

13/14 August 2020 BOARD MEETING

AGENDA ITEM: 12

SUBJECT:

Executive Officer's Report and End of Year Program Assessments

BOARD ACTION:

Any Discussions?

BOARD MEETING LOCATION:

Central Valley Regional Water Quality Control Board
11020 Sun Center Dr. #200
Rancho Cordova, CA 95670

Internet Zoom Meeting

EXECUTIVE OFFICER'S REPORT

13/14 AUGUST 2020

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

Patrick Pulupa, Executive Officer



ITEMS IN THIS REPORT

SUCCESS STORIES	3
STAFF RECOGNITION.....	7
ENFORCEMENT.....	13
SANITARY SEWER OVERFLOWS (SSOS) AND COMPLAINTS	18
DELTA ACTIVITIES	24
TMDL BASIN PLANNING	27
SALINITY AND CV SALTS	30
SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP).....	31
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).....	32
DAIRIES/CONFINED ANIMAL FACILITIES.....	34
OIL FIELDS.....	34
IRRIGATED LANDS REGULATORY PROGRAM (ILRP)	40
NON-POINT SOURCE (NPS)	47
CANNABIS.....	48
CYANOBACTERIA BLOOMS UPDATE.....	50
GRANTS	51
PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH	54
GENERAL UPDATES TO THE BOARD	56
PERSONNEL AND ADMINISTRATION.....	57
FUTURE BOARD ACTIVITIES	62
ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY.....	65

SUCCESS STORIES

SITE CLEANUPS

UNION PACIFIC RAILROAD COMPANY, RED-DYE DIESEL SPILL FEATHER RIVER, CASE SLT5R0014, PLUMAS COUNTY

On 24 July 2018, approximately 265 gallons of red-dyed diesel fuel spilled onto the western side of a rail line when a locomotive struck a rock. Diesel fuel was observed on ballast rock, along the bedrock slope, in small pools, and in the Feather River below the release location. Response efforts conducted between 24 and 30 July 2018 removed approximately 260 gallons of diesel by excavation, flushing, and capture on absorbent boom in the river. Surface water sampling conducted in August 2018, November 2019, and December 2019 indicated concentrations ranging from non-detect to low concentrations where the spill had entered the river. Central Valley Water Board staff (Staff) closed the case in June 2020 because the diesel has been cleaned up to the extent feasible.

MODERN CLEANERS, CORNING, CASE SLT5R1021, TEHAMA COUNTY

Staff of the Redding Groundwater Unit are overseeing an investigation of the potential water quality and vapor intrusion threats associated with a release of perchloroethylene (PCE) dry cleaning solvent from former dry cleaners and other sources along Solano Street in the City of Corning. The \$329,000 investigation is funded by the State Water Resources Control Board Site Cleanup Subaccount Program (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. In June 2020, Staff and management discussed the preliminary soil vapor results with state and local authorities and filed a Proposition 65 Notice. In late June, Staff distributed a fact sheet with an investigation update to over 700 residents and businesses within ¼-mile of the study area. More investigation is needed to determine the possible health risk from PCE vapors that may be entering buildings. The Water Boards are working to identify funding to continue this investigation. However, this process may take time due to current impacts to the state budget.

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.

FRESNO

WESTCHESTER MOBIL, 3200 F STREET, BAKERSFIELD, KERN COUNTY

The Site has been a convenience store with retail motor fuel sales since 1967. Westchester Mobil (WM) discovered an unauthorized release during an August 2018 site assessment when it detected low concentrations of gasoline constituents beneath the USTs. WM installed and sampled monitoring wells but did not detect gasoline constituents in groundwater. WM estimates that less than 30 pounds (5 gallons) of gasoline remains in the subsurface. The remaining hydrocarbon mass will be further reduced by natural attenuation and is not likely to pose a threat to human health and safety or the environment. The case was closed in accordance with the Low-Threat Closure Policy on 15 June 2020.

GONZALES MINI MART, 1278 OLLER STREET, MENDOTA, FRESNO COUNTY

The Site was previously operated as a convenience store with retail fuel sales but is currently an empty lot. Gonzales Mini Mart discovered a release when it removed the gasoline UST system in 1990. From June 2010 through October 2014, the former property owner conducted soil and soil vapor sampling to evaluate the concentration, extent, and distribution of gasoline constituents in the subsurface. The former property owner remediated the property by excavating petroleum-impacted soil in 1990, 2013, and 2015 to a depth of up to 12 feet below ground surface (bgs). Approximately 33 tons of impacted soil was removed for offsite disposal. Groundwater monitoring conducted from June 2010 through March 2018 demonstrated that the remedial excavations significantly reduced the areal extent and contaminant concentrations in groundwater. Remaining petroleum hydrocarbons should continue to naturally attenuate and not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The case was closed in accordance with the Low-Threat Closure Policy on 6 May 2020.

SUN MAID GROCERY, 1952 N. ACADEMY, SANGER, FRESNO COUNTY

Sun Maid discovered a release in May 2006 when it removed the UST system and detected gasoline constituents in soil during the removal action. Sun Maid subsequently investigated the extent of the release with benzene, toluene, ethylbenzene, and xylenes (collectively BTEX) and MTBE detected in groundwater at up to 25,000 micrograms per liter ($\mu\text{g/L}$) and 3,700 $\mu\text{g/L}$, respectively. Sun Maid regularly sampled on- and off-site water supply wells and analyzed the samples for gasoline constituents, which they detected in only one well on two occasions. They also sampled the adjacent creek

sampled regularly and had no detections. Gasoline constituent concentrations decreased and were not detected during the last groundwater monitoring events. Initially, Sun Maid estimated that 19,900 pounds (3,300 gallons) of petroleum hydrocarbons were present in the subsurface. Soil vapor extraction and air sparging removed an estimated 6,700 pounds (about 1,000 gallons) of petroleum hydrocarbons from the subsurface. The remaining petroleum hydrocarbons are expected to continue to reduce by natural attenuation and should not pose a threat the human health and safety or the environment. The case was closed in accordance with the Low-Threat Closure Policy on 28 April 2020.

SACRAMENTO

SIERRA VILLAGE CHEVRON, 24967 HIGHWAY 108, SIERRA VILLAGE, TUOLUMNE COUNTY

The Site is currently an active fueling station, convenience store, and automotive repair facility located in rural Sierra Village with residential and commercial properties located at and adjacent to the Site. In September 1998, Sierra Village Chevron (Sierra) upgraded three gasoline USTs and one diesel UST with interior linings and in November 1998 removed a 1,000-gallon waste oil tank. Soil samples collected during the tank removal indicated that unauthorized release had impacted soil at the Site. Sierra subsequently conducted a groundwater investigation that indicated the unauthorized release had also impacted groundwater. Between September 2009 and July 2012 Sierra remediated groundwater by O-SOX treatment. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. Residual petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate and do not justify the cost of any additional active remediation or monitoring. Central Valley Water Board staff closed this case on 19 June 2020.

NORTHERN REFRIGERATED TRANSPORTATION, 2700 WEST MAIN STREET, TURLOCK, STANISLAUS COUNTY

The Site is currently a distribution terminal and corporate office operated by Northern Refrigerated Transportation, Inc. (Northern). On 10 May 2013, a spill bucket associated with a Site UST storing diesel fuel failed testing. On 28 June 2013, Donlee Pump Company replaced the spill bucket and collected two soil samples beneath the spill bucket at a depth of 2 feet bgs. The samples contained diesel-range petroleum hydrocarbons (TPHd) at concentrations up to 12,800 milligrams per kilogram (mg/kg). On 8 August 2013, Northern excavated 24 cubic yards of diesel-impacted soil from beneath the spill bucket and collected a soil sample from 4.5 feet bgs; the sample contained 39.5 mg/kg TPHd. Northern stockpiled the excavated soil on plastic sheeting for on-site treatment consisting of periodic mixing and fertilizer addition. Northern collected a sample from the stockpiled soil on 15 October 2019. The lab did not detect TPHd in the sample at a concentration exceeding the laboratory reporting limit (1.0 mg/kg). Sample results indicate that petroleum hydrocarbons are limited to the

upper approximately 4.5 feet of vadose zone soil and that groundwater is not threatened. On 17 April 2020, Central Valley Water Board staff closed the case.

SNOW MOUNTAIN, 21816 DONNER PASS ROAD, SODA SPRINGS, NEVADA COUNTY

The Site is currently unoccupied with no standing structures, located on the northern side of Donner Pass Road, just south of Highway 80 in Soda Springs. The Site is bordered by undeveloped commercial property and various residential properties. In October 1989, Herbst Engineering removed three USTs from the Site and detected petroleum hydrocarbons in soil samples collected during the tank removal. In November 1994, the property owner conducted an investigation that indicated the release had also impacted groundwater at the Site. In October 2019, Sierra West excavated and removed approximately 100 tons of petroleum hydrocarbon impacted soil to depths of 5.5 feet bgs from the Site. During the excavation Sierra West removed a previously discovered undocumented UST and an additional undocumented UST discovered during the excavation. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. The South Yuba River is located within 250 feet of the Site, but petroleum hydrocarbons were not detected above laboratory detection limits in any of the three surface water samples collected from the River during the September 2018 sampling event. Therefore, residual petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate. Consequently, they do not justify the cost of any additional active remediation or monitoring, and Central Valley Water Board staff closed the case on 29 June 2020.

