

**EXECUTIVE OFFICER'S REPORT
15/16 OCTOBER 2020**

**California Regional Water Quality Control Board
Central Valley Region**

Patrick Pulupa, Executive Officer



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SUCCESS STORIES

IRRIGATED LANDS REGULATORY PROGRAM

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

In August, the Executive Officer approved completion of three surface water management plans for the Sacramento Valley Water Quality Coalition (Coalition):

- Copper in Lower Honcut Creek
- Copper in Pine Creek
- Chlorpyrifos in Pine Creek

The implemented management plans successfully eliminated water quality problems 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: following pesticide label restrictions and county permits, monitoring wind direction and rain events before applying pesticides, and using cover crops and minimum tillage to reduce sediment and erosion. 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.

REDDING

PACIFIC PRIDE AST FACILITY, CASE SLT5R991, SHASTA COUNTY

This case involves an active cardlock fueling facility. In January 2004, an estimated 171 gallons of gasoline was spilled when a vehicle drove away with the dispenser handle still inserted. Gasoline entered the storm drain and an oil-water separator. Gasoline-impacted soil was discovered during the removal of the oil-water separator and near the above-ground storage tanks. Approximately 2,535 tons of contaminated soil (an estimated 6,900 pounds of petroleum) was removed from the site during removal actions conducted in 2005 and 2007. A short-term soil vapor extraction pilot test conducted in 2013 removed a minimal quantity of petroleum-related contaminants. Investigations conducted between 2005 and 2018 defined the extent of contamination and determined that remaining contaminant levels are below Low-Threat Closure Policy criteria and do not pose a threat to human health and the environment. Staff closed the case in August 2020.

FRESNO

ALTA SELF-SERVE, 833 EAST MANNING AVENUE, REEDLEY, FRESNO COUNTY

The Site was a commercial fuel facility that sold petroleum products, and currently sells only propane. Alta removed the USTs during May 1994 and February 1999, and soil samples obtained during the removals contained petroleum constituents. The case was referred to the Central Valley Water Board for regulatory oversight in November 2007. From March 2015 through November 2018, Alta removed approximately 5,750 pounds (935 gallons) of total petroleum hydrocarbons as gasoline (TPHg) via soil vapor extraction (SVE). Alta conducted groundwater monitoring from January 2011 through November 2019 and the most recent groundwater samples contained non-detect to trace concentrations of petroleum hydrocarbons. The Site has been remediated to the extent practicable and any remaining petroleum hydrocarbons at the Site should continue to naturally attenuate and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The case met the Low-Threat Closure Policy criteria and was closed on 28 July 2020.

AMIGO MINI-MART, 10014 SOUTH ALTA AVENUE, REEDLEY, FRESNO COUNTY

The Site was a commercial fuel facility that sold petroleum products and is currently unoccupied. The local agency referred the case to the Board on 17 July 2006. Amigo conducted site assessment from July 2012 through September 2013 to evaluate the extent of petroleum hydrocarbons in soil, soil gas, and groundwater. Assessment included sampling domestic wells within 500 feet of the Site, which did not contain detectable concentrations of petroleum hydrocarbons. Amigo operated an SVE system between February 2015 and October 2017 that removed approximately 10,300 pounds (1,700 gallons) of TPHg. Amigo conducted groundwater monitoring from July 2012 through May 2018 and the most recent groundwater samples contained non-detect to trace concentrations of petroleum hydrocarbons. The Site has been remediated to the extent practicable and any remaining petroleum hydrocarbons at the Site should continue to naturally attenuate and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The case met the Low-Threat Closure Policy criteria and was closed on 4 August 2020.

FARM RESIDENCE, 6645 EAST HARVEY AVENUE, FRESNO, FRESNO COUNTY

The Site is an agricultural property planned for commercial development. One 500 gallon and one 1,000-gallon UST were removed, and the local agency opened a case in 1989 after there was evidence of a release during the UST removals. During preparation for a 2019 property transfer, the responsible party conducted two investigations to assess the extent of petroleum hydrocarbons in the subsurface. Gasoline constituents extended to a depth of approximately 35 feet and the responsible party excavated eighty-three tons of impacted soil and transported it offsite for disposal. The release lacked the mass and mobility to migrate to groundwater, which is at a depth of approximately 80 feet. The case was closed on 24 June 2020 in accordance with the Low-Threat Closure Policy.

VALLEY TRUCK WRECKING, 10764 SOUTH ALTA AVENUE, DINUBA, FRESNO COUNTY

The Site is a vehicle junk and salvage yard that removed its UST in April 1990 and had elevated petroleum constituents in soil samples obtained during the removal. The local agency referred the case to the Central Valley Water Board in 2004. Valley conducted soil, soil gas, and groundwater assessment from June 2009 through April 2018, and operated an SVE system from October 2013 through January 2017, which removed approximately 4,500 pounds (700 gallons) of TPHg. Groundwater monitoring was conducted from August 2012 to February 2013 and from August 2013 to May 2018 from deeper wells and the most recent groundwater samples contained non-detect to trace concentrations of petroleum hydrocarbons. Petroleum constituents were not detected in domestic wells within 500-feet of the Site. Any remaining petroleum hydrocarbons should continue to naturally attenuate and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The case met the Low-Threat Closure Policy criteria and was closed on 14 August 2020.

FASTLANE MINI -MART, 201 ELMO HIGHWAY, MCFARLAND, KERN COUNTY

The Site is an active mini-mart with fuel sales. Fastlane discovered a release during its UST system replacement in 2004. An unknown hydrocarbon mass was excavated to 10 feet bgs during UST replacement. Fastlane conducted groundwater monitoring through 2012 and did not have petroleum hydrocarbon detections after 2010. Fastlane removed approximately 20,300 pounds (3,300 gallons) of fuel constituents by SVE and air sparging from early 2010 through early 2013. The State Water Board, Underground Storage Tank Cleanup Fund (Cleanup Fund) directed case closure in a Review Summary Report signed on 6 July 2015. State Water Board Order WQ 2017 0024 – UST, signed on 16 October 2017, required well destruction and closure. The wells were destroyed in January 2020 and investigation waste disposal completed in May 2020. The Cleanup Fund manager signed a Remedial Action Completion Certification closing the case on 4 September 2020.

KINGS COUNTY PUBLIC WORKS YARD, 18324 IONA BOULEVARD, LEMOORE, KINGS COUNTY

The Site was formerly a Kings County Public Works Department Road Yard. Kings County discovered a release when it removed gasoline and diesel USTs in 1987. More than two feet of liquid phase hydrocarbons (aka free product) accumulated in the monitoring wells over a widespread area. During 1991 and 1992, Kings County removed more than 3,650 pounds (600 gallons) of product, but product remained in some wells through the 1990s. Kings County excavated approximately 4,000 cubic yards of overburden and petroleum impacted soil a depth of 15 feet during late 2004, extending up to two feet into groundwater. However, petroleum impacted soil in underground utility corridors was not removed, resulting in persistent elevated benzene concentrations in groundwater. Based on groundwater monitoring through early 2018, the length of the petroleum plume in groundwater had decreased from about 200 feet to less than 100 feet. The case was closed in accordance with the Low-Threat Closure Policy on 28 July 2020.

DINUBA HIGH SCHOOL, 1198 EAST MAGNOLIA WAY, DINUBA, TULARE COUNTY

The Site was formerly a market with retail fuel sales and is currently a vacant area on the Dinuba High School property planned for tennis courts. A release was discovered during 2004 when a gasoline UST was removed. Investigation to evaluate the extent and concentration of gasoline constituents in soil and groundwater was conducted from 2004 through 2016. Pilot testing and interim and permanent multiphase extraction systems removed approximately 28,000 pounds (4,550 gallons) of gasoline constituents from the vadose and saturated zones from 2011 through 2016. Shallow soil and soil gas sampling conducted during late 2016 confirmed that human health risk from the remaining contaminants was less than the level of concern. Water quality objectives will be met in a reasonable time period. The case was closed on 20 July 2020 in accordance with Low-Threat Closure Policy criteria.

SACRAMENTO

KING ISLAND RESORT, 11530 W. EIGHT MILE ROAD, STOCKTON, SAN JOAQUIN COUNTY

King Island Resort (KIR; Site), a marine petroleum fueling facility, is located along White Slough in the Sacramento/San Joaquin River Delta and is. KIR historically operated three fuel USTs: one 2,000-gallon gasoline UST (Tank 1), one 6,000-gallon gasoline UST (Tank 2), and one 4,000-gallon diesel UST (Tank 3). KIR conducted an investigation in March and April 1989 that detected petroleum hydrocarbons in soil and groundwater. KIR removed Tank 1 and associated piping in July 1991 and removed Tanks 2 and 3 and associated piping in March 1999. To assess the extent of the release, KIR advanced 44 soil and groundwater borings, and installed 15 groundwater monitoring wells. KIR performed a 6-month ozone injection pilot test between February and August 2011. Site conditions met the General and Media-Specific criteria for case closure under the Low-Threat Closure Policy, and Central Valley Water Board staff closed the case on 17 August 2020.

AMERICAN MEDICAL RESPONSE WEST, 2060 E. MAIN STREET, STOCKTON, SAN JOAQUIN COUNTY

In 1988, American Medical Response West (AMR West) removed a waste oil UST from beneath the current location of the Site building. AMR West believed an historic fuel UST was beneath another part of the property. In 2015, AMR West performed a ground-penetrating radar (GPR) survey of the Site, but did not find another UST beneath the property. To assess the extent of the release, between 1993 and 2018 AMR West collected two tank excavation soil samples drilled six soil borings, and installed three groundwater monitoring wells. Petroleum hydrocarbons have naturally attenuated, and Site conditions met the General and Media-Specific criteria for case closure under the Low-Threat Closure Policy. On 31 August 2020, Central Valley Water Board staff closed the case.

PACHECO OIL, 740 2ND STREET, LOS BANOS, MERCED COUNTY

The Site was formerly a bulk fuel storage facility but is currently the northwestern end of the Los Banos Rail Trail walking path. Pacheco Oil detected a release in 1991 when its USTs were removed. Merced County Department of Public Health (MCDPH) oversaw investigation activities between 1991 and 2013, when the Central valley water Board became lead regulatory agency. In October 2016, a passive biovent treatment system was installed, and groundwater no longer contains petroleum hydrocarbons above laboratory detection limits. Therefore, residual petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate. Central Valley Water Board staff closed the case on 25 August 2020.

UNOCAL #5179 (SECOND CASE), 1411 V STREET, MERCED, MERCED COUNTY

The Site is a retail fuel and automotive service center near Highway 99. Between 1992 and 1996, UNOCAL investigated and remediated a petroleum hydrocarbon release and received regulatory closure from MCDPH. During a due diligence assessment, Conoco identified additional petroleum hydrocarbon impact to groundwater and Central Valley Regional Board staff opened a second case. Conoco coordinated several soil, soil gas, and groundwater investigations and concluded the Site met the conditions of the Low-Threat Closure Policy. Central Valley Water Board staff concurs with Conoco and closed the case on 25 August 2020.

SITE CLEANUPS

REDDING

UNION PACIFIC RAILROAD COMPANY, DUNSMUIR RAILYARD, NORTH FUELING FACILITY, SISKIYOU COUNTY

Staff are working with the Union Pacific Railroad Company (UPRR) in its efforts to comply with the requirements of Cleanup and Abatement Order (CAO) R5-2019-0713. UPRR anticipates completing field work for the Upland/Riparian portion of the Comprehensive Site Investigation by the end of September 2020. Staff are working on a second revision to the CAO's Monitoring and Reporting Program to optimize the groundwater monitoring program based on data collected over the past year. UPRR continues to implement interim control measures to address non-aqueous phase liquid (NAPL) discharging to the Sacramento River while a comprehensive remedy is developed and implemented (construction of initial remedial phase is projected for 2024). Interim control measures include hard and soft booms in the river and an oleophilic bio-barrier (OBB) covering the walkway next to the river. UPRR's consultants deployed the OBB in November 2019 and are currently in the field replacing portions of the OBB and installing enhancements to the original design. Staff are working with representatives from the California Department of Fish and Wildlife and the U.S. Environmental Protection Agency to address concerns about the effectiveness of the OBB based on recent inspections. [Contact: Kate Sjoberg at (530) 224-3218]

FORMER SHASTA PULP AND PAPER MILL, ANDERSON, SHASTA COUNTY

Staff are providing oversight for an investigation of the potential water quality threats associated with the former Shasta Pulp and Paper Mill site. The \$1.2M investigation is funded by the State Water Resources Control Board (State Water Board) Site Cleanup Subaccount Program (SCAP). Between October and December 2019, a State Water Board contractor completed the Phase I Investigation field work. In July 2020, the contractor submitted a combined report of the Phase I findings and Phase II Work Plan. The Phase I results reported elevated concentrations of dioxins, petroleum, volatile organic compounds, and metals in soil, soil vapor, and groundwater. During Phase II, the detected pollution will be further characterized with 15 soil vapor wells, 24 soil borings, and 11 temporary groundwater monitoring wells. One of the groundwater

monitoring wells will target the 160-foot deep aquifer used by surrounding domestic supply wells. On 2 September 2020, Shasta County Superior Court issued a forcible entry inspection warrant allowing site access for the Phase II work which is scheduled to begin on October 1st. [Contact: Bill Bergmann at (530) 224-4852]

MODERN CLEANERS, CORNING, TEHAMA COUNTY

Staff are overseeing an investigation of the potential water quality and vapor intrusion threats associated with a release of perchloroethylene (PCE) from former dry cleaners and other sources along Solano Street in the City of Corning. The investigation is funded by the State Water Board SCAP. During June 2020, the consultant completed Phase 2 investigation activities, including soil vapor and grab groundwater sampling. Elevated PCE concentrations were reported in soil gas adjacent to occupied residences and commercial buildings and may pose a vapor intrusion risk to the occupants. In July 2020, staff sent a letter, community survey, and vapor intrusion fact sheet to owners and occupants of properties near locations of elevated PCE concentrations. In August 2020, staff and management discussed the groundwater investigation results and anticipated next steps with local authorities. More investigation is needed to determine the possible health risk from PCE vapors that may be entering buildings. Staff have been working with SCAP to develop a scope of work and cost estimate for a Phase 3 investigation. The contract amendment for the Phase 3 work is expected to require approximately six months to execute. [Contact: Bill Bergmann at (530) 224-4852]

STAFF RECOGNITION

SUPERIOR ACCOMPLISHMENT AWARDS

At the 13/14 August 2020 Board Meeting, Executive Officer Pulupa presented Superior Accomplishment Awards to the following staff:

Employee: Harihar Nepal

Unit: Cannabis Permits

Location: Redding

Title: Environmental Scientist

Supervisor: Elizabeth Betancourt, Senior Environmental Scientist

Harihar Nepal has been selected to receive this Superior Accomplishment Award for his contributions to the Central Valley Water Board. Harihar Nepal was hired in March 2018 to join the Cannabis Permitting and Compliance Unit (CPCU) in the Redding office as an Environmental Scientist. He came with great experience in water quality science as well as regulation, and immediately helped in shaping the nascent cannabis permitting effort through the State Water Board's new General Order.

