases. Staff are responding to questions from dischargers, some of whom received significantly higher discharges than previous years.

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	0	27	2	0	64	4	6	103
Colusa	0	1	0	0	2	0	3	6
Contra Costa	1	0	0	0	1	0	4	6
El Dorado	0	5	0	0	2	0	0	7
Kern	0	0	0	0	0	0	3	3
Lake	0	135	3	8	262	3	57	468
Fresno	0	0	0	0	6	0	6	12
Merced	0	0	0	0	0	0	8	8
Nevada	2	300	5	0	37	0	30	374
Sacramento	0	0	0	0	0	0	162	162
Sierra	0	1	0	0	0	0	0	1
Solano	0	0	0	0	0	0	5	5
Shasta	0	0	0	0	0	0	21	21

County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Siskiyou	0	0	0	0	0	0	6	6
Stanislaus	0	7	0	0	1	0	38	46
Tulare	0	0	0	0	0	0	7	7
Yolo	0	17	0	0	46	0	6	69
Yuba	0	0	0	0	0	0	2	2
San Joaquin	0	0	0	0	0	0	6	6
Kings	0	0	0	0	2	0	2	4
Totals	3	493	10	8	423	7	372	1316

CANNABIS OUTREACH

- March 24, 2022: Virtual Outreach event on New Enrollee Informa
- May 26, 2022: Virtual Outreach Event on Prepping Site for Development
- July 28, 2022: Virtual Outreach Event on Road Design

COMPLIANCE AND ENFORCEMENT – ENROLLMENT ENFORCEMENT

A second enrollment enforcement effort began late 2021 in the Poorman Creek Watershed. Staff issued 19 Notices to enroll on 12/23/2021. Staff then issued 19 13260 Orders on 03/10/2022. The poor response to the 13260 issued in March 2022 necessitated issuance of 19 NOVs in June 2022. Staff will continue tracking response and following up accordingly.

13260-Order Project Analysis		
Status	Total	Next Steps
Enrolled/Applied/intention to enroll	0	N/A
No longer cultivating	0	N/A
No response	19	NOVs issued – elevate enforcement

COMPLIANCE

- On April 7 Janae performed compliance inspections in Lake County.
- On May 24 Janae performed compliance inspections in Lake County.

ENFORCEMENT

- On April 5, staff performed enforcement inspections in Shasta County.
- On April 28, staff performed enforcement inspections in Shasta County.
- On May 3, staff performed enforcement inspections in Nevada County.

- On May 12, staff performed enforcement inspections in Shasta County.
- On May 18, staff performed enforcement inspections in Yuba County.
- On May 26, staff performed enforcement inspections in Nevada County.
- On June 22, staff performed enforcement inspections in Lassen County.
- On June 30, staff performed enforcement inspection in Nevada County.

INSPECTION REPORTS ISSUED IN NEVADA COUNTY:

- Gutierrez site on 5/3/2022
- Tapia site on 5/26/2022
- Birge site on 6/30/2022
- Keeling site 6/30/2022

INSPECTION REPORTS ISSUED IN SHASTA COUNTY:

- Botello site on 4/05/2022
- Meeker site on 4/05/2022
- Morales-Pimentel site on 4/28/2022
- Macias site on 4/28/022
- Wesso site on 5/12/2022

13267S ISSUED IN SHASTA COUNTY:

- Meeker site NOV issued on 5/05/2022
- Botello site NOV issued 5/05/2022
- Morales-Pimentel NOV issued on 5/27/2022
- Wesso site NOV issued on 6/10/2022

13267S ISSUED IN NEVADA COUNTY:

- Tapia site NOV issued on 6/16/2022

CLEANUP AND ABATEMENT ORDERS

- Southwick property

GRANTS

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](#)

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

The Request for Proposals (RFP) for the 2022 Nonpoint Source (NPS) Grant Program - Clean Water Act section 319(h), originally open from 24 September 2021 through 17 December 2021, was rereleased and was open from 28 April 2022 through 24 June 2022. The RFP has now closed, and proposals are being reviewed by Regional Board and State Board staff. The Grant Program Solicitation Notice and the Grant Program Guidelines can be found on the [State Water Board's NPS Control Program webpage](#).