REDDING

WESTWOOD SIERRA STATION (SIERRA SUPER STOP #14), CASE #180009, LASSEN COUNTY

In June 2010, petroleum hydrocarbons were detected in soil during removal of six underground storage tanks (USTs) and associated delivery piping and dispensers. Approximately 10 cubic yards of petroleum-impacted soil was removed and disposed offsite as part of the UST removal effort. The Central Valley Water Board became the lead agency for the case in May 2012. After reviewing the case file, Staff requested a site investigation because shallow groundwater was likely impacted. Subsequently, eight monitoring wells were installed, and routine groundwater monitoring was conducted between May 2013 and February 2018. Active remediation was conducted in 2015 using dual-phase and high-vacuum extraction and removed approximately 313 pounds of vapor phase hydrocarbon mass. The latest monitoring data indicate that the groundwater plume that exceeds water quality objectives is approximately 100 feet in length. A public water system supplies drinking water to the Site and adjacent properties. Central Valley Water Board staff closed the case under the Low-Threat Closure Policy in May 2020.

STAFF RECOGNITION

SUPERIOR ACCOMPLISHMENT AWARDS

At the June 4, 2020 Board Meeting, Executive Officer Pulupa presented Superior Accomplishment Awards to the following staff:

INDIVIDUAL SUPERIOR ACCOMPLISHMENT AWARDS

EMPLOYEE: Alex Mushegan
UNIT: Permitting
LOCATION: Fresno Office:
TITLE: Senior, Water Resource Control Engineer
SUPERVISOR: Scott Hatton

Alex has been an employee in the Fresno office for 8 years and has been a Senior Water Resource Control Engineer of the Non-15 Waste Discharge to Land Permitting Unit for two years. Alex is receiving this award not only for his hard work at managing the unit but for performing beyond his normal job duties during this time of the COVID-19 pandemic.

Alex is a great employee with tons of enthusiasm. He always provides excellent work that is completed in a timely manner and is invaluable at working towards meeting the unit's fiscal year goals. He is able to work with minimal oversight and consistently addresses any issues related to Waste Discharge Requirements, so they end up on the uncontested calendar at our Board meetings. His normal tasks include: managing engineers, geologists, and scientific aids; communicating with Dischargers and the public, mentoring other staff to become effective permit writers, and providing regular updates to management of the work completed by his unit.

In addition to his normal tasks, Alex has been selected to be a representative of Region 5 on a team that responds to requests from the regulated community that ask for relief from monitoring and reporting requirements, during the COVID-19 pandemic, and provides regular updates to Cal EPA. As a result, human health continues to be protected during the pandemic. Alex has helped draft template letters responding to requests and he is tasked with keeping track of the requests and our responses to ensure consistency.

Alex is a reliable and professional staff member and is very deserving of this award.

EMPLOYEE: Colt Brockman
UNIT: Nonpoint Source Unit
LOCATION: Redding Office:
TITLE: Environmental Scientist
SUPERVISOR: Griffin Perea, Supervising Senior Engineering Geologist

Colt Brockman has been selected to receive this Superior Accomplishment Award for his contributions to the Central Valley Water Board. Colt is an Environmental Scientist in the Nonpoint Source Unit in the Redding office and provides oversight for timber harvesting and fuels management activities across 6 national forests managed by the U.S. Forest Service. In addition, Colt serves as the Forest Activities Program's liaison for Timber Regulation and Forest Restoration Fund grants and is the subject matter expert for several grants.

Colt started with the Water Boards in April 2018, bringing with him a diverse background and professional experience including wildland firefighting, rangeland management activities, and service in the U.S. Army. Colt's experience and his professionalism immediately benefited the Forest Activities Program. Colt is dedicated, reliable and brings a solid technical aptitude and ability to communicate with the regulated community.

Colt continually demonstrates his ability to manage a large and diverse workload, quickly adapt and respond to changes, and remain professional in difficult situations. Recently Colt, as technical lead and liaison to State Board for several grants

managed from the Redding office, has effectively facilitated communications between State Board personnel and grantees on several high priority grant projects to ensure project proposals could move forward. He focused on ensuring necessary documentation was submitted, and that last-minute changes and discrepancies could be accounted for. Colt has also followed through on a complex enforcement matter involving discharges from a rural road in Colusa county where he successfully worked with county personnel to ensure corrective actions were taken and will be assisting the county in monitoring to ensure the discharges have been remediated. Colt also serves as the Forest Activities Program's resident range management expert and has been instrumental in providing feedback to State Board staff on impacts and management of grazing in forested landscapes.

We are highlighting just a few examples of projects Colt has voluntarily taken on and excelled at, especially impressive given his already full core workload. He is hard working, dependable, and professional, with a positive attitude that is appreciated by all who have the opportunity to work with him. For this and much more, we are pleased to provide Colt this recognition.

TEAM SUPERIOR ACCOMPLISHMENT AWARDS

EMPLOYEES: Robert Ditto, Keri Yee, David Sholes, Eric Warren, and Phil Carter

UNIT: Irrigated Lands Regulatory Program

LOCATION: Sacramento Office:

TITLE: Various

SUPERVISOR: Sue McConnell, Supervising Water Resource Control Engineer

Robert Ditto, Keri Yee, David Sholes, Eric Warren, and Phil Carter have done an exceptional job of developing and implementing the drinking water well monitoring and

notification effort under the irrigated lands program. This monitoring effort is required by the State Water Board's East San Joaquin Petition Order and is different than other elements of the irrigated lands program in requiring staff to work directly with the almost 30,000 growers in the program.

Robert Ditto has lead this team in developing drinking water well monitoring outreach materials for growers and laboratories, working with State Water Board GeoTracker staff to ensure appropriate data would be entered and displayed, and developing the notification template for wells that exceeded the water quality standard for nitrate. They have developed easy to read and ADA-compliant grower templates as well as frequently asked question and informational trifold documents in multiple languages. They have met regularly with laboratory representatives and consultants to explain the monitoring requirements and to gather information about laboratory protocol. They sent out thousands of information packets to coalition members and answered hundreds of phone calls.

This team has worked tirelessly to get this new monitoring requirement rolled out to growers. They have provided outreach during ILRP stakeholder meetings, attended coalition annual meetings and have presented details of the monitoring requirements to thousands of growers. They continue to work closely with State Board GeoTracker staff to streamline how data is uploaded, displayed and utilized. They are also updating templates and providing easy to understand information regarding potential health effects of drinking water with elevated nitrate concentrations.

This team's incredibly hard work and effective coordination has resulted in more than 3000 wells being monitored for nitrate and timely user notification when nitrate concentrations are above the drinking water standard. The team is being recognized for the successful development and implementation of this important effort to protect public health, a top priority for our Board.

EMPLOYEE RECOGNITION AWARDS JUNE 2020 THROUGH JULY 2020

INDIVIDUAL EMPLOYEE RECOGNITION AWARDS

EMPLOYEE: Janelle Brown

UNIT: Admin

LOCATION: Sacramento Office:

TITLE: Associate Governmental Program Analyst

SUPERVISOR: Brett Braidman, SSMI

Janelle Brown has worked for the Regional Waterboard for more than 5 years. She serves as an Associate Governmental Program Analyst in the Operations Unit in the Rancho Cordova office. Janelle is deserving of this recognition for her consistently high-quality and accurate work products, her positive attitude, her absolutely, out-of-this-world work ethic and her incredible professionalism.

Over the last few years, the edict came down to make documents ADA complaint. Like many things, people often turn to Janelle when an analytical challenge arises --- which speaks volumes in and of itself and Janelle took that on with her usual great attitude and desire to help management and the overall team. By design, an AGPA is supposed to exercise an independent analytical ability in completing their work. Well, Janelle goes above and beyond in this area as well, creating spreadsheets, lab cost analysis documents and now Janelle is creating ADA tutorial videos – without being asked. Yes, ADA tutorial videos, you heard that right, the reviews are in on the ADA videos and they are quite good! Another five-star creative effort by Janelle.

If that wasn't enough, there is more. Janelle has shown herself to be a guru with lab sampling, ordering and dealing with the lab vendor since she started here at the Waterboard. Most recently, with Kiran's retirement, Janelle has stepped in and helped fill part of that void as well and received many well deserved "thank you's" from staff, EMG and Board members themselves. In short, Janelle's work ethic, ability, creativity and professionalism is a blessing to Admin and Region 5 overall.

Janelle Brown is very deserving of this award.