Harihar's contributions to the CPCU and to the larger Central Valley Water Board are significant and appreciated: he's helped us to streamline our inspections, has communicated positively and proactively with the jurisdictions for which he has responsibility, and communicates firmly and effectively with his Dischargers. He's been

especially valuable to us during the COVID-19 crisis, however, by stepping up his level of responsibility and the projects he's managing.

Harihar's leadership during the COVID-19 crisis has significantly contributed to a smooth transition of the CPCU's work to a remote/work-from-home (WFH) model. Harihar established SharePoint folders and templates promoting our continued effectiveness in permitting and regulating applicants, and he continues to support the adaptation of these materials as our needs evolve. We've had a significant additional workload related to vacancies and COVID-19-related unit absences, and Harihar has taken on significant additional workload: he's spearheading our enrollment enforcement effort, which always comes with significant Discharger questions and communication, as well as deadlines for first and second notices. Harihar has also taken on a number of enforcement cases so that they will continue to progress even as COVID-19 limits our staffing and in-office capabilities. He has managed all of this with an excellent attitude and with the attention that our work requires.

These are just a few examples of the excellent work Harihar takes on voluntarily. His reliability, great sense of humor, and stoicism in the face of challenge are all qualities that make him a wonderful team member and a pleasure to have as a colleague. We are incredibly lucky to have Harihar as part of the Water Board family, and anticipate an innovative, scientifically robust, and dynamic future with him on the team! In the meantime, we're so happy to award Harihar Nepal this Superior Accomplishment Award. Thank you, Harihar!

Employee: Kristen Gomes

Unit: Title 27

Location: Fresno Office:

Title: Water Resource Control Engineer

Supervisor: Scott Hatton, Supervising Engineer

Kristen is receiving this award because she performed beyond her normal job duties in keeping the Title 27 Program work moving forward in recent months in the absence of the senior of the unit and other staff vacancies. Kristen participates in monthly Title 27 and composting internal meetings, assists with the review of California Environmental Quality Act (CEQA) documents for landfills, and assumes the lead technical role for preparing a Title 27 WDR completed by Fresno staff for assistance with Rancho Cordova staff. Kristen also conducted a drive-by inspection of the Avenal Landfill and surrounding community, on short notice, in response to complaints from concerned citizens. She was able to complete that drive-by inspection in time for management to report back to an Environmental Justice group for Kings County. Specific tasks she addressed during the month, include the following:

- Review of a Notice of Intent for coverage under the composting general order,
- Review of a Construction Quality Assurance Report for the Composting General Order and a landfill,
- Six reviews of Financial Assurance letters for landfills,

- Review of groundwater monitoring well installation workplan,
- Review of a landfill Phase 4 expansion,
- Multiple inspection report letters

Kristen consistently provides excellent work that is completed in a timely manner.

EMPLOYEE RECOGNITION AWARDS (ERAs)

Employee: Bill Bergmann

Unit: Groundwater

Location: Redding

Title: Engineering Geologist

Supervisor: Kate Burger

Bill Bergmann is an Engineering Geologist in the Central Valley Water Board's Redding office, working on Underground Storage Tank and Site Cleanup Program cases. Bill is receiving the September Employee Recognition Award for his efforts on two investigations funded by the Site Cleanup Subaccount Program (SCAP) which have been on-going for several years. In addition to providing regulatory and technical oversight of the projects, he has managed the contracts associated with both projects.

For the first project, Bill recently oversaw the second phase of investigation of tetrachloroethylene (PCE) contamination along Solano Street in Corning. In May and June 2020, investigation activities in the public rights-of-way found PCE levels in soil vapors that may create a health concern if inhaled for many years. Bill presented the findings to local agencies to keep them apprised of the situation. After evaluating the data and conferring with the Office of Environmental Health Hazard Assessment toxicologist, he compiled a detailed scope of work for a third phase of investigation to assess the vapor intrusion pathway. Efforts to obtain funding for this work are still underway.

At the same time, for the second project, Bill has been working with the consultant on the investigation of the former Shasta Pulp and Paper Mill in Anderson. This project has been particularly challenging because the property owner has been non-responsive for years which has necessitated obtaining multiple inspection warrants from the Shasta County Superior Court in order to access the site. In addition, site hydrogeologic conditions have complicated the investigation. The consultant finalized the report presenting the Phase 1 results and Phase 2 work plan in late July after addressing Bill's comments. Investigation activities resume on October 1 and are expected to require six weeks to complete.

These projects would not have happened but for Bill's tenacity and commitment, as evidenced by the fact that he has continued to advance both investigations even during the current pandemic. Both projects are expected to answer long-standing questions regarding the extent to which site conditions threaten human health and water quality in

these rural, disadvantaged communities. Bill's efforts are very much appreciated by the Redding office management team.

Employee: Sammantha (Sammy) Mello
Unit: Pesticides and Eutrophication TMDL Unit
Location: Rancho Cordova
Title: Environmental Scientist
Supervisor: Danny McClure

Since joining the Pesticide TMDL Unit as an Environmental Scientist in September 2018, Sammy has made numerous valuable contributions to the TMDL program, including completion of the Pyrethroids TMDL administrative record, support for the Delta Regional Monitoring Program, and completion of a draft Diazinon and Chlorpyrifos TMDL implementation staff report.

In December 2019, due to a unit vacancy, Sammy was given a challenging new assignment - taking the lead on implementing the Pyrethroids TMDL. She quickly came up to speed on understanding this complex TMDL and the multiple Board regulatory programs the TMDL is implemented through. Sammy applied her organizational skills and developed multiple tools that help manage the TMDL implementation. Her work has been critical for keeping the complex and challenging implementation of the Pyrethroid TMDL program on track.

In April 2020, Sammy completed the review of 3 new laboratory analytical methods for quantifying pyrethroids at low concentrations and provided documentation for EO approval of these methods. These methods are now available for dischargers to use in required compliance monitoring.

Sammy is excellent at organizing and presenting complex information. In July she gave she gave two great presentations at the NPDES and Planning kickoff meetings on the same day! Sammy is very conscientious and enthusiastic about her work, provides prompt and courteous responses to stakeholders, and is a critical part of the team. For these reasons, we are fortunate to have Sammy working at the Central Valley Water Board and she is well deserving of this award.

Employee: Kyle Johnson
Unit: Storage Tanks
Location: Rancho Cordova
Title: Engineering Geologist
Supervisor: Joe Mello

Kyle is receiving this award for his work across multiple programs, including storage tank cleanups, site cleanups, and mines.

During our recently completed fiscal year, Kyle successfully brought 20% of his underground storage tank (UST) cases to closure, well above the statewide closure rate and 60% above his work plan commitment. While seeing sites through cleanup and ultimate closure is an important aspect of his job, he also more than doubled his

workplan commitment in moving cases from site assessment to remediation, ensuring these cases move closer to cleanup.

Kyle was able to accomplish this although his caseload shifted from working full-time on USTs to working half-time on mine and site cleanup cases and half time on USTs in January. With his experience working in the mining industry before he joined the Water Boards, his supervisors correctly decided that he would excel working on abandoned mine cleanups.

Kyle has been assigned moribund abandoned mine cases that require a greater amount of time than our typical cases to get them moving toward cleanup. Working with staff experienced in geographic information system (GIS) mapping, Kyle is working to graphically compile water quality data at these abandoned mine sites in a form that is easier to analyze

Kyle's contributions to the Storage Tanks section continue to exceed our expectations and he is deserving of this recognition.

Employee: Paul Wadding
Unit: NPDES Compliance and Enforcement
Location: Rancho Cordova
Title: Water Resource Control Engineer
Supervisor: Xuan Luo

Paul Wadding is a Water Resource Control Engineer in the NPDES/Forest Activities unit in the Compliance and Enforcement section. Paul joined the Board in March 2019 with more than 20 years of experience in environmental consulting.

- Paul oversees more than 20 NPDES facilities in the Region. He conducts inspections at wastewater treatment facilities, reviews reports submitted by dischargers, and prepares enforcement orders.
- Many of Paul's facilities are small disadvantaged communities with financial hardship. Paul works diligently and patiently with the dischargers and develops viable solutions to bring them back to compliance. Recently, Paul developed an Administrative Civil Liability Order for the Nevada City Wastewater Treatment Plant that included a Compliance Project consisting of several wastewater treatment plant modifications and optimization tasks to improve effluent water quality and minimize effluent violations.
- Currently, Paul is working on multiple complex enforcement cases, including compressed Administrative Civil Liability Orders with for sanitary sewage spills, and a Stipulated Order with a Supplemental Environmental Project.
- Paul brings to the unit extensive technical knowledge in design and construction. He takes on every challenge with enthusiasm, initiative, and a great attention to detail.
- For all this and more, Paul is receiving the Employee Recognition Award.

Employee: Brittany Elliott
Unit: Admin
Location: Rancho Cordova
Title: Associate Government Program Analyst
Supervisor: Brett Braidman

Brittany Elliott has worked for the Regional Waterboard for one year. She serves as an Associate Governmental Program Analyst in the Operations Unit in the Rancho Cordova office. Brittany is deserving of this recognition for her consistently high-quality and accurate work products, her positive attitude, her incredible professionalism and work ethic, not to mention those big shoes she filled when replacing Steve Thompson as the Region 5 Personnel Liaison.

Brittany is very approachable and very knowledgeable in HR practices and protocols. Brittany's friendly demeanor, grace under pressure, and her excellent work ethic to assist staff in each office does not go unnoticed. In a brief time, Brittany has recommended valuable changes in Region 5 HR practices, developed valuable position HR reports, been a valuable resource in navigating the challenging eRPA process, and offers great help in updating vacancy reports, organizational charts, the eRPA Tracker and more. Also, Brittany is taking on the challenge of the many Region 5 retirements to go along with other HR paperwork that comes her way including closeouts, transfers, promotions and a steady stream of HR and benefits questions --- all the while maintaining an excellent attitude, friendly demeanor and reinforcing the customer service goal of the overall Admin team.

Brittany has made excellent suggestions to Admin management on how to improve HR practices, followed through on her workload, and went above and beyond by producing a high-quality work product that was both superb and timely. One of the hallmarks of excellence is the unsolicited praise Admin supervisors have received from various staff who have been helped by Brittany. When you are in close contact with many staff, it is important that you put staff at ease as you deal with their personal and confidential information. Brittany accomplishes this with extreme professionalism, making staff feel comfortable as they pass along personal information. Brittany filled big shoes indeed, then she started creating her own Region 5 legacy unique to her own gifts.

In summary, Brittany's tremendous work ethic, ability, drive and professionalism is a blessing to Admin and Region 5 overall. Brittany Elliott is very deserving of this award.

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 of 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.

**Enforcement Table 1 – Central Valley Enforcement Orders
(1 JULY 2020 THROUGH 31 AUGUST 2020)**

Action Date	Agency	County	Notes
7/7/2020	Colusa City	Colusa	ACL R5-2020-0522 in the amount of \$21,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
7/7/2020	Grass Valley City	Nevada	ACL R5-2020-0530 in the amount of \$3,000 addresses MMPs for an effluent limit violation. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
7/7/2020	Turlock City	Stanislaus	ACL R5-2020-0524 in the amount of \$6,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
7/29/2020	Harbert Oil	Lassen	13267 Order issued to the Discharger in order to investigate suspected unauthorized discharges of waste to water of the State and to investigate the extent of pollution in a groundwater supply and impairment of beneficial uses. The Order requires the Discharger to submit technical reports.
8/4/2020	Manteca	San Joaquin	ACL R5-2020-0525 in the amount of \$6,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.

Action Date	Agency	County	Notes
8/4/2020	Galt City	Sacramento	ACL Order R5-2019-0520 imposes a penalty in the amount of \$110,715 for violations of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems Order No 2006-0003-DWQ. Of that amount, \$55,357 shall be suspended pending the completion of an Enhanced Compliance Action (ECA) as set forth in Attachment B of the Order. The remaining \$55,358 shall be paid to the State Water Board's Cleanup and Abatement Account.
8/4/2020	Modesto City	Stanislaus	ACL R5-2020-0523 in the amount of \$18,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution by the Central Valley Water Board's Executive Officer.
8/7/2020	Plumas County	Plumas	13267 Order issued to the Discharger for failure to comply with the 11 February 2020 Notice of Violation (NOV) which required the Discharger to submit the Corrective Action Cost Estimate Technical Report (Report). The report is required under Title 27 section 22221. The Order requires the Discharger to submit the Corrective Action Cost Estimate.
8/13/2020	Setton Properties, Inc.	Tulare	CDO R5-2020-00038 issued to the Discharger for objectionable odors complaints that Board staff received because of high-BOD wastewater discharged to the storage/treatment ponds. The Order requires the Discharger to immediately cease and desist generation of objectionable odors at the Facility, eliminate all nuisance condition in, or arising from discharges to the treatment/storage pond.