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

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. A time extension was requested in September 2020 due to delays with subcontracting and COVID restrictions. The request was approved, and the grant was extended to February 2024. (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:

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy (ARC) has thinned approximately 243 acres of merchantable timber under a Cal Fire Prevention Pilot Project Exemption in the Greyhorse Valley. Thinning operations have met and exceeded grant requirements and currently the grantee is looking at upgrading the road network throughout the project area. Due to high wildfire danger during the summer of 2020, the grantee failed to reach a 400-acre thinning goal. The grantee hopes that this goal can be surpassed in the 2021 season if weather conditions permit. At this time, the grantee has bid approximately 600 acres for completion during the 2021 season. ARC has secured permits for road work and a bridge removal in Greyhorse valley and thinning Contractors mobilized equipment and began mastication work on 1 June 2021. Due to several factors such as COVID related delays, lack of contractor capacity, lack of resource availability (parts, materials, extended wait periods for mechanical support on equipment) and limited workdays due to fire danger restrictions ARC requested a time extension of work completion requirements. This time extension was granted, and the grant agreement was amended on 13 October 2021. ARC plans to complete project roadwork in the spring/summer of 2022. (Closing 3/31/2023)

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. The grantee has completed and submitted an Initial Study/Mitigated Negative Declaration for the project and a Notice of Determination is being prepared. The grantee has also completed 401 and 404 permit discussions for compensatory mitigation and are working to finalize permit applications. The grantee solicited a construction bid packet on 19 May 2022. A pre-bid meeting was subsequently conducted on 26 May 2022. The grantee is currently in the process of selecting a contractor and awarding the contract. The grantee is anticipates beginning project roadwork in July 2022. (Closing 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. CEQA has been completed. A Notice of Exemption was approved and concurred by State Board in July and filed with the Clearinghouse on August 26th, 2020. The grantee has recently submitted their project assessment and evaluation plan as well as their proposed schedule of operations. The grantee is currently working on finalizing design plans which will be submitted to the Central Valley Water Board for review. Due to delays in the project the grantee has requested grant amendment and time extension which was submitted on 4 April 2020. The grantee is requesting a new closing date of 30 June 2024. If the grant extension is approved the grantee is anticipating construction could commence by October 2022. (Closing 6/30/2023)

PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH

(An asterisk in front of an entry below denotes “Outreach to Disadvantaged Communities” or “Outreach to Tribes”.)

In April 2022, Central Valley Water Board staff worked with the Office of Public Participation (OPP) to engage leadership at the Bethany Slavic Missionary Church (BSMC) to address several concerns the BSMC has with the United States Air Force’s (USAF’s) response to per- and polyfluoroalkyl substances (PFAS) impacts in their drinking water wells. The BSMC is downgradient of the Former Mather Air Force Base’s and impacted by a PFAS plume. The USAF began supplying bottled water services to the BSMC in April 2020 after they discovered PFAS impacts of perfluorooctanoic (PFOA) and perfluoro octane sulfonate (PFOS) above the United States Environmental Protection Agency (USEPA) Health Advisory (HA) levels. However, the USAF stated they were discontinuing bottled water services due the PFOA and PROS concentrations below the USEPA HA levels in an alternate well also present at the facility. Central Valley Water Board staff did not agree with discontinuing bottled water services because PFAS concentrations still exceeded several state thresholds. Two meetings were held with the BSMC in April 2022. The first meeting was held with leadership of the BSMC, the regulatory agencies (Central Valley Water Board, Department of Toxic Substances Control, and USEPA), and a representative from the OPP. At this meeting, the BSMC expressed several concerns regarding inconsistent communications with the USAF and inadequate water quality and quantity concerns in the replacement well. The second meeting was held a week later and included the USAF. The USAF agreed to better communicate with the BSMC, sample additional locations in the building, and

agreed to continue bottled water service with the caveat that the USAF would reevaluate the need for bottled water services monthly. The outreach by the Central Valley Water Board staff created a positive working relationship between the BSMC and the regulatory agencies and resulted in continued bottled water services for the Church. Central Valley Water Board staff continues to monitor the situation and the changing regulatory guidance regarding PFAS.