EMPLOYEE: Selina Cole

UNIT: Mercury Metals TMDL Unit

LOCATION: Sacramento Office:

TITLE: Environmental Scientist

SUPERVISOR: Lauren Smitherman, Senior Environmental Scientist

Selina Cole is a highly valued member of the Planning Section and she is being recognized for her efforts to lead the Mercury Exposure Reduction Program (MERP) and the Delta Regional Monitoring Program. Selina is a hard-working team member who takes on every project with enthusiasm, initiative and a great attention to detail. Selina's critical thinking combined with process development skills keep the projects she works on moving forward even when complex challenges arise.

The Delta Regional Monitoring Program is complex and involves monitoring a wide range of contaminants and coordinating numerous stakeholders. Selina attentively oversees all components and is often called upon by Board staff and RMP stakeholders for her knowledge and perspective of the program. She has recently become part of the leadership of the Program as a Co-Chair of the Technical Advisory Committee. She continues to serve as a Co-Chair on the Data Management Subcommittee.

The Mercury Exposure Reduction Program is wrapping up a multi-year successful effort that was well received by the Board. Selina diligently worked on this project to ensure the Board's needs and priorities were met despite many challenges.

We are fortunate to have Selina working at the Central Valley Water Board and she is well deserving of this award.

EMPLOYEE: Marcus Pierce
UNIT: Federal Cleanup Unit
LOCATION: Sacramento Office:
TITLE: Engineering Geologist
SUPERVISOR: John T. Murphy, Senior Engineering Geologist

Marcus joined the Central Valley Water Board's Site Cleanup Program in 1999, bringing ten and a half years of experience with him from the private environmental consulting industry. As an Engineering Geologist in the Federal Sites Cleanup Unit, he is responsible for providing technical oversight of environmental soil and groundwater investigations and cleanups at former Department of Defense (DOD) facilities along with some private sites.

Marcus' DOD case load includes facilities such as Mather Air Force Base, Sharpe Army Depot, Defense Logistics Agency Defense Distribution Depot in Tracy, and the Riverbank Army Ammunition Plant. These DOD facilities are particularly complex, with several operable units, multiple contaminants of concern, emerging contaminants of concern (e.g. PFAS), and significant hydrogeologic challenges. Regulation of these facilities requires close coordination with multiple regulatory agencies and providing critical input on keystone CERCLA documents.

Marcus also regulates private sites such as the former Nestle decaffeinating facility in Ripon. This Site was particularly challenging due to its main contaminant of concern being trichloroethylene (TCE), which not only caused groundwater pollution concerns but off-site vapor intrusion concerns as well. These vapor intrusion concerns received substantial scrutiny last year by the City of Ripon and its citizens. Nonetheless, Marcus professionally and successfully navigated the challenges of interacting with concerned parents, stakeholders, city officials, investigative journalists, and members of the press. This has resulted in trust between the Central Valley Water Board and Ripon citizens, which was no small task.

Marcus' professionalism, institutional and technical knowledge of the Federal and Private site cleanup processes as well as his ability to effectively interact with citizens and stakeholders has been vital to the Site Cleanup Program. For this and much more, Marcus is well-deserving of the Employee of the Month award.

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: Michael Parker

UNIT: Nonpoint Source (NPS) Permitting

LOCATION: Redding Office:

TITLE: Senior Engineering Geologist

SUPERVISOR: Griffin Perea, Senior Engineering Geologist

Michael Parker is an Engineering Geologist in the Redding office's NPS Unit and has been with the Central Valley Water Board since December 2016. Michael began his journey with the Board in the Cannabis Regulatory Program where he oversaw both permitting and enforcement duties. Recently Michael has transitioned into the NPS Unit to begin working in the realm of utility corridor management activities.

Michael has shown himself to be highly flexible in his workload and a very capable employee. During his transition to the NPS Unit, Michael has worked to quickly come up to speed on issues surrounding utility corridor vegetation management, including the current status of California Public Utilities Commission regulations and requirements, and how those regulations may interact with Water Board requirements. In addition to transitioning into a new unit, Michael has continued to oversee an enforcement matter from the Cannabis Program and has continued to assist staff as able in the Cannabis Program. Recently Michael has begun assisting with the development of standard protocols and workflow related to his utility work and has assisted the NPS Unit with proposed vegetation management project reviews.

Throughout Michael's time with the Central Valley Board he has continually been willing to take on new tasks and become involved in projects outside of his core work, all while being able to meet workplan commitments. Michael has demonstrated a positive attitude and has remained dedicated to work of the Central Valley Board. Michael is a valuable member of the NPS Unit and the Forest Activities Program and is very deserving of this award.

TEAM EMPLOYEE RECOGNITION AWARDS

EMPLOYEES: Lani Andam, Lixin Fu, Dina Calanchini, and Maxine Cottrell

UNIT: Waste Discharge to Land Permitting Unit (the entire group)

LOCATION: Sacramento Office:

TITLE: Three Water Resource Control Engineers and an Engineering Geologist

SUPERVISOR: Scott Armstrong

Lani, Lixin, Dina, and Maxine comprise the Waste Discharge to Land Permitting Unit here in the Rancho Cordova office. All four of them take their workload very seriously and strive to provide timely customer service while also assuring that their work product is fair, reasonable, and protective of water quality.

Along with developing individual Waste Discharge Requirements for Board adoption, these permit writers routinely prepare numerous Notices of Applicability to General Orders for Small Domestic Wastewater Treatment Systems, Recycled Water Use, Low Threat Discharges, Biosolids; and Waivers for wineries and small food processors. In the first days of shifting to working remotely, Lani, Lixin, Dina, and Maxine quickly found creative solutions to maintain their high level of productivity toward meeting the Unit's program goals while working remotely. This involved quickly embracing new ways to effectively use shared folders for data management and permit applications, which resulted in improved efficiency during the document review and publication process.

During this time, the permitting unit has issued over 100 notice letters to Dischargers, numerous document review letters, 30-plus Waiver and General Order enrollments, and prepared three individual WDRs that were adopted between the April and June Board meetings. These numbers would be impressive during normal working conditions but are exceptional given the unusual circumstances of teleworking full time. Additionally, because this Permitting Unit produces a high number of General Order enrollments and adopted Orders that end up on the Water Board website, staff's proficiency at meeting document accessibility requirements has also helped reduce the burden on Administrative staff during the last month.

The WDR Permitting Unit is not one to step back from a challenge and consistently demonstrates a high degree of proficiency and reliability in their work while maintaining a friendly and professional disposition. Lani, Lixin, Dina, and Maxine have each earned a reputation of being solid problem-solvers for reliably completing every project thoroughly, making their contributions to the Waste Discharge to Land Program and Region 5 greatly appreciated. For these reasons and many others, Lani, Lixin, Dina, and Maxine are worthy to receive 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; 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
(16 APRIL 2020 THROUGH 30 JUNE 2020)**

Action Date	Agency	County	Notes
4/20/20	Alturas City	Modoc	Administrative Civil Liability (ACL) Order 2020-0512 issued in the amount of \$12,000 addresses mandatory minimum penalty (MMP) effluent limitation violations that occurred between 31 May 2015 and 31 December 2015. The full amount of the ACL has been suspended because the Discharger completed a Compliance Project (CP). The CP addressed inflow and infiltration problems in the collection system which affected the Facility's performance.
4/20/20	Anderson WPCP	Shasta	ACL R5-2020-0508 in the amount of \$15,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
4/22/20	Paradise ID	Butte	Settlement Agreement and Stipulation for Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2020-0511 in the amount of \$12,000 addresses MMP effluent limitation violations that occurred between 5 December 2016 and 30 June 2019. The penalty amount has been satisfied through the completion of the Compliance Project.
5/21/20	Lewis Land Developers LLC	Placer	ACLO R5-2020-0500 issued in the amount of \$183,360. The ACLO alleges that the Discharger failed to implement BMPs during the winter of 2018-2019. The Order suspends \$30,000 of the penalty amount pending completion of a Supplemental Environmental Project (SEP) pursuant to California Water Code section 13385(l).

Action Date	Agency	County	Notes
5/22/20	City of Colusa WWTP	Colusa	EPL R5-2020-0522 issued in the amount of \$21,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2015 and 31 December 2019.
5/22/20	City of Manteca WW Quality Control Facility	San Joaquin	EPL R5-2020-0525 issued in the amount of \$12,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 July 2019 and 31 January 2020.
5/22/20	Deer Creek WWTP	El Dorado	EPL R5-2020-0513 issued in the amount of \$12,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 April 2014 and 31 December 2019.
5/22/20	Galt WWTP & Reclamation Facility	Sacramento	EPL R5-2020-0521 issued in the amount of \$3,000 which represents the sum of MMPs for a serious effluent violation which occurred between 1 September 2016 and 31 December 2019.
5/22/20	Grass Valley City WWTP	Nevada	EPL R5-2020-0530 issued in the amount of \$3,000 which represents the sum of MMPs for a serious effluent violation which occurred between 1 January 2019 and 31 December 2019.
5/22/20	Pleasant Grove WWTP	Placer	EPL R5-2020-0527 issued in the amount of \$9,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 August 2019 and 31 January 2020.
5/22/20	Yuba City WWTF	Sutter	EPL R5-2020-0514 issued in the amount of \$12,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 August 2019 and 1 December 2019.
5/26/20	North Valley Regional Recycled Water Program	Stanislaus	EPL R5-2020-0523 issued in the amount of \$18,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 April 2016 and 31 January 2020.
6/3/20	Golden Feather MHP WTP	Butte	13267 Order issued in order to obtain additional information regarding the Discharger's regionalization efforts. On 6 December 2019, the Discharger indicated that funding mechanisms were unavailable to support regionalization of wastewater treatment and disposal through connection to the Thermalito Water and Sewer District (TWSD).