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 July 2020 through 31 August 2020. From a statewide perspective, Region 5 is responsible for 26% of the enforcement actions tracked in CIWQS during this period including 94% of all 13267 Orders, 50% of all ACLs, and 21% of all NOV's.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS
(1 JULY 2020 THROUGH 31 AUGUST 2020)**

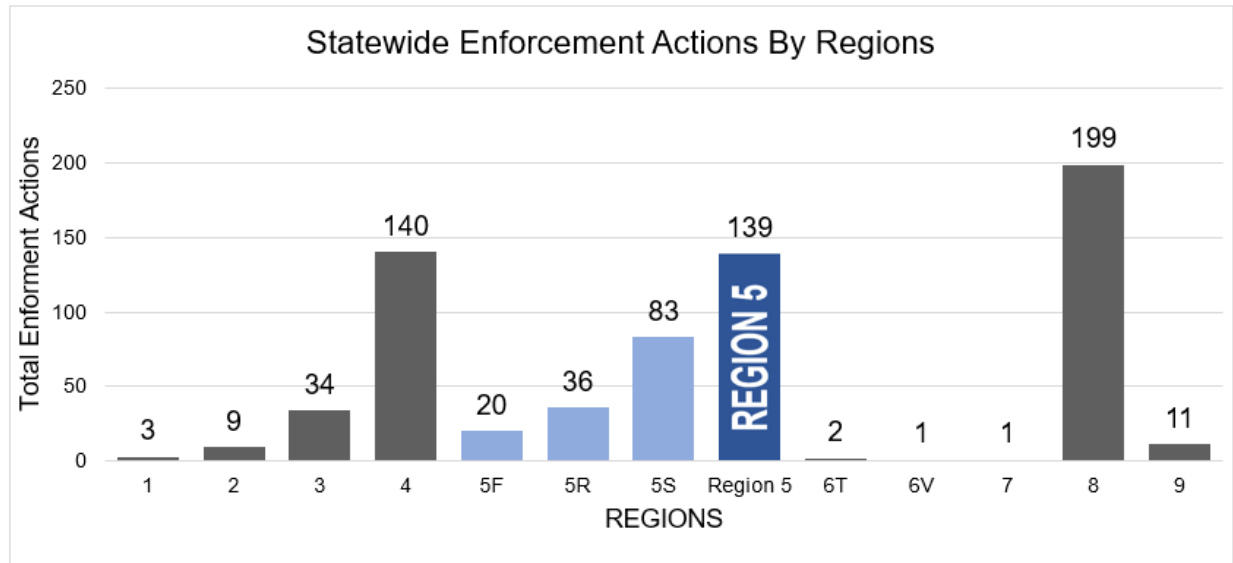
Region	13267	NNC	ACL	CDO	EPL	NOV	SEL	TSO	VER	Total
1	0	0	0	0	0	3	0	0	0	3
2	0	1	3	0	0	0	5	0	0	9
3	0	17	1	0	0	15	1	0	0	34
4	1	14	0	0	5	120	0	0	0	140
5F	11	0	0	1	0	5	0	1	2	20
5R	11	0	0	0	0	24	0	0	1	36
5S	46	20	6	0	0	9	0	0	2	83
Region 5	68	20	6	1	0	38	0	1	5	139
6T	0	0	0	0	0	0	2	0	0	2
6V	0	0	0	0	0	1	0	0	0	1
7	0	0	0	0	0	0	0	1	0	1
8	0	178	0	0	0	1	12	1	7	199
9	3	0	2	0	0	4	2	0	0	11
Total	72	230	12	1	5	182	22	3	12	539

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
- EPL - Expedited Payment Letter
- ACL - Administrative Civil Liability
- NTC - Notice to Comply

STATEWIDE ENFORCEMENT ACTIONS BY REGION



Enforcement Figure 1: Enforcement Actions: Summarizes Statewide Enforcement Actions (reported in CIWQS)

In addition to the above, Enforcement Table 3 below summarizes enforcement actions recorded in GeoTracker and not in CIWQS:

Enforcement Table 3 – Region 5 Enforcement Actions REPORTED in GeoTracker (1 July 2020 through 31 August 2020)

Region	13267 Order	CDO	Letter-Notice	NOV	Warning Letters	Total
5F	8	1	4	2	1	16
5R	2	0	0	2	0	4
5S	0	0	361	1	0	362
Total	10	1	365	5	1	382

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 July 2020 through 31 August 2020, a summary of those enforcement actions are included in Table 4, below.

Enforcement Table 4 – REGION 5 ILRP ENFORCEMENT ACTIONS (1 July 2020 through 31 August 2020)

Region	Water Code Section 13260 Letters/Directives for Failure to Enroll in ILRP	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	NOVs for Failure to Submit the Notification Template for exceedance of drinking water well	Total
5F	0	0	0	0
5R	0	0	0	0
5S	32	254	0	286
Total	32	254	0	286

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 a 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 July 2020 through 31 August 2020, there were no reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

SSO SUMMARY DATA

For the reporting period between 1 July 2020 through 31 August 2020, there were 106 total SSO spills: 9 Category 1, 9 Category 2, and 106 Category 3 spills.

Total Sanitary Sewer Overflow

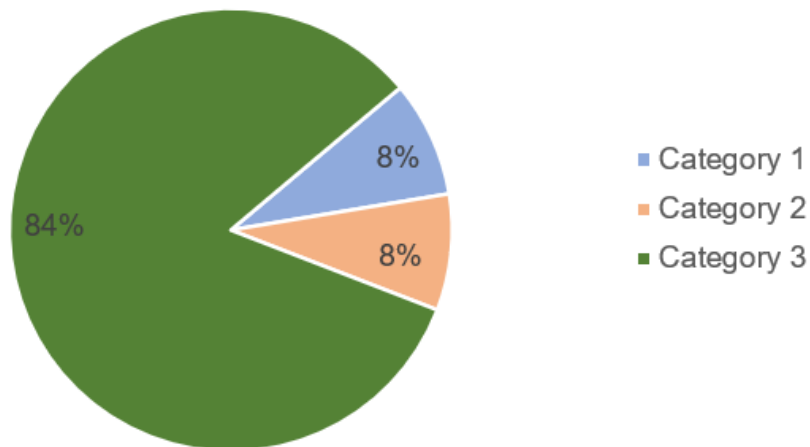


Figure 2: Central Valley Sanitary Sewer Overflow Summary (1 July 2020 through 31 August 2020)

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 in the State Water Board's CIWQS database pursuant to the requirements of SSS General Order.

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

Central Valley Water Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 July 2020 through 31 August 2020, Central Valley Water Board staff received a total of **46 complaints** via phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/) (<https://calepacomplaints.secure.force.com/complaints/>). To date, 43 (93%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining three 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)

In lieu of assessing all or a portion of the mandatory minimum penalties pursuant to Water Code section 13385 (k) subdivisions (h) and (i) against a publicly owned treatment works serving a small community with financial hardship, the regional board may elect to require the discharger to spend an equivalent amount towards the completion of a CP proposed by the discharger if the regional board finds the CP is designed to correct the violations within five years, is in accordance with the enforcement policy of the state board, and the publicly owned treatment works has prepared a financing plan to complete the compliance project. Supplemental Environmental Project (SEP)

A settling party may offset a portion of the monetary liability of an ACL penalty by voluntarily choosing to fund SEPs 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.

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 2020 through 31 August 2020, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$170,715 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$55,357 was allocated for SEPs (see Figure 3 below).

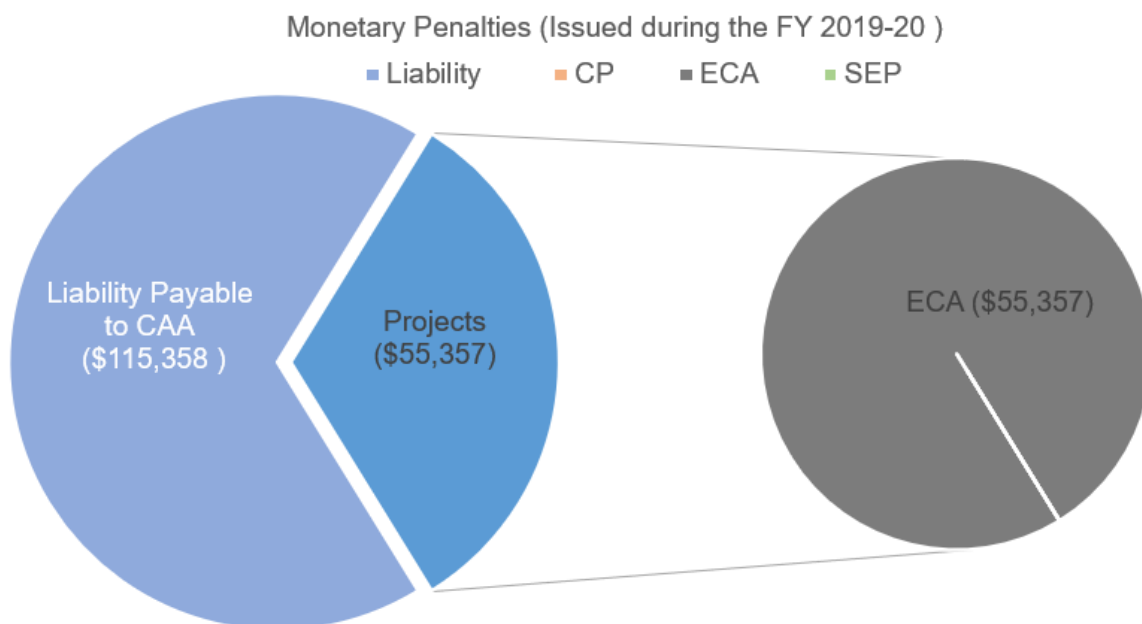


Figure 3: Sum of Total Monetary Penalties issued during the fiscal year.

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 period. 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)

and was used to develop the FY 2019-2020 performance targets. Below is the Central Valley Water Board’s Performance Measurement Summary for the 2019-2020 fiscal year.

ENFORCEMENT TABLES 5A-5E - REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY (1 JULY 2020 THROUGH 31 AUGUST 2020)

Table 5a – NPDES Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Individual Facilities Inspected	29	0 ¹	0% ¹	NA	0 ¹
Minor Individual Facilities Inspected	9	0 ¹	0% ¹	NA	0 ¹
Minor General Enrollees Facilities Inspected	0 ¹	0 ¹	--	NA	0 ¹

¹ Zero NPDES inspections were conducted during the past two months as a result of Covid-19 and multiple wildfires. Access to NPDES facilities has been extremely limited, and therefore staff have been conducting virtual inspections which will be finalized and counted in CIWQS pending an onsite inspection. NPDES inspection targets are still expected to be met for FY 20/21.

Table 5b – 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	11	7%	NA	11

Table 5c – Land Disposal

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	9	7%	NA	9
All Other Inspections	23	2	8%	NA	2

Table 5d – NPDES Storm Water

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	48	12%	NA	48
Stormwater Industrial Inspections	195	40	20%	NA	40
Stormwater Municipal Inspections	0	13	NA	NA	13

Table 5e – Other Programs

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	166	28	16%	NA	28
Confined Animal Facility Inspections	275	15	5%	NA	15

ENFORCEMENT TABLE 6 – REGION 5 CLEANUP ACTION SUMMARY (1 JULY 2020 THROUGH 31 AUGUST 2020)

Table 6 – 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	6	0	0%	NA	NA
New SCP Sites into Active Remediation	50	1	2%	NA	NA
Cleanup Program Sites Closed	60	5	8%	NA	NA
New UST Sites into Active Remediation	25	1	4%	NA	NA
Underground Storage Tank Sites Closed	68	10	15%	NA	NA

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

The Delta Mercury Control Program and associated Methylmercury TMDL (DMCP) requires entities responsible for discharging methylmercury (MeHg) in the Delta to conduct source control studies and evaluate and develop MeHg management methods. The DMCP requires the studies to be reviewed by an independent scientific peer review panel (Review Panel). Seven control study reports investigating MeHg management in municipal wastewater and urban stormwater runoff discharges have been completed and evaluated by the Review Panel. The [Review Panel's report](#) assessing the seven control study reports on municipal wastewater and urban stormwater runoff discharges can be viewed here:

(<http://www.deltacouncil.ca.gov/pdf/science-program/2019-08-22-delta-methylmercury-review-part-1.pdf>).

Board staff met with dischargers to discuss the control study reports, requested clarification information, and are in the process of issuing letters of compliance with the DMCP. A one-day virtual meeting for methylmercury control study participants summarizing control study findings to-date and related impacts to the DMCP was held on 10 September 2020. Board staff are planning to start CEQA scoping meetings in November 2020.

A second Review Panel will review the open water modeling and tidal wetlands control study reports and submit a report on those studies in Fall 2020. Board staff will use information from these studies and recommendations from the Review Panel to consider revisions to the DMCP.

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

There have been many Delta RMP meetings focused on (1) contingency planning due to program impacts related to COVID-19 and (2) transition of the program management from the Aquatic Science Center (ASC) to the Consensus and Collaboration Program (CCP) at Sacramento State as of 1 July 2020. The Steering Committee (SC) initially hired CCP to facilitate the Technical Advisory Committee (TAC) and to help the Governance Subcommittee identify options for the future governance structure of the RMP. The SC decided to expand the role of CCP to include interim program management until the governance structure options and potential program changes have been implemented.

Board staff attended RMP technical subcommittee meetings, TAC meetings and SC meetings as well as other smaller meetings to provide support for the transition of the program. The Delta RMP Steering Committee (SC) met on 27 August 2020, 9 September, and 22 September 2020 and discussed program priorities, planning, and monitoring in FY20/21. On 17 August 2020 and 11 September 2020, the Delta RMP TAC discussed contingency planning for projected monitoring delays due to COVID-19, program priorities for FY20/21, and reviewed technical reports, quality assurance plan revisions, and monitoring proposals. The Coordinating Committee met on 18 August 2020 and 14 September 2020 and discussed program priorities and finalized the agendas for the SC meetings. On 31 August 2020 and 2 September 2020, the Nutrients Subcommittee discussed FY20/21 workplan studies and a Supplemental Environmental Project (SEP), both focused on monitoring harmful algal blooms. On 19 August 2020 the Finance Subcommittee reviewed the annual finance report for FY19/20 and the upcoming FY20/21 program budgets.

DELTA NUTRIENT RESEARCH PLAN

The Delta Nutrient Research Plan (approved by the Central Valley Water Board in August 2018) identifies information gaps for assessing needs and developing water quality objectives for nutrients in the Delta. Efforts are now focused on filling the information gaps through special studies, monitoring, data evaluation, and modeling.

STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES

- Board staff are part of a team that was awarded a Proposition 1 Grant administered by the Dept. of Fish and Wildlife Ecosystem Restoration Program to monitor harmful algal blooms and cyanotoxins in water and benthic organisms (clams, crayfish, and smaller sediment-dwelling animals) at ten locations in the Delta for two years. Field sampling began in August and continued in September.