On 17 May 2022, George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Greater Battle Creek Watershed Working Group (GBCWWG) meeting. The GBCWWG is generally comprised of various stakeholders such as landowners, Federal and State agencies, regional resource conservation districts and other non-governmental organizations. The purpose of the GBCWWG is to aid in facilitating, identifying, reviewing, and coordinating restoration activities within the watershed. The GBCWWG meets quarterly to discuss items of interest related to activities within the Battle Creek watershed. In efforts to track and prioritize issues of concern to the group they have developed an Issues Tracking Spreadsheet. This spreadsheet is used to highlight concerns that members of the group have and is used to prioritize, track status and resolutions of any issues identified within the group. This quarters meeting participants provided updates to the Issue Tracking Spreadsheet, various project updates and discussed future presentation and field trip opportunities.

*On 2 June, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

*On 3 June 2022, Patrick Pulupa, Adam Laputz, Adriana Ross, Meredith Howard, Adriana Renteria met with United Auburn Indian Community to discuss the State Water Board Racial Equity Action Plan and the Central Valley Regional Water Board's efforts and plans regarding racial equity.

On 16 June 2022, 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. This month's meeting participants discussed a variety of restoration, planning, in stream flow management activities, and funding opportunities. The U.S. Fish and Wildlife Service provided an update on their fisheries monitoring, which included snorkel surveys, juvenile monitoring, and other monitoring activities. The U.S. Bureau of Reclamation (USBR) provided CVPIA funding updates and on flow management operations on Clear Creek. The Wester Shasta Resource Conservation District (WSRCD) provided general updates on their Phase 3B Completion project.

On 22 June 2022, George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in public workshop organized by the City of Chico. This public workshop was to allow participants to learn about the upcoming Upper Bidwell Park Road Sediment Reduction Project. The purpose of this project is to address the discharge of sediment from Upper Bidwell Park roads and trails into Big Chico Creek Watershed. This project is partly being funded through the State Water Resources Control Board's Timber Regulation and Forest Restoration Fund along with matching local funds.

*On 30 June 2022, Meredith Howard, Janis Cooke, and Karen Atkins met with Restore the Delta, Department of Water Resources, and the Delta Stewardship Council to discuss plan for the Delta Stewardship Council's Science For Communities workshop scheduled for 6 October 2022.

*On July 6th, ILRP staff met with representatives from several Environmental Justice Organizations and Thomas Harter to discuss the use of the Nonpoint Source Assessment Tool in the development of the Groundwater Protection Targets.

On 7 July 2022, George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III virtual 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, CalOES grant updates, upcoming California Specialized Training Institute (CSTI) and other regional trainings. Members also discussed membership recruitment for remaining 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.

GENERAL UPDATES TO THE BOARD

CONSTITUENTS OF EMERGING CONCERN (CECS)

In 2016, Central Valley Water Board staff began working with representatives from the Central Valley Clean Water Association (representing publicly owned treatment works or POTWs) and Central Valley Municipal Separate Storm Sewer System agencies (MS4) to develop a work plan in response to State Water Board's Constituents of Emerging Concern (CECs) Statewide Pilot Study Monitoring Plan. The POTW/MS4 group have developed the Central Valley Pilot Study for Monitoring Constituents of Emerging Concern Work Plan (Work Plan) based on feedback from the State Water

Board and Central Valley Water Board staff, which was approved by the Delta Regional Monitoring Program (Delta RMP) in July 2018.

Data for the third event for Year 2 is still under review prior to being fully uploaded to the Central Valley Regional Data Center. Sampling for the fourth event for Year 2 was conducted on 8 June 2022 with the results expected in July 2022 along with the sediment and tissue samples from the first sampling event of Year 2. The Year 2 Data Report is expected to be presented to the CEC Technical Advisory Committee in October 2022. The CEC Technical Advisory Committee is working to complete the study design based on the approved Work Plan and Quality Assurance Project Plan for Year 3 by 1 May 2023 with the goal of beginning sampling by Summer 2023.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – MAY 1, 2022 – JUNE 30, 2022

PROMOTIONS

Sara Gevorgyan, Environmental Scientist

NEW HIRES:

John Childs, Water Resources Control Engineer

Victor Bautista, Environmental Scientist

Jose Lopez, Water Resources Control Engineer

RETIREMENTS:

Brett Braidman, Staff Services Manager I

Susan Fregien, Senior Environmental Scientist (Sup.)