Action Date	Agency	County	Notes
6/4/20	Lockwood III Dairy	Stanislaus	Cease and Desist (CDO) R5-2020-0030 issued to the Discharger due to failure to comply with the Reissued General Order R5-2013-0122 for existing Milk Cow Dairies. The CDO requires the Discharger to submit a Nutrient Management Plan and quarterly progress reports to ensure the Discharger is complying with the General Order.
6/4/20	Silva Brothers Dairy	San Joaquin	Cease and Desist (CDO) R5-2020-0029 issued to the Discharger due to failure to comply with the Reissued General Order R5-2013-0122 for existing Milk Cow Dairies. The CDO requires the Discharger to submit a Mechanical Manure Separator Completion Report, Waste Management Plan, Pond Cleanout Plan, Pond Sizing and Freeboard Marker Report, Updated Implementing of Operations and Maintenance Plan Report, and quarterly progress reports to ensure the Discharger is complying with the General Order.
6/9/20	Corning City	Tehama	ACL R5-2020-0509 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.
6/16/20	Aerojet General Corporation	Sacramento	EPL R5-2020-0533 issued in the amount of \$9,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 December 2017 and 31 December 2019.
6/16/20	Nevada CSD No 1	Nevada	EPL R5-2020-0534 issued in the amount of \$9,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 December 2017 and 31 January 2020.
6/23/20	Xin Guo Property	Shasta	13267 Order and Notice of Violation (NOV) was issued because of unauthorized discharge to waste and threat of discharge to waste to water of the State from a cannabis cultivation site.
6/25/20	Tracy City	San Joaquin	EPL R5-2020-0526 issued in the amount of \$9,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 April 2018 and 31 December 2019.

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 16 April 2020 through 30 June 2020. From a statewide perspective, Region 5 is responsible for 36% of the enforcement actions tracked in CIWQS during this period including 12% of all 13267 Orders, 21% of all ACLs, and 58% of all NOV's.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS
(16 APRIL 2020 THROUGH 30 JUNE 2020)**

Region	13267	NNC	ACL	CAO	CDO	EPL	NOV	NTC	SEL	TSO	VER	Total
1	0	2	0	0	0	0	4	0	0	1	0	7
2	0	0	2	0	0	0	1	0	0	0	0	3
3	11	1	3	1	0	0	11	0	3	0	1	31
4	0	0	7	0	0	14	58	0	0	0	3	82
5F	0	0	0	0	0	0	20	0	1	0	1	22
5R	2	0	4	0	0	0	10	0	0	0	1	17
5S	0	0	1	0	2	12	83	0	10	0	1	109
R5 Totals	2	0	5	0	2	12	113	0	11	0	3	148
6T	0	0	0	0	0	0	0	1	3	0	0	4
6V	0	1	1	2	0	0	0	0	8	0	1	13
7	0	0	2	0	0	0	1	0	0	0	0	3
8	0	32	0	0	0	0	3	0	56	0	16	107
9	4	0	4	0	0	0	4	0	1	0	4	17
Totals	17	36	24	3	2	26	195	1	82	1	28	415

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
- CDO – Cease and Desist Action
- EPL - Expedited Payment Letter
- ACL - Administrative Civil Liability
- NTC - Notice to Comply

STATEWIDE ENFORCEMENT ACTIONS BY REGION

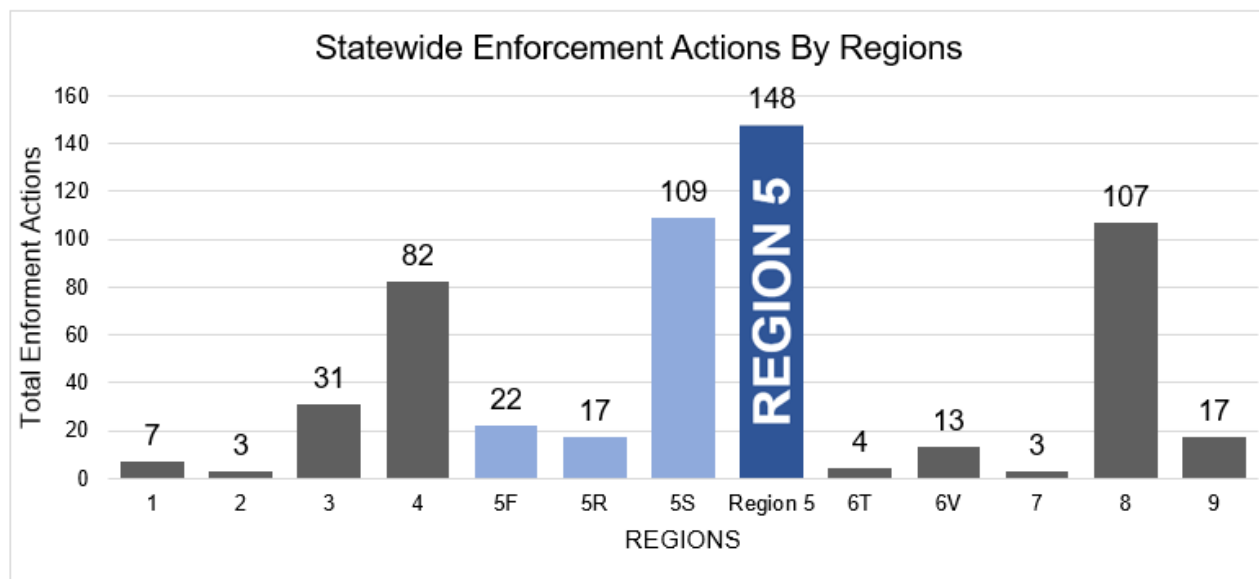


Figure 1: Enforcement Actions: Statewide Enforcement Actions (Reported in CIWQS)

In addition to the above, the following enforcement actions were recorded in GeoTracker and not in CIWQS:

**Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker
(16 APRIL 2020 THROUGH 30 JUNE 2020)**

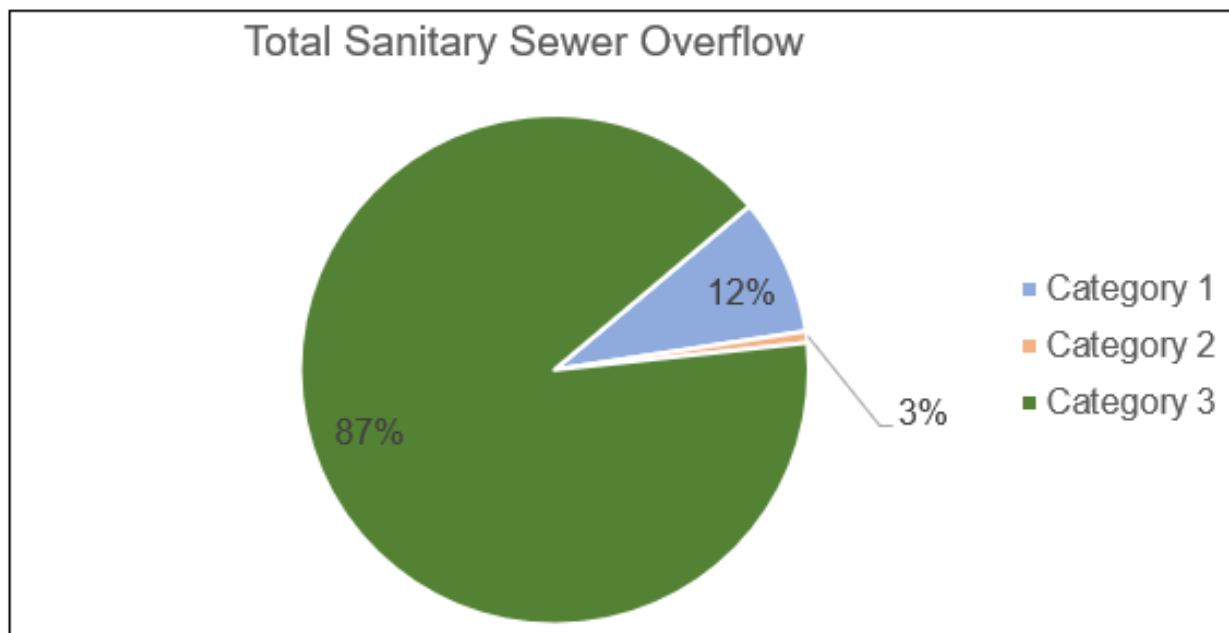
Region	13267 Order	Settlement Agreement	CAO	Letter-Notice	NOV	Verbal Communication	Total
5F	0	0	0	0	12	0	12
5R	1	0	0	2	6	0	9
5S	1	1	1		28	3	35
Total	2	1	1	2	46	3	56

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 16 April 2020 through 30 June 2020, there were no enforcement actions issued by the ILRP.