- Board staff have begun preparation of mass load estimates of phosphorous and nitrogen in the Delta. The load estimates encompass the most recent eight years and utilize data collected by multiple monitoring programs and permitted entities.
- Development of computer models for nutrient transport and transformations, phytoplankton growth, hydrodynamics, and other processes in the Delta and Suisun Bay by the SFEI modeling team continued and has been funded by the State Water Board, Delta Regional Monitoring Program, and the Delta Science Program.

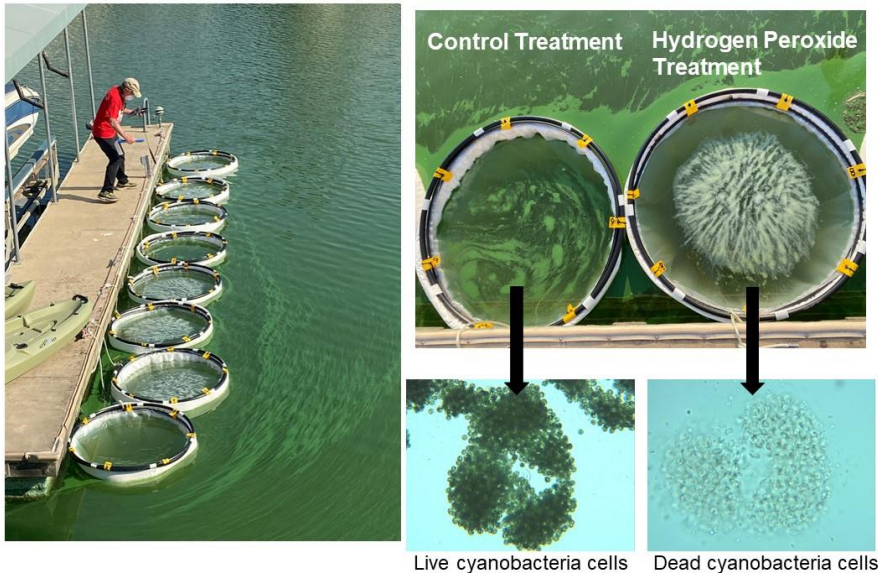
PILOT CYANOBACTERIA MITIGATION EXPERIMENT AND NUTRIENT ASSESSMENT IN DISCOVERY BAY

The implementation of the nutrient assessment and pilot study of a cyanobacteria mitigation method in Discovery Bay continued with funding from the United States Environmental Protection Agency to the State Water Board (Clean Water Act sections 205(j) & 604(b)). The study is designed to assess nutrient concentrations and loads and a potential cyanobacterial bloom mitigation method.

The pilot study will optimize treatment of cyanobacterial blooms using hydrogen peroxide. Hydrogen peroxide has been shown to be effective in reducing blooms since cyanobacteria are particularly susceptible to peroxide compared with other types of algae and may facilitate a shift to other benign species of algae dominating the biological community composition. Hydrogen peroxide has many advantages since it degrades to molecular oxygen and water, leaves no chemical residue, can potentially degrade cyanotoxins, and can alleviate low dissolved oxygen issues that often result when cyanobacterial blooms deteriorate.

The field study will determine the potential for use of this management approach in Discovery Bay and other waterbodies where the addition of algaecides that leave residual chemicals or nutrients is particularly undesirable. Field experiments were conducted in mesocosms located at a dock in Discovery Bay using ambient light and temperature conditions. The figures below show the mesocosm experiments on the left, a close up of two of the mesocosms on the right showing the difference between the untreated (control) mesocosm and the hydrogen peroxide treatment. Microscopic pictures show the green healthy cyanobacteria cells from the control treatment and the dead cells from the hydrogen peroxide treatment.

The study is led by Dr. David Caron, University of Southern California, Captain Allan Hancock Endowed Chair in Marine Science, and Chief Science Officer of Aquatic EcoTechnologies, LLC. Board staff provided support by sampling the experiments for several days. The final report shall include the evaluation of pilot study treatments and recommendations for a cyanobacteria mitigation strategy for Discovery Bay, based on the results of the pilot study.



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 aerator when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective.

On 31 August 2020, the Port of Stockton began operating the aerator and it remains in operation as of 11 September 2020. On 6 and 7 September 2020, work at a nearby substation resulted in several power outages at the aerator, and there were several hours where the dissolved oxygen concentrations fell slightly below the water quality objective of 6 milligrams per liter (mg/l). Beginning the evening of 7 September 2020, full power to the aerator was restored. There were additional minor excursions below the water quality objective on 8, 9, 10 and 11 September 2020, and the Port of Stockton has since increased aeration rates to ensure dissolved oxygen concentrations remain above the water quality objective. The lowest dissolved oxygen concentration during any of the temporary excursions in this reporting period was above 5 mg/l which is unlikely to result in significant impacts.

[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)

OLD AND MIDDLE RIVERS DISSOLVED OXYGEN IMPAIRMENT

On 15 June 2020, the Department of Water Resources (DWR) submitted a draft report detailing the temporary barriers' effects on dissolved oxygen in Old and Middle Rivers to meet a requirement of the 401 Certification. Board staff are currently reviewing the draft DWR report.

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 TMDLs, are now fully approved and effective.

Pyrethroid Management and Monitoring Plans were submitted to the Board from the City of Roseville and the Sacramento Stormwater Quality Partnership to comply with the BPA and TMDLs in April. Board staff have reviewed those Management Plans, provided comments to the dischargers, and anticipate being able to have the final versions of the Management Plans approved by the end of November 2020.

On 15 July 2020, Board staff sent orders under California Water Code Sections 13267 and 13383 to Municipal Separate Storm Sewer System (MS4) permittees in the Sacramento and San Joaquin Rivers Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these orders, larger Phase I MS4 entities must submit draft Baseline Monitoring Plans no later than 1 December 2020.

Phase II MS4 dischargers under the program had the option to either 1) submit Baseline Monitoring Plans by 28 February 2020, or 2) acknowledge the existing data are assumed to be representative of their discharge, forego baseline monitoring and prepare a Pyrethroid Management Plan due to the Board by 19 August 2021. The Phase II MS4s were also required to submit a statement of intent by 31 August 2020 describing which option they selected. As of early September, 54 of the 60 Phase II MS4s who received 13267/13383 orders have responded, and staff are following up with the remainder. If the baseline monitoring option was selected by the Phase II MS4 entity, a draft Baseline Monitoring Plan will be due on 28 February 2021, one (1) year of baseline monitoring shall be completed by 21 June 2022, and applicable reports shall be submitted by 19 September 2022. If an exceedance of prohibition triggers is found

during baseline monitoring, a Management Plan is due one (1) year from the date the exceedance.

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

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).

DIAZINON AND CHLORPYRIFOS REVIEW

Board staff have completed an internal review of the diazinon and chlorpyrifos concentration data and other related information in the Central Valley Region. Preliminary results show that the improved practices and reduced uses that have followed the Board's control efforts, the Department of Pesticide Regulation's pesticide use regulations, and other regulatory changes, have been effective at reducing diazinon and chlorpyrifos concentrations. Board staff plan on presenting these findings to the Board in December 2020 or early 2021.

TRIBAL BENEFICIAL USES DESIGNATION

On 2 May 2017 beneficial use designations relating to California Native American tribes were established by the State Water Board through Resolution 2017-0027, which 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. The new beneficial use definitions are Tribal Tradition and Culture (CUL), and Tribal Subsistence Fishing (T-SUB) ("Tribal Beneficial Uses"). In addition, the State Water Board also defined a beneficial use for Subsistence Fishing (SUB) unrelated to California Native American Tribes. The SUB, T-SUB, and Commercial and Sportfishing (COMM) beneficial uses relate to the risks to human health from the consumption of fish or shellfish. In addition, the definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights.

Through the 2018 Triennial Review process, several tribes in the Central Valley Region requested that the Board designate Tribal Beneficial Uses (TBUs). 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.

In May 2019, Board staff initiated a Tribal Beneficial Uses Working Group with the other Regions and State Water Board Divisions to facilitate communication on this effort. This Working Group was established so that representatives from the nine Regional Water Boards could communicate and collaborate on TBUs with State Water Board (including

the Office of Chief Council, Office of Public Participation, Division of Water Quality) and develop a process to add TBUs to the respective Basin Plans. Board staff have begun drafting a Basin Plan Amendment to add the TBU definitions to the Basin Plans in 2021.

PIT RIVER EVALUATION

The 2018 Triennial Review identified Reassessment of Beneficial Uses and Water Quality Objectives in Specific Reaches of the Pit River as a priority project. To support this effort, the Modoc Resource Conservation District (MRCD) plans to gather available temperature-related water quality data and collect additional data where data gaps exist. On 9 October 2019 Board staff met with MRCD representatives to discuss the Pit River reassessment project and tour the upper Pit River watershed. The following day Board staff met with the Environmental Director for the Pit River Tribe to provide an update on the meeting with representatives from MRCD and to provide a general timeline of future actions.

On 27 January 2020 Board staff facilitated a meeting between members of the MRCD and members of the Pit River Tribe. Board staff provided a brief presentation on the history of the temperature criteria ascribed to the Pit River and the stakeholders and Pit River Tribe members presented their opinions on the beneficial uses of the Pit River. It was agreed that the MRCD and Pit River Tribe members would continue discussions on this topic by holding future meeting. Board staff continue to facilitate meetings and discussions, as needed or requested.

BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide plan for control of biostimulatory substances 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 biostimulatory substances and control options for point and non-point sources. If in narrative form, the objective would be accompanied by translators for biostimulatory substances and eutrophic conditions (e.g., total nitrogen, total phosphorous, and chlorophyll concentrations). The Amendment development is focused first on wadeable streams, followed by lakes and reservoirs and then lakes and estuaries. State Water Board staff anticipate releasing a draft Amendment for wadeable streams in 2020. There have been no meetings or document releases for this project in 2020.

REGIONAL TEMPERATURE CRITERIA DEVELOPMENT

The 2018 Triennial Review identified Temperature Criteria and Objectives as a priority project to develop regionally applicable temperature criteria for the Central Valley. The report completed in FY18/19 that assessed the EPA Region 10 temperature criteria applicability for the Central Valley recommended the development of regionally based criteria. Board staff are coordinating with Division of Water Rights on next steps to identify studies needed for developing a long-term approach to address unresolved temperature criteria questions and uncertainties. Board staff participated in a three-part

discussion with Water Rights staff and various stakeholders, including state and federal agencies and academic researchers, on temperature studies. Water Rights will be working on the next steps identified during these meetings and will coordinate with Board staff.

SALINITY AND CV SALTS

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

The CV-SALTS Central Valley-wide Salt and Nitrate Management Plan (SNMP) was completed and submitted to the Board on 12 January 2017. A resolution acknowledging receipt of the SNMP and directing Board staff to begin basin plan amendment work to implement the SNMP as appropriate was adopted at a 9 March 2017 hearing. Final copies of the [SNMP](#) and related policy documents can be found here: (https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/salt_nitrate_mgtplan/)

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)

On 16 October 2019, the State Water Board adopted a resolution approving the SNCP amendments, along with a directive for the Central Valley Water Board to adopt targeted revisions to the amendments within a year of their approval by the Office of Administrative Law (OAL), which was on 15 January 2020. The SNCP was finalized when the Notice of Decision was filed with the Secretary of Natural Resources Agency on 17 January 2020, except for the portions subject to the Clean Water Act, which will require approval by the USEPA. Draft basin plan language addressing the revisions requested by the State Water Board were posted for public comment on 4 September 2020. The public comment period ends on 19 October 2020 and the hearing to consider adoption of the revisions is scheduled for 10/11 December 2020. The Notice of Opportunity to Comment and Public Hearing, along with the [draft basin plan language](#) and Staff Report can be found here:

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

The mailing of Notice to Comply letters for the Nitrate Control Program were sent out to Priority 1 permittees on 29 May 2020. Preliminary Management Zone Proposals are due on 8 March 2021 and Notice of Intent documents are due 7 May 2021. Notice to Comply letters for the Salt Control Program are tentatively scheduled for October 2020, pending USEPA approval of the amendments. More information about the [SNCP](#), including the latest on Management Zone formation efforts in Priority 1 areas can be found at: (<https://cvsalts.info>)

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 have developed an updated project Work Plan for the fiscal year 2020/21.

More information on the [Municipal and Domestic Supply \(MUN\) Beneficial Use Project](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/) 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 are held quarterly. The last MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) was held on 21 September 2020. A meeting for the RTMP stakeholder group, originally scheduled for 8 June 2020, was postponed until next quarter due to COVID-19 restrictions. USBR's 2019 Annual Report was submitted to the Central Valley Water Board in December 2019. USBR posted a draft of their FY20/21 Work Plan by 23 June 2020. USBR received one comment letter from the Contra Costa Water District. USBR submitted their final FY20/21 Work Plan and Response to Comments documents to the Central Valley Water Board on 27 August 2020. [USBR's documents](https://www.usbr.gov/mp/ptms/) 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 indicator bacteria on California's 303(d) List. To keep the public and local agency partners informed about current conditions, SWAMP has been collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. Monitoring was put on hold starting in March 2020 in response to COVID-19 requirements. However, E. coli monitoring at key sites along the Lower American River was restarted in mid-May 2020 in conjunction with a coordinated stakeholder effort to collect DNA source identification samples. DNA monitoring was previously conducted from August through September 2019 at ten river sites and two urban runoff locations in the Lower American River. The bird marker was the most frequently detected marker (14/24

samples) and the human marker was detected in a single sample. This second phase of the study will provide additional DNA samples to further characterize the contributing sources of E. coli to the river.

SUMMER 2019 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. Board staff are currently conducting monitoring studies for the 2020 season, which include popular recreational spots in and around the Delta, the upper San Joaquin River and the lower Kings River watersheds. Monitoring began in June 2020 and will run through September 2020.

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

(https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2019_r_bua/).

FOREST ACTIVITIES PROGRAM

FEDERAL NONPOINT SOURCE PERMIT DEVELOPMENT

Central Valley Water Board and Lahontan Water Board staff have been working through the initial stages of obtaining a contract through Department of General Services to develop an environmental impact report for each permit that will be produced by the individual region. Tribal consultation has been initiated, and the project webpage has been recently updated. Both the U.S. Forest Service and the Bureau of Land Management have recently produced draft manuals containing best management practices for staff review to consider as the basis of permit requirements.