SEPARATIONS:

Greg Hendricks, Environmental Scientist

Taran Sahota, Environmental Scientist

Samantha Soto, Environmental Scientist

Andrew Schaefer, Scientific Aid

Gita Kushwaha, Scientific Aid

Cristina Lopez-Flores, Scientific Aid

SUMMARY OF POSITIONS:

Total Authorized Positions: 276.2

Total Vacant Positions: 16.0

Sacramento

Authorized Positions: 152.5

Vacancies: 9.0

Fresno

Authorized Positions: 74.0

Vacancies: 4.0

Redding

Authorized Positions: 49.7

Vacancies: 3.0

TRAINING UPDATES – MAY 1, 2022 – JUNE 30, 2022

Class Title	Number of Attendees
16-Hour HAZWOPER	9
2022 CALFIRE Certified Archaeological Survey Training Refresher Course	1
2022 National Training Workshop on Water Quality Data, Assessment, and Plans	2
24-Hour HAZWOPER	6
8-Hour HAZWOPER Refresher	4
Adult First Aid/CPR/AED-BL-r.21	3
Annual Refresher 30 CFR Parts 46 and 48 Annual Refresher Training	1
Art & Science of Motivation & Morale	2
Basic Forest Practice	1
Basic Wetland Delineation Training for Dredge or Fill Permitting Staff	1
Building Resilience	4
California Water Boards 7th Annual Water Data Science Symposium & California Water Data Challenge	1
Civil PE Surveying Review	1
Civil Water Resources & Environmental Breadth & Depth Self Study	1
Coaching and Mentoring	2
Contract Management	1
Dealing with Challenging Behaviors	5
Emotional Intelligence in Leadership	1
Field Safety Training	3
Fluvial Geomorphology	6
Implicit Bias: What We Do Not Know	4
Influence, Persuade, Nudge: The Science of Getting People to Take Action	1
Intermediate GIS: Watershed and Groundwater Basin Analysis	1
Intermediate R for Water Resources Data Science: Increasing Your Efficiency with Reproducible Workflows	2

Introduction to GIS	4
Introduction to Hydraulic and Hydrologic Modeling	3
Introduction to R for Water Resources Data Science	4
Introduction to SharePoint for Office 365: Exploring the Water Board's Environment	2
Mastering Grammar	3
Microsoft Excel Level 5: Pivot Tables	9
Microsoft Excel Level 6: Power Pivot	6
Oral Presentation of Technical Information	4
Organizing and Prioritizing for Success	7
Overcome Information Overload	1
PE Civil Water Resources and Environmental Exam Prep	1
Petroleum Hydrocarbon Remediation Principles and Technologies for Soil Vapor and Groundwater	4
Rapid Geomorphic Assessments of Stream Channels Above and Below Culverts and Bridges	7
SDR On-Demand Webinar	1
Seismic Design Review On-Demand Webinars	1
So, You Want to be a Supervisor	2
Stakeholder Engagement	2
Strategies for Collecting Data, Analyzing Data, and Reporting Results	1
Supervisors Guide to Best Hiring Practices	8
The Civil PE Surveying Review Exam	1
Transport and Fate of Metals in Soil and Groundwater	6
U.S. Environmental Protection Agency NPDES Basic Permit Writers Course	1
Virtual Air Force Western Regional Environmental Restoration Summit	1
Webinar 22WEB-4 - 2022 ASBOG Exam Review Course	1
Wetland Delineation Training	2

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
21-060-150	Microbiology International	Rancho Cordova Autoclave Service and Repair	10/13/2021	6/30/2022	\$9,275
22-025-150	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)	TBD	6/30/2025	\$59,999.60

Water Quality Study/Planning

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
19-033-150-1	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	9/30/2022	\$525,000
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