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 16 April 2020 through 30 June 2020, there were no reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

SSO SUMMARY DATA



**Figure 2: Total Sanitary Sewer Overflow
(16 April 2020 through 30 June 2020)**

For the reporting period between 16 April 2020 through 30 June 2020, there were 138 total SSO spills: 12 Category 1, 1 Category 2, and 125 Category 3 spills.

ADDITIONAL INFORMATION ON SSOs

Additional information regarding SSOs, including the current Monitoring and Reporting Program (MRP), can be found at the [State Water Board's Sanitary Overflow Reduction Program](https://www.waterboards.ca.gov/water_issues/programs/sso/index.html) (https://www.waterboards.ca.gov/water_issues/programs/sso/index.html).

Sewage collection agencies report SSOs 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 16 April 2020 through 30 June 2020, Central Valley Water Board staff received a total of **55 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, 52 (94%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for 3 complaints remain ongoing.

ADMINISTRATIVE CIVIL LIABILITY

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

COMPLIANCE PROJECT (CP)

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

SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

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

ENHANCED COMPLIANCE ACTION (ECA)

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

For the fiscal year period between 1 July 2019 through 30 June 2020, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$5,011,642 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$363,000 was allocated for CPs and \$222,000 was allocated for SEPs (see Figure 3 below).

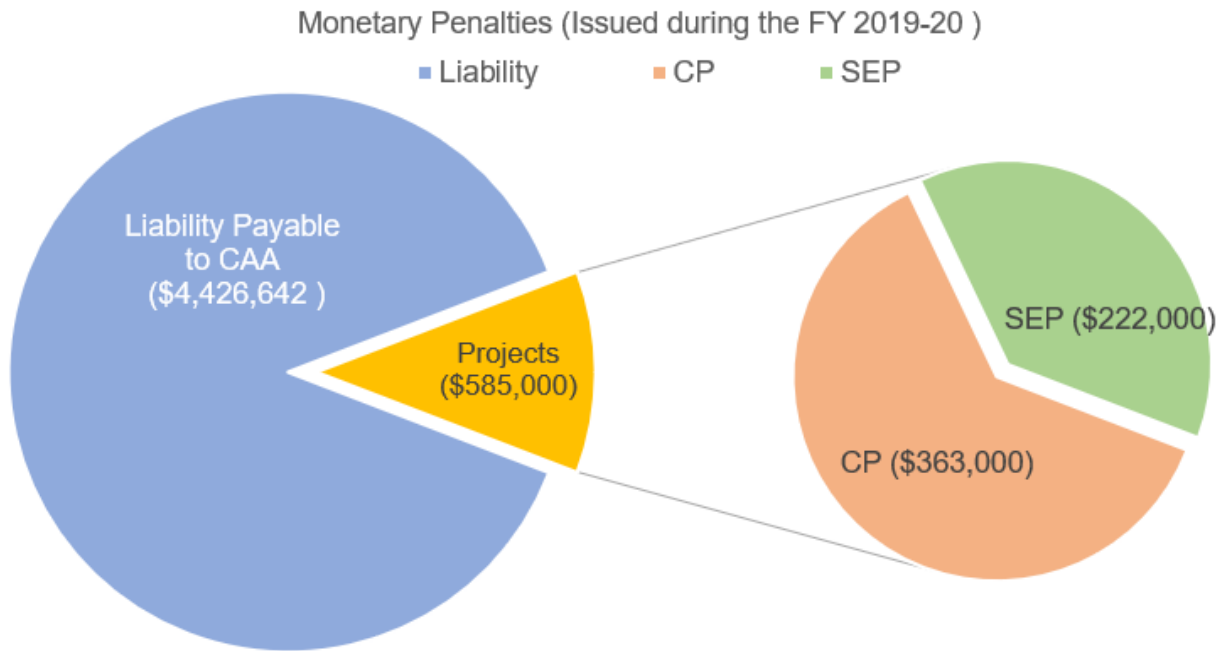


Figure 3: Sum of Total Monetary Penalties issued during FY 2019-2020.

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 2019 THROUGH 30 JUNE 2020)**

NPDES Wastewater – Table 5a.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Individual Facilities Inspected	29	23	79%	NA	23
Minor Individual Facilities Inspected	9	7	78%	NA	7
Minor General Enrollees Facilities Inspected	0	4	--	NA	4

Waste Discharge to Land – Wastewater – Table 5b.

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	171	134%	NA	203

Land Disposal – Table 5c.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	75	103%	NA	203
All Other Inspections	23	38	196%	NA	45

NPDES Storm Water – Table 5d.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	304	132%	NA	403
Stormwater Industrial Inspections	195	203	116%	NA	210
Stormwater Municipal Inspections	0	19	NA	NA	26

Other Programs – Table 5e.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	166	187	122%	NA	202
Confined Animal Facility Inspections	275	289	122%	NA	336

ENFORCEMENT TABLES 6A-6D - REGION 5 CLEANUP ACTION SUMMARY FROM SUMMARY(1 JULY 2019 THROUGH 30 JUNE 2020)

NPDES Wastewater – Table 6. Cleanup

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	6	6	100%	NA	NA
New SCP Sites into Active Remediation	50	22	44%	NA	NA
Cleanup Program Sites Closed	60	44	73%	NA	NA
New UST Sites into Active Remediation	25	17	68%	NA	NA

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
Underground Storage Tank Sites Closed	68	60	88%	NA	NA

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

The Delta Mercury Control Program (DMCP) and associated Methylmercury Total Maximum Daily Loads (TMDLs) 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 reviewed in the [Delta Mercury Control Program Phase 1 Methylmercury Control Studies Independent Scientific Review](#):

(<https://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 second Review Panel will review the open water modeling and tidal wetlands control study reports in Summer 2020 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. Additionally, Board staff received notification that the open water modeling control study will be delayed partially due to COVID-19 staff leave. Lauren Smitherman and Jennifer Fuller met with the Delta Science Program on 4 May 2020 to discuss the status of the second Review Panel given this delay and other potential COVID-related delays.

A one-day meeting for methylmercury control study participants summarizing control study findings to-date and related impacts to the DMCP is being planned for September 2020. Dischargers from the control studies will assist in planning and coordinating the meeting. Due to COVID-19 precautions, this workshop is currently planned to be hosted remotely by Board staff.

Board staff initiated the CEQA process by mailing AB 52 letters to applicable tribes on the Native American Heritage Commission List in December 2019. No consultation requests were received during the consultation period. Board staff anticipate continuing the CEQA process by planning and hosting CEQA scoping meetings in early Fall 2020.

On 30 April 2020, Jennifer Fuller and Lauren Smitherman attended a monthly multi-agency coordination meeting for the Yolo Bypass Salmonid Habitat Restoration and Fish Passage – Big Notch Project. Jennifer Fuller, Lauren Smitherman, and 401 Certification Program staff continued their involvement addressing mitigation measures needed during a meeting with the Department of Water Resources (DWR) on 19 June 2020. Board Staff provided examples of mitigation strategies and DWR agreed to meet internally to discuss these potential mitigation actions before submitting their 401 Certification. Board Staff will continue to meet and coordinate with DWR.

DELTA MERCURY EXPOSURE REDUCTION PROGRAM

The Delta Mercury Exposure Reduction Program (MERP) is a collaborative effort of the Central Valley Water Board, the California Department of Water Resources (DWR), the Delta Conservancy, and the Office of Environmental Health Hazard Assessment (OEHHA) in order to protect public health by reducing exposure to methylmercury in fish caught in the Sacramento – San Joaquin Delta. The contract allocating Cleanup and Abatement funding to MERP ended in June 2020. Though additional funding has not been identified to continue program implementation, DWR committed to continue providing an annual printing and graphic services budget for MERP materials. Board staff will continue to provide online and printed MERP informational materials to community organizations, Tribes, and entities that serve communities at risk for high mercury exposure by eating fish from the Delta. Additionally, Board staff will continue to meet annually to coordinate with MERP partners on any new information relevant to mercury exposure reduction. The final report for the contract allocating Cleanup and Abatement funding to MERP ended in June 2020. The final report on sign posting effectiveness of the fish consumption advisory signs survey has been completed.