WILDFIRE RESPONSE

Central Valley Water Board Forest Program staff are preparing a plan to address the vast acreages of post-fire salvage operations expected in the wake of the wildfires occurring throughout the region. This plan includes upcoming informational bulletin releases by CAL FIRE for salvage operations on private lands, informational letters to landowners and project submitters (including the U.S. Forest Service), and outreach to utility companies that are conducting repair work. Post-fire salvage operations and hazard tree removal activities often begin before fires are classified as out, and given how quickly winter conditions can arrive in the late fire season and the vast extent of burned acreage in the region, prioritizing staff efforts is crucial.

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 to streamline the permitting process. NPDES Tables 1 and 2, below, summarize the Notices of Applicability that were issued for Fiscal Year 2020/2021 (1 July 2020 and 30 June 2021) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order) and Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order).

NPDES PERMIT Table 1 –Limited Threat Discharges to Surface Waters R5-2016-0076

Facility	General Order Permit Number
North Manteca Trunk Sewer Construction Dewatering Project	R5-2016-0076-064

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

Facility	County	General Order Permit Number
Stallion Springs Community Services District, Wastewater Treatment Facility	Kern	R5-2017-0085-013

DAIRIES/CONFINED ANIMAL FACILITIES

CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program’s FY 2020/2021 performance target for facility inspections is 275. Staff have completed approximately 30 inspections since 1 July 2020. Due to COVID-19, the rate of inspections has declined. However, staff anticipates increasing the number of inspections performed during the coming rainy season.

MORTALITIES DUE TO HEAT WAVE

Due to a recent heat wave, an increase in animal mortalities temporarily stressed the capacity of rendering operations. This resulted in a number of dairies that had to temporarily store carcasses on-site. Based on guidelines developed with participation

from the California Department of Food and Agriculture (CDFA), these carcasses are covered with manure and composted until they can be transported to a landfill. Because the composting is done on a plastic liner in manure storage areas of the dairy regulated by the Dairy General Order, this temporary storage/composting prior to off-site disposal does not create a threat to water quality. The burial of dead animals on site, or the land application of composted material containing mammalian tissue, are prohibited.

As mentioned in a previous EO Report, the CDFA is working with UC Davis, USDA, and others to test the efficacy of mortality composting and the safety of land applying composted material. Central Valley Water Board and other CalEPA staff are working with CDFA staff to ensure that any recommended practices are documented to be protective of human health and the environment, including water quality, before proposing the Board consider waste discharge requirements that allow the land application of such compost.

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, and to evaluate closure plans for produced wastewater ponds. Major items that Staff have completed include:

- Notified Berry Petroleum Company in the Midway-Sunset Oil Field that a Report of Waste Discharge (RWD) or Notice of Intent (NOI) needs to submit 140 days prior to the proposed discharge of fill to Sandy Creek. The project would be a structure to bypass Sandy Creek around an ongoing surface expression. Berry Petroleum Company has been coordinating with Staff on the proposed project;
- Issued a Notice of Applicability Order (NOA) No. R5-2017-0036-016 for an Aera Energy LLC facility in the Coalinga Oil. This NOA authorizes the discharge of produced wastewater to seven ponds under Oil Field General Order Three;
- Approved a California Resources Corporation (CRC) revised work plan to conduct soil sampling in an inactive pond and in areas where road mix was applied on the Vedder USL Lease in the Mount Poso Oil Field;
- Approved a CRC revised work plan to conduct soil sampling in an inactive pond and in areas where road mix was applied on the Jones Lease in the Mount Poso Oil Field;
- Approved a CRC work plan to collect soil samples from a waste pile in the McDonald Anticline generated during the closure of ponds by a previous operator;
- Responded to CRC questions/comments for its McDonald Anticline Lease and associated with planned evaluations of data to be conducted after soil/sludge

samples are collected from a 3,000-foot conveyance ditch, concrete lined ponds, and stockpiled materials;

- Transmitted a letter to Petrotech, Inc., providing guidance on closure/remediation procedures for one or more of the ponds at a facility in the Fruitvale Oil Field;
- Approved an extension request letter for Cease and Desist Order No. R5-2019-0045 that regulates the McKittrick 1&1-3 Facility operated by Valley Water Management Company. Consistent with the CDO requirements, the letter approves the discharge of produced wastewater to ponds through 1 September 2021 because Sentinel Peak Resources has been working diligently to obtain the underground injection control permits from California Geological Energy Management Division (CalGEM) necessary to cease discharges to the Facility, but needs more time.
- Served by process server a letter to KB Oil and Gas, Inc., notifying it that it is subject to potential civil liability for failing to comply with Cleanup and Abatement Order No. R5-2015-0734, and encouraging it to contact Staff to discuss its situation;
- Conveyed a No Further Action determination for the closure of a J & K Operating Company, Inc., pond on the Jade Kern Lease in the Midway Sunset Oil Field.

Staff also continues 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). On 20 August 2020, Staff completed the review of a new NOI and issued NOA Order No. 2003-003-DWQ-0213 for Crimson Resources Management in the Lost Hills Oil Field.

SPILL RESPONSE

Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff (Staff) responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Central Valley Water Board staff were notified of 11 events in July and August.

A spill of crude oil and oil field produced wastewater occurred near Well 22F1-36N on the Reynold-Knudsen Lease operated by Aera Energy, LLC (Aera), in the North Belridge Oil Field on 19 July. According to OES, a flow line leak caused the discharge of approximately 8 barrels (bbl(s)) (336 gallons (gal(s))) of crude oil and 10 bbls (420 gals) of produced wastewater to land. On 20 July, Aera staff told Central Valley Water Board Staff that cleanup of the affected areas was in progress and staff of the California Division of Geologic Energy Management (CalGEM) were following up on this incident. Aera staff added that no dry stream beds or natural drainage courses have been affected by the spill.

A spill of crude oil and oil field produced wastewater occurred on the Section 17S Facility operated by Chevron USA, Inc. (Chevron), in the Midway Sunset Oil Field on 20 July. According to OES, a production well leak caused the discharge of approximately 0.2 bbls (8.4 gals) of oil and 1 bbl (42) of produced wastewater into a dry stream bed. On 21 July, Chevron staff told Central Valley Water Board Staff that cleanup of the areas affected by the spill was complete. On 28 July, Central Valley Water Board Staff and staff of the California Department of Fish and Wildlife – Office of Oil Spill Prevention and Response (CDFW-OSPR) conducted a post-cleanup inspection of the affected areas and CDFW-OSPR staff signed-off on the site cleanup.

A spill of crude oil occurred on Section 27 near the Water Softening Plant operated by Aera, in the South Belridge Oil Field on 23 July. According to OES, a release of an unknown source consisting of approximately 0.18 bbls (7.56 gals) of crude oil affected a dry stream bed. On 27 July, Aera staff told Central Valley Water Board Staff that it was determined that the discharged oil has not affected a stream bed, rather, it was found near the bank of the stream bed. Aera staff added that cleanup of the spill was complete and staff of CDFW-OSPR inspected the spill site after cleanup. Central Valley Water Board Staff inspected the spill site on 28 July and was shown the affected area which appeared to be visually clean. Central Valley Water Board Staff observed no evidence of recent discharge of oil into the nearby stream bed.

A spill of crude oil and oil field produced wastewater occurred on the Section 29D Facility operated by Chevron, in the Midway Sunset Oil Field on 6 August. According to OES, a flow line leak caused the discharge of approximately 6.5 bbls (273 gals) of oil and 58.5 bbls (2,457 gals) of produced wastewater into a dry stream bed. On 7 August, Chevron staff told Central Valley Water Board Staff that the spill affected a total length of approximately 96-feet in two sections of the affected stream bed. Chevron staff added that cleanup of the affected areas was in progress. Staff of CDFW-OSPR conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup on 20 August.

A spill of oil field produced wastewater occurred on the Section 5 Lease operated by E&B Natural Resources (E&B), in the Poso Creek Oil Field on 7 August. According to OES, a leak in a wastewater disposal line caused the discharge of approximately 1 to 2 bbls (42 to 84 gals) of produced wastewater to land. On 7 August, E&B staff told Central Valley Water Board Staff that the discharged fluids affected flat areas and no dry stream beds, or natural drainage courses have been affected by the spill. E&B staff provided Central Valley Water Board Staff with post-cleanup photographs of the affected areas.

A spill of crude oil, oil field produced wastewater, steam, and mud occurred on the Southwestern Lease operated by Berry Petroleum Company (Berry), in the Midway Sunset Oil Field on 15 August. According to OES, a surface expression discharged approximately 18 bbls (756 gals) of oil and 18 bbls (756 gals) of wastewater to land. The OES report also stated that one nearby steam-stimulated well was shut down to help de-energize the expression. On 17 August, Berry staff told Central Valley Water Board Staff that no stream beds or natural drainage courses were affected by the

discharge. Berry staff added that the surface expression was still active, but no fluids were flowing. Berry staff said that no cleanup work has been initiated yet for safety precautions and that staff of CalGEM inspected the spill site.

A spill of crude oil and oil field produced wastewater occurred on the Southwestern Lease operated by Berry, in the Midway Sunset Oil Field on 17 August. According to OES, an operational malfunction caused a produced wastewater tank to discharge approximately 5 bbls (210 gals) of oil and 210 bbls (8,820 gals) of produced wastewater to land. On 18 August, Berry staff told Central Valley Water Board Staff that the discharge resulted from a mechanical failure and that the discharged fluids were entirely contained within the secondary containment of the source tank. Berry staff added that cleanup of the affected area was in progress. Berry staff provided Central Valley Water Board Staff with photographs showing the discharged fluids contained within the secondary containment of a tank.

A spill of crude oil occurred on a facility operated by Aera, in the McKittrick Oil Field on 19 August. According to OES, a human error caused a piece of equipment to spill less than 1 bbl (42 gals) of crude oil to land and a portion of the discharge entered a dry stream bed. CDFW-OSPR staff informed Central Valley Water Board staff that cleanup of the affected areas was complete. CDFW-OSPR staff conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup on 26 August.

A spill of oil field produced soft water occurred on the Anderson-Fitzgerald Lease operated by Aera, in the South Belridge Oil Field on 19 August. According to OES, a pipe leak caused the discharge of approximately 30 bbls (1,260 gals) of softened produced wastewater to land. The OES report also states that 20 bbls (840 gals) of the discharge affected a dry stream bed. On 20 August, Aera staff told Central Valley Water Board Staff that no oil was discharged.

A spill of crude oil occurred near Well 3589-2 on the Section 2 Lease operated by Aera, in the South Belridge Oil Field on 28 August. According to OES, a flow line leak caused the discharge of approximately 10 bbls (420 gals) of crude oil to land. On 28 August, Aera staff told Central Valley Water Board staff that the discharge has been stopped and cleanup of the affected areas was in progress. Aera staff added that the spill has not affected any dry stream beds or natural drainage courses. Aera staff provided Central Valley Water Board staff with photographs of the areas affected by the spill.

A spill of drilling mud occurred near well #4979 on the Fairfield Lease operated by Berry, in the Midway Sunset Oil Field on 28 August. According to OES, a failure in a new inactive well and a drilling mud sump caused the discharge of approximately 5 bbls (210 gals) into a well pad. On 28 August, Berry staff told Central Valley Water Board staff that the discharge has been stopped and the discharged mud was being removed from the affected area. Berry staff added that the discharged mud flowed downhill and pooled on a production pad. According to Berry staff, no dry stream beds or natural drainage courses have been affected by the discharge. Berry staff provided Central Valley Water Board staff with photographs of the affected areas.

Central Valley Water Board Staff will pursue appropriate follow-up and enforcement as necessary on the above spills.

OIL FIELD FOOD SAFETY EXPERT PANEL

Staff continued to work with the Food Safety Expert Panel, GSI Environmental Inc. (GSI), and the Science Advisor to complete the Tasks 2 and 3 Reports. For Task 2, GSI is updating the report based on the comments from the Panel, Science Advisor, and Staff. For Task 3, Staff circulated an updated version of the Task Report to the Panel and Science Advisor for review. Staff received additional comments regarding the Task 3 Report, which were reviewed by Staff and forwarded to GSI to update the report as appropriate.

The Tasks 2 and 3 Reports will be made available to the public upon approval by the Panel. At this time, additional work is required before the Tasks 2 and 3 Reports are posted on the Food Safety webpage. Currently posted on the Food Safety webpage are the Final Task 1 Report and the draft White Paper.

Staff continues to work on the White Paper which will summarize the work and findings of the Food Safety Project. Draft versions of the White Paper will continue to be reviewed by the Panel, Science Advisor, and GSI. Upon receiving approval by the Panel and Science Advisor, the White Paper will be made available to the public for a comment period. Staff anticipates that the White Paper will be finalized by the end of the calendar year. Staff is also working on a Resolution to be considered by the Board. The Resolution will outline the findings of the Food Safety Project and provide guidance for addressing new and expanding projects that propose the reuse of produced wastewater for irrigation. When complete, the Resolution will be presented to the Board during a public meeting.

UIC PROGRAM

During the period from 1 July 2020 to 11 September 2020, Central Valley Water Board staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Aquifer Exemption – Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption boundaries.

Kern River Aquifer Exemption – Staff continues to work with the staff of State Water Board and its management to prepare limitations and conditions to be included in a draft preliminary concurrence letter.

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 – The California Geologic Energy Management Division (CalGEM) provided State Water Board staff and Staff an aquifer exemption application addendum (application) for the Dorsey area in the Mt. Poso Oil Field. Staff reviewed the application and provided its initial questions to State Board.

UIC PROJECT REVIEWS

Staff prepared and issued five 13267 Orders requiring five Operators to perform hydrogeologic investigations in the South Belridge and Lost Hills Oil Fields as a result of an analysis conducted by the United States Geological Survey that demonstrated oil field produced water has potentially impacted beneficial use waters.

Staff continue to review project information relating to an Operator's request to conduct two water disposal projects located in the South Belridge and McKittrick Oil Fields. These two water disposal projects are being proposed so that the Operator can stop disposing of produced water into surface impoundments. Staff met with the Operator and CalGEM on multiple occasions to discuss the Operator's proposed monitoring plans and potential conditions and limitations to be included in the project approval letters issued by CalGEM.

Staff continue to review project information relating to an Operator's request to conduct a water disposal project located in the South Belridge Oil Field. This water disposal project is being proposed as part of the Operator's transition plan to move its current water disposal activities from the east side to the west side of the South Belridge Oil Field. Staff reviewed additional information provided by the Operator and are preparing a letter and memorandum requesting more information be provided.