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
20-034-150	University of Santa Cruz	Determine the extent of beneficial use impairments caused by cyanobacteria harmful algal blooms (HABs) and toxins produced by the cyanobacteria, called cyanotoxins.	4/15/2021	1/31/2023	\$200,000
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
23-005-150	TBD	NPS Training Module Development.	7/1/2023	6/30/2026	\$200,000

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 2022 BOARD MEETING

NPDES PERMITTING

- Linda County Water District WWTP Renewal
- Sacramento Regional County Sanitary District SRWTP Permit Amendment
- City of Jackson WWTP Permit Amendment
- City of Davis WWTP Permit Amendment

DECEMBER 2022 BOARD MEETING

NPDES PERMITTING

- Municipal General Order Renewal
- Boeing GWETS Renewal
- Mountain House CSD WWTP Amendment
- City of Tracy Renewal
- RMK Mine Renewal
- Aerojet Permit Amendment

FEBRUARY 2023 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Boundary Bend Olives (Revised)
- City of Dinuba WWTF (Revised)

NPDES PERMITTING

- Reynolds Molded Pulp Mill Renewal
- Shasta CSA #17 Cottonwood WWTP Renewal
- CA Dept of Parks and Rec Malakoff Diggins Historic Park Renewal
- Mount Shasta City WWTP Renewal
- Cutler-Orosi JT Powers WW Authority WWTF Renewal

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Ventura Coastal Corporation (Revised)

NPDES PERMITTING

- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- American Valley CSD WWTP Renewal

- City of Colfax WWTP Renewal
- City of Redding Stillwater WWTF Renewal
- CCWD Copper Cove WWTP Renewal
- CCWD Forest Meadows WWTP Renewal
- Tehama CSD #1 Mineral WWTP Renewal
- City of Red Bluff WW Reclamation Plant Renewal
- City of Jackson WWTP Renewal
- Bear Valley CSD WWTF Permit Rescission
- City of Stockton RWCF Permit Amendment
- Aerojet GWTS Permit Amendment
- City of Lincoln WWTP Permit Amendment
- CDCR Deuel Vocational Institution Permit Amendment
- City of Brentwood WWTP Permit Amendment

ATTACHMENT A

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 May 2022 through 30 June 2022

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	73	53%
Debris-General	25	18%
Debris-Rags	7	5%
Grease Deposition (FOG)	7	5%
Pipe Structural Problem/Failure	6	4%
Debris-Wipes/Non-Dispersables	4	3%
Pump Station Failure-Controls	3	2%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	2	1%
Debris from Construction	2	1%
Operator Error	2	1%
Other (specify below)	2	1%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	1%
Debris from Lateral	1	1%
Pipe Structural Problem/Failure - Installation	1	1%
Pump Station Failure-Mechanical	1	1%
Pump Station Failure-Power	1	1%
Vandalism	1	1%
Total	140	100.0%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 May 2022 through 30 June 2022

Office	Category 1	Category 2	Category 3	Total
5F	1	3	11	15
5R	1	0	1	2
5S	9	5	108	122
Total	11	8	120	139

ATTACHMENT A

- 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).
- 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) – 1 May 2022 through 30 June 2022

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Regional CSD	Sacramento Regional CS	881181	Category 1	Sacramento	Yes	22,390	11,178	1
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	881857	Category 1	Sacramento	Yes	3,007	1,953	1
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	881250	Category 1	Sacramento	Yes	2,000	1,172	1
5S	Nevada CSD No 1	Lake Wildwood CS	881464	Category 1	Nevada	Yes	1,700	1,546	1

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5F	USDI National Park Service Sequoia & Kings Canyon	Cedar Grove CS	881865	Category 1	Fresno	Yes	1,200	600	1
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	881300	Category 1	Sacramento	Yes	655	495	1
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	881537	Category 1	Sacramento	Yes	454	335	1
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	881970	Category 1	Sacramento	Yes	390	360	1
5R	Shasta Lake City	Shasta Lake CS	881153	Category 1	Shasta	Yes	180	180	1
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	882059	Category 1	Sacramento	Yes	137	100	1
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	881227	Category 1	Sacramento	Yes	93	66	1