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 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. At the 25 June 2020 SC meeting, the SC voted to expand the role of CCP to include interim program management until the governance structure has been determined and implemented for the RMP. Board staff have met with State Water Board and the Office of Chief Counsel (OCC) to discuss the governance options and determine if any were not feasible. The RMP members of the regulated entities are having similar discussions.

The Aquatic Science Center remains involved in the technical and financial management of the RMP, but the governance and overall management of the program has transitioned to CCP. Board staff have attended RMP technical subcommittees, 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 25 June 2020 to discuss program planning and the workplan for FY20/21. Due to the transition of the program, impacts from COVID-19, and new CCP staff, the SC approved a 90-day workplan for FY20/21. There will be a separate workplan developed for the remaining quarters of FY20/21 once all impacts have been identified and program priorities have been identified for FY20/21.

On 10 June and 15 July 2020, the Delta RMP Technical Advisory Committee (TAC) met to discuss contingency planning for projected monitoring delays due to COVID-19, program priorities for FY20/21 and to review technical reports, quality assurance plan revisions, and monitoring proposals.

On 10 July 2020, the Nutrients Subcommittee met to discuss FY20/21 workplan studies and a Supplemental Environmental Project (SEP), both focused on monitoring harmful algal blooms and cyanotoxins.

On 22 June and 21 July 2020, the Contaminants of Emerging Concern Subcommittee met to discuss implementation of the SEP project and finalizing the Quality Assurance Plan.

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 Dept. Fish and Wildlife Ecosystem Restoration Program to monitor HABs and cyanotoxins in water and benthic organisms (clams, crayfish, and smaller sediment-dwelling animals) at ten locations in the Delta for two years. Sampling is expected to begin in Fall 2020.
- State Water Board completed execution of a grant agreement for a nutrient assessment and pilot test of cyanobacteria mitigation method in Discovery Bay. Board staff are providing support for the cyanobacteria experiments to test the mitigation method which are planned for August 2020.
- Board staff have begun preparation of mass load estimates of phosphorous and nitrogen in the Delta. The load estimates will encompass the most recent eight

years and utilize data collected by several 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 is continuing. This ongoing work by the SFEI modeling team has been funded by the State Water Board, Delta Regional Monitoring Program, and the Delta Science Program.

SAN JOAQUIN RIVER DISSOLVED OXYGEN TMDL IMPLEMENTATION

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the Stockton Deepwater Ship Channel/San Joaquin River (SDWSC/SJR) Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. From 5 May through 8 July 2020 there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary.

On 14 August 2019, at the direction of the Board, the Executive Officer sent letters to three additional parties (Stockton East Water District, Friant Water Authority, and South Valley Water Association) requesting a plan to mitigate potential impacts on net oxygen demand in the DWSC, which could include participation in the voluntary funding agreement for the aeration facility. Board staff continued to correspond with these parties.

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_project/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 and Board staff are reviewing these plans. Board staff are also continuing to work with wastewater, storm water and agricultural dischargers under the program to ensure success in meeting the Pyrethroid Control Program's baseline monitoring requirements.

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 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. The TBUs working group was established so that representatives from the nine Regional Water Boards could communicate and collaborate on TBUs and develop a process to add TBUs to the respective Basin Plans. During the May 2020 meeting, staff from the Office of Public Participation discussed plans to assist the Regions with outreach efforts and materials to engage with California Native American Tribes. Additionally, staff from the State Water Board's Office of Chief Counsel presented on the protocols and legal requirements associated with developing a Basin Plan Amendment to designate waterbodies for TBUs. Board staff have begun developing a process for designation of TBUs in the Central Valley.

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 Central Valley Water Board staff met with MRCD representatives to discuss the Pit River reassessment project and tour the upper Pit River watershed. The following day 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 will 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 at:

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

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 at:

(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). [Details on the targeted revisions](#) can be found in the State Board Resolution, which will be posted upon certification at:

(https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/res19.html).

The amendments were submitted to OAL on 3 December 2019 and approved 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.

Postcards notifying impacted permittees of the new regulations were mailed out in January 2020. 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 August 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. Central Valley Water Board staff are continuing to work with State Board staff to address questions and concerns that were raised during the 10 July hearing and is developing an updated project Work Plan for the fiscal year 2020/21.

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

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

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

MAA meetings with Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District 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 15 June 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 2020/2021 Work Plan by 23 June 2020. The due date for written public comments is 24 July 2020. [USBR's](#) documents are available at: (<https://www.usbr.gov/mp/ptms/>)

SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)

LOWER AMERICAN RIVER BENEFICIAL USE ASSESSMENT

The Lower American River has been listed as impaired due to 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 Escherichia coli (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 Deoxyribonucleic acid (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/).

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 2019/2020 (1 July 2019 and 30 June 2020) 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
Glenn Springs Holdings, Inc. and Miller Springs Remediation Management Inc. (Amended Notice of Applicability (NOA))	R5-2016-0076-010
Combie Reservoir Sediment and Mercury Removal Project (Amended NOA)	R5-2016-0076-019
McLaughlin Mine Treatment System	R5-2016-0076-031
Sacramento Deep Water Ship Channel (Amended NOA)	R5-2016-0076-036
Kinder Morgan, Fox Road Petroleum Release Site Groundwater Remediation Project (Amended NOA)	R5-2016-0076-039
SFPP, L.P., an indirect subsidiary of Kinder Morgan, Inc., A Street Remediation Project	R5-2016-0076-041
Shasta County New Redding Courthouse Project	R5-2016-0076-052
Blue Oak Terrace Mutual Water Company Well #2 Project	R5-2016-0076-056
Westlake Community Construction Dewatering Project	R5-2016-0076-057
Sacramento County Water Agency, Northgate 880 and Metro Air Park Drinking Water Systems Maintenance	R5-2016-0076-058
McClellan AFB Groundwater Treatment System	R5-2016-0076-059
Telegraph, LLC and U.S. Forest Service, Tahoe National Forest, Telegraph Mine	R5-2016-0076-060
High Sierra Exploration, LLC and U.S. Forest Service, Tahoe National Forest, Klondike and Dutch Tunnel Mines	R5-2016-0076-061

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

Facility	County	General Order Permit Number
El Dorado Irrigation District, Deer Creek Wastewater Treatment Plant	El Dorado	R5-2017-0085-006
City of Placerville, Hangtown Creek Water Reclamation Facility	El Dorado	R5-2017-0085-007
Nevada County Sanitation District No. 1, Lake of the Pines Wastewater Treatment Plant	Nevada	R5-2017-0085-011

Facility	County	General Order Permit Number
Nevada County Sanitation District No. 1, Lake Wildwood Wastewater Treatment Plant	Nevada	R5-2017-0085-012

DAIRIES/CONFINED ANIMAL FACILITIES

CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program’s FY2019/2020 performance target for facility inspections was 275. Staff completed 303 inspections, exceeding the target by about 10 percent. The current FY 2020/2021 performance target is again 275 inspections; however, because of issues created by COVID-19, meeting the target may be more difficult this year.

ANIMAL MORTALITY COMPOSTING

The California Department of Food and Agriculture (CDFA) is developing a plan for livestock mortality disposal, including the potential composting and land application of composted material if it can be shown to be safe. Current Water Board permits do not allow on-site disposal of mortalities and CalRecycle regulations prohibit composting of mammalian tissue. Ongoing and planned studies by UC Davis, the University of Maine, CSU Chico, the U.S. Department of Agriculture (USDA), and CDFA are intended 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, whose goal is to ensure that any recommended composting practices are documented to be protective of human health and the environment, including water quality.

VIRULENT NEWCASTLE DISEASE

Due to outbreaks of avian influenza and Virulent Newcastle Disease, Staff had temporarily suspended on-site inspections of poultry facilities. The CDFA and USDA recently announced an end to the Virulent Newcastle Disease quarantine restrictions. Staff will resume poultry facility inspections, while still following recommended biosecurity measures.

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. On 25 March 2020, Staff notified Fourstar Resources, LLC in the McDonald Anticline Oil Field that their NOI is incomplete, which includes a memorandum identifying deficiencies and items that need to be included in a revised application.

Pond closure activities for May and June included the following: approval of a work plan addendum for the assessment and cleanup of Chevron's Cymric 1Y surface expression; approval of two California Resources Corporation (CRC) work plans to conduct soil sampling in inactive ponds and in areas where road mix has been applied on the Vedder USL Lease and on the Jones Lease in the Mount Poso Oil Field; approval of a Caleco, LLC work plan to conduct soil sampling in inactive ponds on the Maricopa Lease in the Midway Sunset Oil Field; approval of a Caleco, LLC work plan to conduct soil sampling in inactive ponds on the Fee Lease in the Cymric Oil Field; and, approval of a CRC work plan to collect samples from a waste pile that was generated during closure of ponds on the Layman A Lease in the McDonald Anticline Oil Field.