Staff received project information relating to an Operator's request to expand its steamflood and cyclic steam injection activities in the Edison Oil Field. CalGEM also indicated that the review of the expansion information included a project by project review conducted by CalGEM. Staff in conjunction with the State Water Resources Control Board (State Water Board) reviewed the information provided and sent a letter and memorandum to CalGEM requesting additional information.

Staff received project information relating to a project by project review conducted by CalGEM regarding an Operator's water disposal project in the Kern Bluff Oil Field. Staff in conjunction with the State Water Board reviewed the information provided. Staff provided its completeness check and initial review memorandum to the State Water Board to be incorporated in the State Water Board's initial review provided to CalGEM.

Staff received project information relating to an Operator's request to add six non-expansion waterflood wells to a waterflood project in the North Belridge Oil Field; however, the project application was incomplete. Staff sent a letter and memorandum to CalGEM detailing the reasons it could not complete a review.

Staff received project information relating to an Operator's request to conduct a pilot waterflood project in the Paloma Oil Field. Staff had sent CalGEM a no-objection-with-conditions letter and memorandum stipulating that three conditions need to be met prior to the commencement of injection activities. Staff reviewed the information provided and sent CalGEM a request for additional information. Staff reviewed the additional information and revised draft project approval letter provided by CalGEM and are preparing its no objection letter and memorandum.

Staff issued two no objection letters and memorandums for UIC projects in the Kern River and Midway-Sunset Oil Fields.

Staff issued one completeness check and initial review letter and memorandum for a UIC project in the Midway-Sunset Oil Field.

Staff received project information relating to an Operator's request to conduct a steamflood project in the McKittrick Oil Field. Staff are reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Central Valley Water Board staff have completed one SB4 Well Stimulation Treatment (WST) Application package review and submitted written comments to the State Water Board. The Application package reviewed was for Aera Energy LLC's Lost Hills Oil Field.

Central Valley Water Board staff also reviewed the following: Aera Energy LLC groundwater monitoring reports for its South Belridge Oil Field; a Chevron U.S.A. Inc. groundwater monitoring addendum for its Lost Hills Oil Field; a Chevron U.S.A. Inc. document associated with a groundwater mound in the Lost Hills Oil Field; and, a revised California Resources Corporation work plan for the installation of a monitoring well for a supply well in their Terrabone Oil Field (unofficial). Central Valley Water Board staff submitted written comments to the State Water Board.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

EXPERT REVIEW OF EAST SAN JOAQUIN WATER QUALITY COALITION (ESJWQC) SURFACE WATER MONITORING FRAMEWORK

State Water Resources Control Board Order WQ-2018-0002 directed the Central Valley Water Board to convene an external expert review of the ESJWQCs surface water monitoring framework. Steve Weisberg of the Southern California Coastal Water Research Project (SCCWRP) is facilitating the five-member panel external review. The first public Panel Meeting was held in January 2020, with two days at the Central Valley Water Board's, Rancho Cordova office and one day touring the Coalition's monitoring locations. The second public Panel Meeting was held from 24-26 August 2020 via a webinar. Following two days of stakeholder presentations and deliberation, the Panel

provided an overview of their recommendations for the ESJ surface water monitoring program. A draft findings and recommendations report is planned for release in October followed by a third public meeting to discuss comments on the draft report. The final report is due in January 2021.

Additional panel and meeting information is available on the following website:
[Expert Review Panel for the ESJ Surface Water Quality Monitoring Program](http://www.sccwrp.org/about/research-areas/additional-research-areas/east-san-joaquin-expert-panel/)

(www.sccwrp.org/about/research-areas/additional-research-areas/east-san-joaquin-expert-panel/).

LOW-THREAT ALTERNATIVE ILRP FRAMEWORK

Staff continues to work with UC Rangelands to gather information and evaluate regulatory options for the Irrigated Lands Regulatory Program to be more relevant and meaningful for irrigated pasture and low-threat crops in the upper watersheds. The information includes pesticide use data, nitrogen/fertilizer use data, management practice data, geographic data, and economic analysis results. Staff is also evaluating potential thresholds for irrigated pasture that might be used to support an exemption from the Irrigated Lands Regulatory Program.

ILRP COMPLIANCE, OUTREACH & ENFORCEMENT

COVID-19 IMPACTS

Due to the Covid-19 pandemic, some activities performed by the compliance and outreach unit have been delayed. Staff continue to work from home focused on identifying potential commercial irrigated lands using a Geographic Information System (GIS) based desktop computer application and preparing follow up. On-farm inspections have been put on hold. We have modified our outreach to non-filers by sending a reminder letter prior to a directive letter to potential commercial irrigated landowner/operators as a softer approach during this time.

DATA MANAGEMENT AND CROSS PROGRAM COORDINATION

ILRP staff continues to develop new ways to manage data and tracking for our program. We are currently working with State Water Board staff on a GIS based platform to track our enforcement letters. We continue to work with the Confined Animal Unit to combine information into one GIS map. This map will help future outreach efforts to determine who still needs to be enrolled in the ILRP.

DRINKING WATER WELL MONITORING OUTREACH

Drinking water well monitoring outreach continue for members in the East San Joaquin Water Quality Coalition (ESJWQC) and coalitions in the Tulare Lake Basin. ESJWQC members were required to monitor drinking water wells on enrolled parcels starting in 2019. Tulare Lake Coalition members are required to start sampling in 2020. Board staff

is continuing to work with members by providing guidance and answering questions. Within the region, there has been over 3500 wells monitored for nitrate and nitrite as nitrogen as a result of this program, and that data is publicly available on GeoTracker.

ESJWQC members have started their second year of drinking water well monitoring. Between July 1 and August 31, 46 samples have been submitted to GeoTracker by 17 members/landowners with about 6.5 percent of samples exceeding the drinking water standard.

Board staff is tracking notification submittal and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users accordingly. From July 1 to August 31, staff sent 5 letters to ESJWQC members/landowners reminding them of the notification requirement. This process has achieved 100 percent compliance.

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 August 2020, there were 274 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 243 signed Drinking Water Notification Templates (89% compliance). From July 1 to August 31 staff have contacted 45 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

AGRICULTURAL PARCEL INSPECTIONS

The purpose of these aerial desktop inspections is to determine if the parcels are commercial irrigated lands and require coverage under the Irrigated Lands Regulatory Program. Data gathered during these inspections are used to focus and prioritize issuance of 13260 directives to appropriate entities. Growers may obtain coverage by joining an agricultural coalition and enrolling in the associated ILRP general order or enrolling in the ILRP individual general order. The table below presents desktop parcel inspections conducted for each coalition area. Coalition areas not shown had no desktop inspections during the reporting period.

Desktop Parcel Inspections Conducted

Coalition Area	Parcel Inspections July 1- Aug 31
East San Joaquin Water Quality Coalition	300
San Joaquin County and Delta Water Quality Coalition	332
Sacramento Valley Water Quality Coalition	1
Westside San Joaquin River Water Quality Coalition	4
Total	641

REMINDER LETTERS FOR ENROLLMENT

During this sensitive time of the pandemic, Water Board staff has implemented sending out a reminder letter prior to sending a 13260-directive letter to owners of potential commercial irrigated lands identified through staff inspections of agricultural-zoned parcels. The reminder letter is sent to these non-filers giving them information on the ILRP and how to enroll. This process is a softer approach giving the recipient time and information to respond to our request to enroll in the ILRP. Staff will then follow up with directive letters. Coalition areas not shown had no reminder letters mailed during the reporting period.

Coalition Area	Parcel Inspections July 1- Aug 31
Sacramento Valley	166
East San Joaquin	104
San Joaquin and Delta	69
Total	339

WATER CODE SECTION 13260 DROPPED-MEMBER DIRECTIVES

Staff also sent dropped-member directive letters during this period. These directives were sent to members dropped from the Coalitions' participant lists and may include members with unpaid dues. The directive requires the recipients to re-enroll with a third-party group within 15 days of receipt of the letter. Coalition areas not shown had no dropped-member directives mailed during the reporting period.

Coalition Area	13260 Directives sent Oct 1- Dec 31
San Joaquin & Delta	32
Total	32

NOTICES OF VIOLATION RESULTED IN SUBMITTAL OF NITROGEN MANAGEMENT PLAN SUMMARY REPORTS

Due to special circumstances in Sacramento Valley, a significant number of Nitrogen Management Plan Summary Reports from the 2018 crop year were still missing. When this issue was discovered, Water Board staff began working diligently with coalition representatives to obtain all the reports. There were initially over 400 missing reports from one subwatershed due to personnel leaving and the coalition's transition to a web-based reporting system. Phone calls were made and Notices of Violation (NOVs) were sent to coalition members missing Nitrogen Management Plan Summary Reports. The NOVs and phone calls resulted in members promptly providing their reports. It was a tremendous effort by Water Board and coalition staff working together to obtain all the reports for the 2018 crop year.

Coalition Area	NOVs Mailed July 1- August 31
Sacramento Valley	254
Total	254

COALITION ENROLLMENT SUMMARY

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program. Board staff is currently using the 2016 Department of Water Resources land use data along with other information including but not limited to current membership lists, dairy parcels and past inspection data. 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 should give us a clearer picture of the status of enrollment in the irrigated lands program.

SACRAMENTO RIVER WATERSHED COALITION GROUPS

CALIFORNIA RICE COMMISSION

On 19 July 2020, the California Rice Commission submitted a monitoring proposal for the Pyrethroid Control Program Baseline Monitoring Plan to be implemented during 2021. The plan is currently under staff review.

On 22 July 2020, the Executive Officer approved the 2020 Rice-Specific Groundwater Assessment Report Update. This Update provides a review of relevant groundwater data collected since the Rice-Specific Groundwater Assessment Report was completed in 2013, and a determination on whether revisions to low- and high-vulnerability acreage boundaries are needed. Staff provided draft comments on the report and received a revised submittal on 15 May 2020. No public comments were received on the Update.

SACRAMENTO VALLEY WATER QUALITY COALITION

On 20 May, the Sacramento Valley Water Quality Coalition submitted three management plan completion requests: 1) Copper in Lower Honcut Creek, 2) Copper in Pine Creek, and 3) Chlorpyrifos in Pine Creek. These requests were approved by the Executive Officer in August 2020.

On 17 June, the Sacramento Valley Water Quality Coalition submitted a Management Plan for Diazinon in Gilsizer Slough. This plan is currently under staff review.

On 1 August, the Sacramento Valley Water Quality Coalition submitted the Monitoring Plan Update for Water Year 2021. This plan is currently under staff review.

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

EAST SAN JOAQUIN WATER QUALITY COALITION

On 17 July, Water Board staff sent a review letter package to the Coalition for the Groundwater Trend Monitoring Workplan: 2020 Revisions and Update (2020 GQTMP), as well as the 2019 GQTMP analytical data to Geotracker. The 2021 GQTMP with updates/revisions need to be submitted at least 60 days prior to the start of the 2021 sampling.

On 22 July, the Executive Officer approved amendments to the Coalition's Quality Assurance Project Plan. The Coalition updated its Quality Assurance Project Plan (QAPP) to include analytical methods and measurement levels for new pesticides identified through the Pesticides Evaluation Protocol.

On 1 August, the Coalition submitted the 2021 water year Monitoring Plan Update report, including an excel workbook of the monitoring schedule and the Pesticide Evaluation Protocol Results. The report is currently under staff review.

On 19 August, staff review of the Coalition's 2020 Annual Groundwater Quality Trend Monitoring Report (GQTMP) was sent to the Coalition. Staff recommends a few additions to future reports, including discussion of drinking water standard exceedances for all sampled parameters and of the drinking water well notification process completion for exceedance wells.

On 1 September, staff received the Coalition's Quarterly Monitoring Data Report for the period January 1 through March 31, 2020.

On 3 September, staff review of the Coalition's 2020 Annual Management Practice and Nitrogen Application Report was provided to the Coalition. The Coalition complied with all MRP Order monitoring and reporting requirements.

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

On 26 June, staff approved the 1 May 2020 San Joaquin County & Delta Water Quality Coalition 2019 Groundwater Trend Monitoring Program (GQTMP) Annual Monitoring Report.

On 22 July, the Executive Officer approved the 10/29/19 and 1/6/20 Coalition's QAPP Amendments. The amendments included new pesticides and analytical methods.

On 27 July, staff review of the 1 May 2020 San Joaquin County & Delta Water Quality Coalition Annual Monitoring Report for the reporting period 1 October 2018 through 30 September 2019 was provided to the Coalition.

On 1 August, the SJD Coalition submitted its annual 2020 Monitoring Plan Update by the Order's deadline for the 2021 Water Year. The Monitoring Plan Update proposes

the water quality monitoring schedule for the period between October 2010 and September 2021. It is under staff review.

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

On 23 July, the Water Board sent a review letter for the 2020 Groundwater Trend Monitoring Sampling Plan. Sampling is planned to occur at 25 wells in late summer or early fall of 2020.

On 14 August, the Water Board sent an approval letter to extend the due dates for the pyrethroids baseline monitoring plan and monitoring completion. The monitoring plan will be submitted by 20 December 2020, and baseline monitoring will be completed by 19 March 2022.

TULARE LAKE BASIN COALITION GROUPS

KAWEAH BASIN WATER QUALITY ASSOCIATION

On 15 July 2020, staff provided comments to the Kaweah Basin Water Quality Association's Surface Water Monitoring Plan, 2019 Update. Staff recommended an addendum to the Monitoring Plan be provided that addresses the representativeness of the monitoring sites as well as provides documentation for relocating or eliminating the various monitoring sites.

WESTLANDS WATER QUALITY COALITION

On 20 August 2020, staff provided comments to the Westlands Water Quality Coalition's 2017 Source Identification Work Plan for surface water exceedances within the Coalition area. The constituents of concern included boron, molybdenum, selenium, electrical conductivity, and pH. The purpose of the investigation is to assess whether the presence of these constituents is due to naturally occurring geologic conditions and not irrigated agriculture. The Executive Officer approved the Work Plan.

On 28 August 2020, staff provided comments to the Westlands Water Quality Coalition's 2016 Surface Water Quality Management Plan. The Coalition has requested modifications to its surface water quality plan to better address the ephemeral nature of the streams in the Westlands area. However, the requested changes would require modifications to the MRP, which may be brought to the Board for consideration at a future date.

OTHER PROJECTS

CENTRAL VALLEY GROUNDWATER MONITORING COLLABORATIVE

On 21 August 2020, ILRP staff met with representatives of the Central Valley Groundwater Monitoring Collaborative to discuss the outline of items to be presented in

the combined coalition five-year summary report, the first of which is due 30 November 2021.

GROUNDWATER PROTECTION FORMULA

On 14 August 2020, ILRP staff and environmental justice group representatives attended a briefing to discuss the proposed Groundwater Protection Formula (GWP Formula) that was submitted jointly by 13 agricultural coalitions, per requirements of the General Orders' Management Practice Evaluation Program. The comment period for the submittal was extended to 15 September 2020 to allow additional time for public input. There will be an information item to discuss this during the October Board meeting.

MANAGEMENT PRACTICES EVALUATION PROGRAM PHASE 3 TECHNICAL MEMO

On 1 July 2020, ILRP staff received the Northern MPEP Group Coordinating Committee's Phase 3 Technical Memorandum, which updates and amends the Group's initial MPEP Workplan. The Phase 3 Technical Memorandum is currently under staff review.

INTERAGENCY COLLABORATION

On 27 July 2020, ILRP staff held a joint meeting with personnel from the Department of Pesticide Regulation to discuss program commonalities regarding Agricultural Managed Aquifer Recharge (Ag-MAR).

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.

In July and August, Data Management Team staff submitted 18 backlogged EDDs for Kings River Watershed Coalition Authority to SWAMP for subsequent CEDEN loading.

On 1 September, the Sacramento Valley Water Quality Coalition provided its second quarter 2020 data submittal. It is under staff review.

NORMAN'S NURSERY

On 21 September 2018, the Executive Officer approved the site-specific nitrate management plan for Norman's Nursery Linden facility. Norman's Nursery Linden and the SJ Delta Coalition are jointly implementing a Management Plan to address surface

water and groundwater nitrate exceedances observed during 20 years of monitoring under MRP 97-811.

On 1 May, Norman's Nursery submitted its annual Management Plan Progress Report, which is currently under staff review.

RICE PESTICIDES PROGRAM

The annual Rice Pesticide Program Stakeholder Meeting will be held via a Zoom meeting on 13 November 2020. Thiobencarb monitoring results for the 2020 season will be presented and discussed.

NON-POINT SOURCE (NPS)

CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

Staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Staff is in the process of drafting and sending enforcement orders to each responsible party to obtain this information. There have been delays in this process due to restrictions caused by COVID-19.

On 13 May 2020, Forest Service staff submitted their deliverables under the 13267 Order issued on 10 March 2020. Staff is currently reviewing this information.

On 15 January 2020, staff issued a 13267 Order requiring an updated load estimate based on recent irrigated agriculture surveys, updated management practices, and steps outlined in their response to a previous 132670 Order. On 20 March 2020, Board staff received a request for an extended deadline to submit an updated technical report due to delays associated with COVID-19. This request was submitted to provide additional outreach and training sessions for growers to submit through a new online system and time to evaluate recent data for the technical report. Based on the continued progress of Irrigated Agriculture in assessing compliance with their load allocation, Central Valley Water Board granted Irrigated Agriculture an extension to submit the technical report. The report must be submitted by 31 March 2021.

On 22 August 2019, a Time Schedule Order (TSO) request was submitted on behalf of Lake County MS4 co-permittees. On 13 December 2019, the Board issued a TSO to the permittees. The TSO includes a schedule of when the permittees will comply with their load allocation. On 31 January 2020, staff received deliverables from the MS4 permittees regarding their best management practices. Staff is currently reviewing this information. On 25 March 2020, Board staff received and approved a request for extended deadlines. On 24 June 2020, Board staff issued a Notice of Violation (NOV) for failing to meet the extended deadline for the second deliverable under the TSO. The permittees submitted the requested deliverables. Staff is in the process of reviewing the information to verify the NOV was fully addressed. Staff is currently in the process of providing an extension on the third deliverable, which requires the permittees to submit a BMP effectiveness assessment.

On 24 September 2019, staff issued USBLM a 13267 Order requesting information regarding compliance with their load allocation as well as post-fire management practices. On 17 December 2019, USBLM submitted a progress report outlining the steps they are taking to estimate their load reduction. USBLM also submitted a request for a three-month extension for the submittal of their final report. Staff approved this extension. On 19 May 2020, Board staff suspended the 13267 Order until restrictions are lifted for the Ukiah Field Office staff to conduct the monitoring necessary to gather information for their load allocation. On 15 September 2020 staff reinstated the Order with an extended deadline of 1 February 2021.

On 10 October 2019, staff sent County of Lake a 13267 Order regarding their nonpoint source load allocation. On 31 January 2020, staff received their first deliverable from Lake County, which is a list of their management practices to reduce erosion into Clear Lake. Staff is currently reviewing this information. On 25 March 2020, Board staff received a request for extended deadlines to submit a rough estimate of Lake County's load reduction due by 31 March 2020 and a final technical report that describes management practices implemented to reduce phosphorus loads to Clear Lake due by 30 June 2020. Based on the continued progress of Lake County in assessing compliance with their load allocation and restrictions caused by COVID-19 guidelines, Central Valley Water Board has granted Lake County an extension to submit the estimate and technical report. The estimate must be submitted by 29 May 2020 and the report was to be submitted by 31 August 2020. On 24 June 2020, Board staff issued a NOV to Lake County for failing to meet the 29 May 2020 deliverable. The County submitted the missing deliverable and the NOV was resolved. Lake County has requested an extended deadline to complete the technical report. This extension is being requested by the County in order to contract a consultant that can assess an accurate load reduction. Board staff are in the process of assessing a timeline for this extension.

The Blue-Ribbon Committee for the Rehabilitation of Clear Lake met remotely on 18 June 2020. Updates were provided by Committee members and UC Davis. The Committee also discussed funding issues for recommendations. The Blue-Ribbon Committee is scheduled to meet next on 23 September 2020. Meeting details are publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency's [Blue Ribbon Committee website](https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake) (https://resources.ca.gov/Initiatives/Blue-Ribbon-Committee-for-the-Rehabilitation-of-Clear-Lake).

Staff also coordinated with agencies, organizations, and Tribes in Lake County to develop a joint brochure focused on educating residents about nutrient management and steps they can take to reduce nutrient impacts/erosion into Clear Lake. Central Valley Water Board acted as lead in this effort. The was finalized in August 2020.

More information about the Clear Lake Nutrient Control Program can be found on the [Clear Lake Nutrient TMDL webpage](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.html) (https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.html).

CANNABIS

On 1 September 2020, the Redding Office Cannabis Enforcement and Permitting/Compliance Units combined into one unit under Jason Schroeder as Senior EG and Program Manager. This change resulted from a shortfall in program funding across the state. Three positions been reassigned to other programs and all but two existing vacancies in the region are frozen indefinitely. This condensing of the program has and will continue to result in the need to focus staff time on very specific activities; permitting, permitting enforcement and enforcement on illegal cultivation activities impacting water quality.

GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Staff have been actively reviewing and processing enrollments under the Statewide General Order and have been continuing to conduct outreach and enrollment enforcement efforts to ensure eligible cultivators enroll in the Statewide General Order. Table 1 provides a summary of the Statewide General Order enrollments in the Central Valley Region to date.

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	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	3	22	4	0	20	3	0	52
Colusa	2	1	0	0	1	0	0	4
Contra Costa	1	0	0	0	0	0	0	1
El Dorado	0	3	0	0	1	0	0	4
Kern	1	0	0	0	0	0	0	1
Lake	14	79	2	0	82	1	1	178
Fresno	4	0	0	0	0	0	0	4
Merced	5	0	0	0	0	0	0	5
Nevada	18	197	3	2	6	0	0	226
Sacramento	131	0	0	0	0	0	0	131
Sierra	0	2	0	0	0	0	0	2
Solano	4	0	0	0	0	0	0	4
Shasta	0	0	0	0	0	0	0	0
Siskiyou	5	0	0	0	0	0	0	5
Stanislaus	16	6	0	0	2	0	0	24
Tulare	6	0	0	0	0	0	0	6
Yolo	2	17	0	0	46	0	0	65
Yuba	2	0	0	0	0	0	0	2

County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Totals	214	327	9	2	158	4	1	714

OUTREACH

Staff have not conducted outreach events since the last Board Meeting due to COVID-19 restrictions though several fall events are in development.

COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

ENROLLMENT ENFORCEMENT

On February 26th, 91 enrollment enforcement letters were issued in the North Rock Creek subwatershed of the Yuba River, in Nevada County. Staff are currently processing responses to this latest batch of letters.

COMPLIANCE

On August 19, staff performed 2 compliance inspections in Nevada County.

ENFORCEMENT

On July 21-22, staff performed 4 enforcement inspections in El Dorado County.

On July 30, staff performed an inspection in Amador County.

On August 4, staff performed an enforcement inspection in Lake County.

On August 7, staff performed 3 enforcement inspections in El Dorado County.

On Aug 27, staff performed 2 enforcement inspections in Nevada County.

On September 8, staff performed an enforcement inspection in Nevada County.

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

The 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.

Updates and conclusive findings on the results listed in Table 1. below can be found on the [California Harmful Algal Blooms Portal](https://mywaterquality.ca.gov/habs/) at: (https://mywaterquality.ca.gov/habs/).

LATE SUMMER 2020 – CENTRAL VALLEY BLOOMS

Cyanobacterial blooms 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 cyanobacterial blooms for the period from 14 July 2020 to 11 September 2020 is provided in Table 1.

Table 1. Cyanobacteria Bloom Summary: 14 July 2020 to 11 September 2020

Category	Count
Number of Suspected Blooms Investigated since previous EO Report	38
Number of Confirmed Blooms ¹ since previous EO Report	34
Number of Continuing Blooms ¹ from previous EO Report	3
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	29
Number of Human Illnesses Reported since previous EO Report (under investigation) ²	2
Number of Animal Impacts Reported since previous EO Report (under investigation) ³	2

¹ Confirmed and continuing blooms are identified through response actions by Water Board staff or by monitoring programs conducted by other stakeholders.

² Minor sickness from inhalation and bad odor in Clear Lake (Cache Creek)

³ 1 dog illness in Discovery Bay, 1 fish kill event in Kern County (Pine Mountain Club)

GRANTS

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

Approximately \$4 million each year 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](https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html) at:

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

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

SOUTH FORK BATTLE CREEK SEDIMENT REDUCTION AND WATER QUALITY ENHANCEMENT PROJECT (\$511,160)

In 2012, the greater Battle Creek watershed was impacted by the Ponderosa wildfire. The resulting increases in post-fire stormwater runoff has led to continual discharges of sediment, metals, nutrients, and other pollutants to the adjacent streams, threatening aquatic wildlife (including anadromous salmonids – a threatened and endangered species) and public health (drinking water). A 3.5-mile section of legacy road Ponderosa Way in eastern Tehama County, north of Highway 36 (project area), was identified and prioritized as an area needing sediment and erosion control treatments to minimize the continued discharges of sediment to South Fork Battle Creek. In 2019, a grant application proposal was prepared by the Tehama County Resource Conservation District (RCD) outlining implementation of the identified erosion and sediment control measures for the project area. In April 2020, the State Water Board approved the use of Clean Water Act section 319 grant funds for the proposed project. In August 2020, the RCD submitted an updated statement of work and budget for review and consideration. The State Water Board is working to finalize the grant agreement to implement the proposed project by 2/28/2022.

EIGHTMILE VALLEY SEDIMENT REDUCTION AND HABITAT ENHANCEMENT PROJECT (\$749,992)

The Bureau of Land Management will reduce the volume of sediment delivered to Clear Lake by realigning a severely eroded stream channel, establishing a prescriptive treatment for erosion control, installing grade control structures and engineering bank revetment using hardscape, bioengineering and revegetation. (Closing 4/30/2021)

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

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the generation and transport to waterbodies of agricultural chemicals, sediment, and nutrients from sites within the Sacramento-San Joaquin Delta. (Closing 2/28/2023)

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:

PONDEROSA WAY ROAD ASSESSMENT AND SEDIMENT REDUCTION PLAN (PHASE II) (\$500,000)

The Tehama County Resource Conservation District has conducted a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). The survey will result in a sediment reduction plan for the Project Area with one demonstration project in the Project Area. The demonstration project will serve to illustrate potential implementation measures that result in sediment reduction along Ponderosa Way in the Project Area. A time extension has been approved and an amended grant agreement was signed on 27 April 2020. The demonstration project is expected to be complete before the upcoming winter period. (Closing 2/28/2021)

NORTH BUTTE COUNTY ROAD INVENTORY AND IMPROVEMENT PROJECT (\$375,000)

During the 8th quarter reporting period (April 1, 2020 to June 31, 2020) the Butte County RCD (BCRCD) worked with Pacific Watershed and Associates (PWA), Butte County Public Works (BCPW), and Contractor (Lamon Construction) to complete sediment reduction treatments on Powellton Road. The BCRCD and PWA provided construction oversight in coordination with Butte County Public Works. BCRCD and PWA took during and post construction photos. PWA is finalizing Site Sediment Inventory, GIS Site map, and Action Plan. The project is on schedule to be completed on time and within the proposed budget. (Closing 2/28/2021)

POST-FIRE RESPONSE TO FOREST MANAGEMENT (\$329,519)

The California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, contour ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest. A time extension was approved to synthesize and quantify data collected over the course of this study. Dr. Joe Wagenbrenner (U.S. Forest Service) and Drew Coe (CAL FIRE) submitted a draft manuscript titled, "Hillslope sediment production after wildfire and post-fire management in northern California" to the journal Hydrological Processes summarizing the results of the study. Statistical analysis of results and the drafting of a final peer-reviewed manuscript are underway. (Closing 3/31/2021)

BATTLE CREEK WATERSHED ROAD SEDIMENT REDUCTION PROGRAM PHASE 1 & 2 (\$406,350)

The Western Shasta Resource Conservation District has completed a 23-mile road assessment inventory in the North Fork Battle Creek watershed in Shasta County. The grantee has compiled and prioritized all road-related sediment inputs described in the

road assessment inventory into a final Action Plan report. A technical advisory committee (TAC) and subsequent field workshop were conducted in July 2020, resulting in selection of demonstration sites. The grantee and Shasta County Public Works have begun implementation on two demonstration sites along Rock Creek Road and Forward Mills Road. The grantee continues to facilitate progress on permitting, contracting, and compliance in preparation for implementation of additional demonstration sites. (Closing 10/31/2021)

DEER CREEK NORTH YUBA RIVER WATERSHED ASSESSMENT AND SEDIMENT REDUCTION PLAN (\$255,100)

The purpose of this project is to implement erosion control treatments to reduce sediment delivery to streams from U.S. Forest Service system roads, unauthorized roads, legacy skid trails, and landings within the North Yuba River Watershed. American Rivers Inc. have inventoried approximately 67 miles of roads, skid trails, and landings within the project area and have prepared an Action Plan to implement at least 15 miles of erosion control treatments. Construction of the demonstration project commenced in mid-August and is currently on schedule. (Closing 2/28/2022)

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy has thinned approximately 243 acres of merchantable timber under a CAL FIRE Fire Prevention 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. All deliverables due have been submitted to date. The total spent is roughly 30% and the project is slightly ahead of schedule. (Closing 3/30/2022)

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. The grantee is currently working with contractors, CA Department of Fish and Wildlife, and the Regional Board staff on the preparation of environmental permit applications. (Closing in 2023)

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

The purpose of this 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 included in planned work. 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. (Closing in 2023)

PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH

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

On 15 July and 16 September, Alex MacDonald presented Aerojet updates to the Aerojet Community Advisory Group highlighting field activities undertaken by Aerojet. This included construction of new monitor wells and cleanup at Area 40. A discussion was also provided on the occurrence of PFAS in groundwater at Aerojet and the proposed construction of a consolidated waste management unit on the old White Rock Road North dump to take in contaminated soils.