Other completed tasks included issuing NOVs to Operators with outdated WDRs and who failed to submit Notices of Intent for coverage under a General Order. The NOVs were issued to: Dennis Franks Oil for ponds on its D.C. Lease in the Deer Creek Oil Field; Kern Front-Section 35 Partners for ponds on its Signal Lease in the Kern Front Oil Field; Smilodon Oil Company for ponds on its Hastings Lease in the Deer Creek Oil Field; Hathaway, LLC for ponds on its Fee Lease in the Devils Den Oil Field; and, Binion Exploration and Development for ponds on its Kathy Lease in the Deer Creek Oil Field.

An NOV was issued to Ballard Oil Company for failure to submit an NOI or closure plans for ponds on its Newsom-Windes Lease in the Midway Sunset Oil Field. An NOV was issued to Griffin Resources, LLC for failure to submit monitoring data required by their CAO and MRP.

Miscellaneous tasks included preparation of a letter describing information that would be needed for a closure plan for the San Joaquin Refinery ponds in the Fruitvale Oil Field.

SPILL RESPONSE

Central Valley Water Board staff (Staff) responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Staff were notified of nine events in May and June 2020.

A spill of crude oil and oil field produced wastewater occurred near Well 3551-2 on a facility operated by Aera Energy, LLC (Aera), in the South Belridge Oil Field on 1 May. According to OES, a flow line failure caused the discharge of approximately 40 barrels (bbl(s)) (1,680 gallons (gal(s))) of crude oil and produced wastewater affecting a dry stream bed. Aera staff told Staff that cleanup of the affected areas has been completed. On 16 June, Staff conducted a post-cleanup inspection of the spill site and observed the point of discharge and the areas affected by the spill. Staff observed that the areas affected by the spill appeared to be visually clean. 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 signed-off on the site cleanup on 14 May.

A spill of crude oil occurred on the 11G Facility operated by California Resources Corporation (CRC), in the Elk Hills Oil Field on 6 May. According to OES, a pipe failure caused the discharge of approximately 45 bbls (1,890 gals) of crude oil to land. On

6 May, CRC staff told Staff that the discharged oil has not affected dry stream beds or natural drainage courses. CRC staff added that cleanup of the affected areas was going to be complete by the end of 6 May. On 2 July, staff of CRC told Staff that cleanup of the affected areas was completed.

A spill of crude oil occurred on the AWT 37 Facility operated by Chevron USA, Inc. (Chevron), in the Kern River Oil Field on 8 May. According to OES, a mechanical failure on a stuffing box caused the discharge of approximately 1 bbl of oil (42 gals) of oil into a dry stream bed. On 8 May, Chevron staff told Staff that the discharged oil affected approximately a 30-foot section of the dry stream bed and that cleanup was in progress according to guidance from CDFW-OSPR. On 3 July, staff of the CDFW-OSPR told Staff that CDFW-OSPR conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Fairfield Water Plant operated by Berry Petroleum Company (Berry), in the Midway Sunset Oil Field on 16 May. According to OES, a power outage caused a mechanical malfunction resulting in the discharge of approximately 2 bbls (84 gals) of oil and 100 bbls (4,200 gals) of wastewater to land. The OES report stated that the discharged fluids affected a containment area. On 18 May, Berry staff told Staff that the discharged fluids affected the secondary containment of a tank farm and no stream beds or natural drainage courses were affected by the spill. Berry staff added that cleanup of the affected areas has been completed and staff of the California Geologic Energy Management (CalGEM) inspected the spill site.

A spill of crude oil, produced wastewater, and mud occurred on the Star Fee Facility operated by Sentinel Peak Resources California (Sentinel), in the Cymric Oil Field on 24 May. According to OES, a surface expression discharged approximately 1 bbl (42 gals) of oil and 100 bbls (4,200 gals) of mud to land. The OES report also stated that the discharged materials were contained by man-made berms and that no waterways were affected. Sentinel continued to provide amount updates to OES, and the last update reflected total discharged amounts of approximately 16 bbls (672 gals) of oil, 70 bbls (2,940 gals) wastewater, and 1,614 bbls (67,788 gals) of mud. On 26 May, Sentinel staff told Staff that the cause of the surface expression was under investigation and that staff of CalGEM were onsite. Sentinel staff added that the discharged materials were contained, and no dry stream beds or natural drainage courses were affected.

A spill of oil field produced wastewater occurred on the Hill Lease operated by Berry in the South Belridge Oil Field on 29 May. According to OES, following well stimulation, a leak in a wellhead flange caused the discharge of approximately 14.8 bbls (621.6 gals) produced wastewater that may contain hydrochloric acid and chlorine dioxide. The OES report also stated that a soil containment was built around the leak location to contain

the fluids. On 29 May, Berry staff told Staff that that the discharged fluids were fully contained, and no dry stream beds or natural drainage courses were affected. Berry staff added that the spill did not involve any oil and that cleanup was in-progress. Berry staff also mentioned that staff of CalGEM, CDFW-OSPR, and the Fire Marshal inspected the spill site.

A spill of crude oil and oil field produced wastewater occurred on the 8Z Nemu Lease operated by Chevron in the McKittrick Oil Field on 4 June. According to OES, a flow line leak caused the discharge of approximately 0.26 bbls (10.8 gals) of oil and 0.26 bbls (10.8 gals) of wastewater into a dry stream bed. On 4 June, Chevron staff told Staff that cleanup of the affected stream bed was in progress and that staff of the CDFW-OSPR inspected the spill site. Chevron staff provided Staff with photographs showing the pre-cleanup and post-cleanup conditions of the affected areas. In the post-cleanup photographs, the affected stream bed appears to be visually clean. On 10 June, Chevron staff notified Staff that staff of the CDFW-OSPR has conducted a post-cleanup inspection of the affected stream bed and signed-off on the site cleanup on the same date.

A spill of crude oil occurred on the Section 35 facility operated by Aera in the North Belridge Oil Field on 13 June. According to OES, a flow line leak caused the discharge of approximately 5 bbls (210 gals) of crude oil to land. On 13 June, Aera staff told Staff that the discharged fluids were fully contained, and no dry stream beds or natural drainage courses have been affected by the spill. Staff inspected the spill site on 16 June and observed that the areas affected by the spill appeared to be visually clean.

A spill of crude oil and oil field produced wastewater occurred near Well #405E-06 on the Williams Fee Lease operated by E & B Natural Resources (E&B), in the Antelope Hill Oil Field on 25 June. According to OES, a pipe leak caused the discharge of approximately 2 bbls (84 gals) of crude oil and 2 bbls (84 gals) to land. On 25 June, E&B staff told Staff that the discharged fluids affected flat areas and no dry stream beds, or natural drainages course have been affected by the spill. E&B staff added that cleanup of the affected areas was completed and staff of CalGEM inspected the spill site.

OIL FIELD FOOD SAFETY EXPERT PANEL

In May 2020, with the help of the Science Advisor, Central Valley Water Board staff (Staff) facilitated conference calls for the Food Safety Expert Panel (Panel) in order to finalize Panel recommendations associated with the Food Safety Expert Panel Project. During the conference calls, the Panel came to consensus on several draft recommendations that address future use, monitoring, and regulation of oil field produced water (produced water) being reused to irrigate crops grown for human consumption. The recommendations will be summarized in the White Paper being prepared by Regional Board staff.

Staff continued work with GSI Environmental, Inc., (GSI), the consultants retained to complete studies on produced water as a part of the Food Safety Expert Panel Project

(Tasks 1-3) and to draft the resulting Task reports. As a part of this effort, Staff helped GSI obtain data on surface water and groundwater in the area where produced water is being reused to grow crops. A final report of Task 1 is complete and posted to the Food Safety web page. A draft report on Task 2 is being edited by GSI, as it addresses comments from the Panel, Science Advisor, and Staff. A revised draft report on Task 3 is anticipated to be submitted to Staff by the end of July. The report will then be distributed to the Panel and Science Advisor for review. After the reports for Tasks 1-3 have been reviewed by the Panel, Science Advisor, and Staff, they will be made available to the public. They will also be summarized in the White Paper being prepared by Staff.

Finally, Staff continue to work on a draft of the White Paper that will summarize the work conducted for the Food Safety project. Staff anticipate having a draft ready for the Panel and Science Advisor to review by mid- to late-July and presenting the findings of the White Paper during an item at the October meeting of the Central Valley Water Board.

UIC PROGRAM

During the period from 1 May 2020 to 1 July 2020, 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 met with State Water Board staff and the local Groundwater Sustainability Agencies to discuss the 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 are reviewing the application and are preparing its initial questions to be provided to State Board.

UIC PROJECT REVIEWS

Staff received 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 reviewed the information provided and sent its questions and concerns to CalGEM and the Operator.

Staff received 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 the information provided and sent its initial questions and concerns to CalGEM and the Operator.

Staff received an evaluation regarding groundwater quality for a newly exempted area as part of a waterflood project in the Round Mountain Oil Field. Staff had sent CalGEM a no-objection-with-conditions letter and memorandum regarding its review of baseline groundwater quality data concurring with the commencement of injection activities in limited areas until further evaluation of the remaining areas could be conducted. Staff have reviewed the evaluation provided for those remaining areas and issued a no objection letter regarding injection activities commencing in those areas evaluated.