*On 23 July, Omar Mostafa and Lourin Hubbard 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 11 August, Lourin Hubbard participated (via conference call) in the Fresno Environmental Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

*On 12 August, Jeff Hannel and Lourin Hubbard participated (via conference call) in the Kings IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

*On August 14th, ILRP staff participated in a meeting with representatives from Clean Water Action, Community Water Center, American Rivers, and Leadership Counsel for Justice and Accountability and the agricultural coalitions to discuss the use of the Soil and Water Assessment Tool for the Groundwater Protection Formula.

On 20 August, Alex MacDonald was one of 5 trainers providing a training on the Interstate Technical Regulatory Councils’ DNAPL Investigation Optimization document. The training is provided free of charge and was given to 235 state and federal regulators, consultants and members of the public.

*On 27 August, Omar Mostafa and Lourin Hubbard 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 8 September, Jeff Hannel and Lourin Hubbard participated (via conference call) in the Fresno Environmental Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On September 9, Elizabeth Betancourt met with a UC Merced team to discuss potential complementarity of the CalMAIN concept and efforts of the staff at Innovation Center for Ecosystem Climate Solutions. Significant potential for collaboration was found, and future meetings integrating the stakeholder groups of each effort will be planned for later this year and into 2021.

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 CECs 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 in July 2018.

On 17 August 2020, the QAPP and Sampling and Analysis Plan (SAP) for the Work Plan were reviewed by the Technical Advisory Committee of the Delta Regional Monitoring Program and recommended to the Steering Committee for approval. On 27 August 2020, the Steering Committee approved the QAPP and SAP. The State Board Quality Assurance Officer is currently reviewing the documents for signature. Sediment samples were also collected in August. The sediment samples will be analyzed in September when additional monitoring is planned to take place after the QAPP and SAP are approved.

CAMP FIRE

POST CAMP FIRE DIXIE ROAD SEDIMENT REDUCTION PROJECT (\$500,000)

The Dixie Road project is for the purpose of implementing 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. The Dixie Road project is currently moving through the environmental review, including submitting a California Fish and Wildlife 1600 permit. (Closing 1/31/2022)

CAMP FIRE ROAD RIGHT-OF-WAY HAZARD TREE REMOVAL PROJECT

Cal OES in coordination with Cal Recycle has prepared an extensive plan to remove between 300,000 and 500,000 burned trees from the road right-of-way through the Camp Fire footprint. Central Valley Water Board staff has collaborated with the multi-agency team to assess potential water quality impacts, determine permitting needs, and provided feedback on the environmental documents prepared for the project. Several protests have been filed on the project and a decision on moving forward is expected by 9 November 2020.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – JULY 1, 2020 – AUGUST 31, 2020

PROMOTIONS:

None

LEAVE OF ABSENCE:

Danielle Goode, Senior WRCE

Amy Ha, WRCE

RETIREMENTS:

None

Separations:

None

SUMMARY OF POSITIONS:

Total Authorized Positions: 275.7

Total Vacant Positions: 31.5

Sacramento

Authorized Positions: 148

Vacancies: 16.5

Fresno

Authorized Positions: 76

Vacancies: 8

Redding

Authorized Positions: 51.7

Vacancies: 7

Temporary Positions:

New Hires:

None

Separations:

Sheri Owen, Seasonal Clerk

Jasmine Mostafa, Scientific Aid

TRAINING UPDATES – JULY 1, 2020 – AUGUST 31, 2020

Class Title	Number of Attendees
2020 ESRI User Virtual Presentation	1
24 Hour HAZWOPER	2
4-Hour Field Safety Training	3
Admin 109 - Waterboards 101 - Introduction to DDW	5
California Leadership Academy – Supervisor Development Program (80 Hour Program)	4
Characterization and Remediation of Fractured Rock	1
Creating Accessible Adobe PDF Documents	14
Creating Accessible Word Documents	4
Creating ADA Accessible Documents	9
Critical Thinking	2
CV-SALTS Salt and Nitrate Compliance Webinar	1
Delegating for Results	7
Editing	2
EEO: Workplace Rights and Responsibilities	8
Emotional Intelligence	2
Emotional Intelligence: Mindfulness-based Emotional Intelligence from Good to Great	1
Ergonomics: The Homemade Home Office	2
Field Safety Training	2
Forensic Engineering Geology of Landslides	1
Habits: A Science Based Approach	6
Hazard Communication Program	1
Highly Effective Professional Writing	3
HYST 113 - What to do if an employee is injured.	1

Class Title	Number of Attendees
Information Privacy and Security Training	1
Injury and Illness Prevention/Hazardous Communication Training - IIPP Training	1
Integrated DNAPL Site Characterization	1
Interpersonal Communication Skills	2
Intro to Applied Statistics	7
Introduction to Applied Statistics	2
Introduction to Watershed Assessments	2
Mastering Grammar	3
Optimizing Injection Strategies and in situ Remediation Performance	1
PFAS Transport, Fate & Remediation in Soil & Groundwater	5
PFAS Transport, Fate & Remediation of Emerging Contaminants of Concern	6
Rapid Geomorphic Assessments of Stream Channels	7
Remediation of Emerging Contaminants of Concern	1
Sexual Harassment Prevention and Other EEO Issues	1
Statistics Refresher	2
Time Management	2
Transition During Difficult Circumstances	1
Transport Fate and Remediation of Emerging Contaminants of Concern	1
Trust Among Remote Team Members	6
Water Boards 101: Introduction to DDW	1
Water Boards 101: Training Services	4
Water Boards 101: Training Services For TL/AO	1
Water Leadership Program: An Insider's Look	5
Waterboards 101: Introduction to DDW	1
Web Accessibility: Accessible Microsoft Office Documents	1
What to do if an Employee is Injured	1

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
17-084-150, Amendment 1	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services, Redding Office	05/24/2018	09/30/2020	\$60,000
20-026-150	TBD	Fixed wing aircraft - Aerial surveillance services	TBD	6/30/2023	\$60,000
20-012-150	TBD	Helicopter aerial surveillance services (Consolidated Region 5 contract – SB 901 funds)	TBD	TBD	\$185,000

WATER QUALITY STUDY/PLANNING

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
18-027-150	UC Davis	Tech assistance to determine pyrethroid partition coefficients for sediment samples of the Central Valley.	11/29/2018	01/31/2021	\$100,000
18-053-150	Caltest Analytical Laboratory	Lab services (Rancho Cordova office)	08/15/2018	06/30/2021	\$240,000
18-054-150	Basic Laboratory, Inc.	Lab services (Redding office)	08/15/2018	06/30/2021	\$165,000
18-055-150	Moore Twining Assoc. Inc.	Lab services (Fresno office)	08/15/2018	06/30/2021	\$195,000
18-057-150	UC Davis	Interpretation of Soil Chemistry	07/01/2018	01/31/2021	\$199,987
18-058-150	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads, cycling and characterize ecosystem	07/01/2018	03/31/2021	\$400,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
		response under current and future scenarios.			
18-084-150	Southern California Coastal Water Research Project Authority	To organize and facilitate a Surface Water Expert Panel to evaluate the adequacy of the surface water monitoring and assessment framework in the Eastern San Joaquin (ESJ) River Watershed General Waste Discharge Requirements	4/17/2019	01/30/2021	\$249,806
19-003-150	Southern California Coastal Water Research Project Authority	The project will identify the environmental drivers contributing to cyanobacterial blooms and toxin production in Clear Lake, Lake County.	9/27/2019	03/31/2022	\$510,000
19-004-150	34 North	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	11/21/2019	3/31/2022	\$95,000
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	6/30/2022	\$525,000
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	TBD	11/30/2023	\$250,000
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.	TBD	1/31/2023	\$200,000

FUTURE BOARD ACTIVITIES

DECEMBER 2020 BOARD MEETING

NPDES PROGRAM – PERMITS

- Sacramento Regional WWTP, Renewal
- City of Turlock Regional WQCF, Renewal
- City of Manteca WQCF, Renewal
- UC Davis Main WWTP, Renewal
- City of Shasta Lake WWTF, Renewal
- Mariposa Public Utility District WWTF, Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Tasteful Selections, New WDRs
- Bronco Winery, Revised WDRs
- Grimmway Shafter Facility, Revised WDRs
- Los Banos WWTF, Revised WDRs
- Fresno County Service Area 31B WWTF, Revised WDRs

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Corcoran Landfill, Revised WDRs

FEBRUARY 2021 BOARD MEETING

NPDES PROGRAM – PERMITTING

- Sequoia/Kings Canyon National Parks Rotenone Application, New
- Bell Carter Industrial WWTP, Renewal
- Donner Summit Public Utility District WWTP, Renewal
- Sixteen-to-One Mine, Renewal
- Thunder Valley Casino WWTP, Rescission
- Chester PUD Sewage Treatment Plant, Renewal
- Nevada CSD No. 1 Cascade Shores WWTP Rescission
- Lincoln Center GWTS, Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Modesto WWTF, Revised WDRs
- California Concentrates, New WDRs
- Dunigan Water Works, Revised WDRs
- Jamestown WWTF, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- Goose Lake Alternative Framework – Resolution or Info Item

STORM WATER AND WATER QUALITY CERTIFICATION PROGRAM

- Dredging General Order (tentative)

APRIL 2021 BOARD MEETING

NPDES PROGRAM – PERMITTING

- Sierra Pacific Industries, Quincy Division Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- JR Simplot, Revised WDRs
- Grayson WWTF, Revised WDRs
- Wonderful Pistachios Lost Hills, Revised WDRs
- Azteca Mining, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- ILRP General Order Updates for CV-SALTS

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

NPDES PERMITS

- Mountain House CSD WWTP, Amendment
- Santa Fe Aggregates Sand and Gravel Plant Renewal
- Bear Valley CSD WWTF Renewal

CONFINED ANIMAL FACILITIES

- Revision of Dairy General Order, Revised WDRs

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- Large Domestic WWTF General Order, New WDRs
- Nut Dryers and Hullers General Order, New WDRs
- Food Processors General Order, New WDRs
- America Raisin Packers, Revised WDRs
- Bogle Delta Winery, Amended WDRs
- City of Kettleman WWTF, Revised WDRs
- Mule Creek State Prison, Amended WDRs
- Rawson Road Septage Facility, Revised WDRs
- Salad Cosmo, New WDRs

ATTACHMENT A
ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 July 2020 through 31 August 2020

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	33	31%
Debris-General	23	22%
Pipe Structural Problem/Failure	11	10%
Grease Deposition (FOG)	10	9%
Other (specify below)	5	5%
Debris-Rags	4	4%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	3	3%
Debris-Wipes/Non-Dispersables	3	3%
Construction Diversion Failure	2	2%
Operator Error	2	2%
Pump Station Failure-Controls	2	2%
Air Relief (ARV)/Blow-Off (BOV) Valve Failure	1	1%
CS Maintenance Caused Spill/Damage	1	1%
Damage by others not related to CS Construction/Maintenance	1	1%
Debris from Construction	1	1%
Debris from Lateral	1	1%
Pump Station Failure-Mechanical	1	1%
Pump Station Failure-Power	1	1%
Vandalism	1	1%
Total	106	100%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 July 2020 through 31 August 2020

Office	Category 1	Category 2	Category 3	Total
5F	0	2	8	10
5R	3	0	2	5
5S	6	7	78	91
Total	9	9	88	106

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) – <Enter date> and <Enter date>

REGION	AGENCY	Collection System	SSO Event ID	County	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5R	Redding City	Redding City CS	868894	Shasta	Yes	41,000	41,000	8/31/20	Pipe Structural Problem/Failure
5S	Placer County Dept of Facility Services	SMD No. 1 CS	868339	Placer	Yes	48,609	28,900	8/3/20	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	California Department of Corrections and Rehabilitation	Mule Creek State Prison CS	868429	Amador	Yes	42,227	20,000	8/10/20	Pump Station Failure-Controls
5R	Shasta Lake City	Shasta Lake CS	868358	Shasta	Yes	15,147	15,147	8/5/20	Debris-General
5S	Modesto City	Modesto CS	868257	Stanislaus	Yes	9,060	9,060	8/2/20	Grease Deposition (FOG)
5S	Placer County Dept of Facility Services	SMD No. 1 CS	867916	Placer	Yes	8,040	6,579	7/14/20	Pipe Structural Problem/Failure

ATTACHMENT A

REGION	AGENCY	Collection System	SSO 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	868147	Sacramento	Yes	604	499	7/24/20	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5R	Corning City	Corning Industrial/Domestic CS	867767	Tehama	Yes	300	300	7/5/20	Debris-Rags
5S	Placer County Dept of Facility Services	SMD No. 1 CS	868597	Placer	Yes	310	41	8/23/20	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)