Staff received project information relating to an Operator's request to add one non-expansion water disposal well to a water disposal project in the Midway-Sunset Oil Field; however, the project application was incomplete, and Staff issued a letter and memorandum detailing the reasons it could not complete a review.

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 are preparing a letter and memorandum 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 are reviewing the additional information provided by CalGEM.

Staff received project information relating to an Operator's request to conduct a waterflood project in the Midway-Sunset Oil Field. Staff reviewed the information provided and sent CalGEM a request for additional information.

Staff received project information relating to an Operator's request to conduct a commercial water disposal project in the Bowerbank Oil Field. Staff reviewed the information provided and sent CalGEM a request for additional information.

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

Staff issued three completeness check and initial review letters and memorandums for UIC projects in the Midway-Sunset Oil Field.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Staff 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 California Resources Corporation's Elk Hills Oil Field and included plans for stimulating 1 well.

CalGEM provided Staff a 7 May 2020 document titled "Chevron, Lost Hills, ADSA Determination and Verification Process" for review. The document was also reviewed by Lawrence Livermore National Laboratory. Staff conveyed its comments on the document to State Water Resources Control Board staff, and then State Water Board staff and Staff met with CalGEM to go over the comments.

Staff also reviewed the following: two California Resources Corporation's (CRC) revised addendums for planned stimulations at Buena Vista Nose; a CRC revised work plan for the drilling of a deep exploratory boring in section 17R, Elk Hills Oil Field; a CRC revised exclusion to conduct well stimulations in section 15R, Elk Hills Oil Field; a Chevron work plan to rehabilitate deep monitoring well TULMW04NWSEa in its Lost Hills Oil Field. Board staff also reviewed Seneca Resources' groundwater monitoring reports and request to discontinue groundwater monitoring in its Lost Hills Oil Field and provided written comments to the State Water Board.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

ILRP QUARTERLY STAKEHOLDER MEETINGS

Central Valley Water Board staff (Staff) holds regular ILRP stakeholder meetings to provide an open forum for communication between Staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The last meeting was held on July 8th and focused on water quality considerations of Managed Aquifer Recharge on Agricultural Lands (Ag-MAR). The meeting included presentations from Philip Bachand, Thomas Harter and Daniel Mountjoy, followed by a panel discussion with the presenters, Charlotte Gallock and Lisa Hunt.

More information, including a recording of the meeting, can be found on the Central Valley Water Board ILRP website at:

(www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.shtml).

EXPERT REVIEW OF 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 East San Joaquin Water Quality Coalition's surface water monitoring framework. Steve Weisberg of 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 Panel plans to reconvene from 24-26 August 2020 via a web-based platform.

Additional panel and meeting information is available on the following website: [Expert Review Panel for the East San Joaquin \(ESJ\) Surface Water Quality Monitoring Program](#)

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

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. Most Staff are currently teleworking from home. Staff have been focused on identifying potential commercial irrigated lands using a GIS based desktop computer application. On-farm inspections have been put on hold. Outreach and directive letters to potential commercial irrigated landowner/operators have been delayed but will resume within the next month as we have identified thousands of potential commercial irrigated operations which may need ILRP enrollment. This process will take more time because of the more complicated coordination needed.

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 are continuing to work with members by providing guidance and answering questions. Within the region, there have 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 May 1 and June 30, 132 samples have been submitted to GeoTracker by 35 members/landowners with about 35.6 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 May through June 2020, Staff sent 9 letters to ESJWQC members/landowners reminding them of the notification requirement. This process has achieved 55 percent compliance so far, and Staff is pursuing progressive enforcement actions to obtain notifications and increase 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 July 2020, there were 223 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 203 signed Drinking Water Notification Templates (91% compliance). From May through June 2020, staff have contacted 29 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.

AGRICULTURAL PARCEL INSPECTIONS – 1 May 2020 through 30 June 2020

Coalition Area	Parcel Inspections 1 May 2020 through 30 June 2020
Buena Vista Coalition	1
Cawelo Water District Coalition	18
Kaweah Basin Water Quality Association	1,276
Kern River Watershed Coalition Authority	352
Kings River Water Quality Coalition	5,033
Tule Basin Water Quality Coalition	1,795
Westlands Water Quality Coalition	289
Westside Water Quality Coalition	59
East San Joaquin Water Quality Coalition	2286
Grasslands Drainage Authority	22
San Joaquin County and Delta Water Quality Coalition	638
Sacramento Valley Water Quality Coalition	2491
Westside San Joaquin River Water Quality Coalition	485
Total	14,745

SACRAMENTO RIVER WATERSHED COALITION GROUPS

CALIFORNIA RICE COMMISSION

On 19 February 2020, the California Rice Commission submitted 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 and Staff is currently finalizing the review.

SACRAMENTO VALLEY WATER QUALITY COALITION

On 11 May, the Executive Officer approved Goose Lake Watershed's Reduced Monitoring / Management Practices Verification Option Proposal (Proposal), which was submitted 16 April.

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 are currently under Staff review.

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 25 June, the Sacramento Valley Water Quality Coalition's 2019 annual reports were approved. These include the Surface Water Monitoring Report, Groundwater Trend Monitoring Report, and the Management Plan Progress Report. These were submitted on 1 May.

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

EAST SAN JOAQUIN WATER QUALITY COALITION

On May 26, the Coalition submitted revisions and updates to the Groundwater Quality Trend Monitoring (GQTM) Phase III Workplan, including the updated well network for 2020 GQTM sampling. This is currently under Staff review.

On 1 June, Staff received the Coalition's Quarterly Monitoring Data Report for the period October 1 through December 31, 2019.

On 1 June, the Coalition submitted the Annual Management Practice Implementation and Nitrogen Application Report. The report is currently under Staff review.

On 18 June, Staff's review of the 2020 Surface Water Annual Monitoring and Management Plan Progress Reports covering the period 1 October 2018 through

30 September 2019, 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 1 May, Staff received the San Joaquin County and Delta Water Quality Coalition's Annual Monitoring Report for the reporting period 1 October 2018 through 30 September 2019 per its Order. The AMR is under Staff review.

On 3 June, the Executive Officer approved the Coalition's 6 March 20 revised Quality Assurance Project Plan (QAPP). The revised QAPP amends field sampling procedures. The amendment applies to Appendix I (Standard Operating Procedures (SOP) for Surface Water and Sediment Sampling and Element 11 (Sampling Methods) of the QAPP.

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

On 20 May, the Water Board sent a review letter for the 2019 Annual Groundwater Quality Trend Monitoring Report.

On 22 June, the Coalition submitted its plan for 2020 Groundwater Trend Monitoring. It is currently under Staff review.

On 29 June, the Coalition submitted the Annual Monitoring Report, which includes monitoring conducted March 2019 through February 2020. It is currently under Staff review.

GRASSLAND DRAINAGE AREA COALITION

The 2019 Annual Monitoring Report for the Grassland Drainage Area was submitted on 28 April 2020. The report discusses the results of the second year of groundwater monitoring in the Grassland Drainage Area. The report was approved on 29 May 2020.

TULARE LAKE BASIN COALITION GROUPS

KAWEAH BASIN WATER QUALITY ASSOCIATION

On 3 July 2020, Staff issued a summary/comments memorandum of the 2018 Water Year Annual Monitoring Report that was prepared by the Kaweah Basin Water Quality Association. Staff concluded that the Annual Monitoring Report met the requirements of the General Order.

KERN RIVER WATERSHED COALITION AUTHORITY

On 19 June 2020 Staff issued a conditional approval of the Kern River Watershed Coalition Authority's Surface Water Quality Management Plan for Chanac Creek

TULE BASIN WATER QUALITY COALITION

On 10 June 2020, Staff met via conference call with representatives of the Tule Basin Water Quality Coalition to discuss QA/QC methodology for toxicity testing conducted under the surface water monitoring program.

On 3 July 2020, Staff issued a summary/comments memorandum of the 2018 Water Year Annual Monitoring Report that was prepared by the Tule Basin Water Quality Coalition. Staff concluded that the Annual Monitoring Report met the requirements of the General Order.

WESTLANDS WATER QUALITY COALITION

On 30 June 2020 the Surface Water Monitoring Plan for the Westlands Water Quality Coalition was approved.

WESTSIDE WATER QUALITY COALITION

On 20 May 2020, Staff held a meeting (via GoToMeeting) with the Westside Water Quality Coalition to discuss the following topics: (1) groundwater quality trend monitoring and the removal and addition of trend monitoring wells to their network; (2) the results of their first surface water sampling event; and (3) an update to the Coalition's Basin Plan Amendment Work Plan and the comments they received from the CV-SALTS Executive Committee.

OTHER PROJECTS

CENTRAL VALLEY GROUNDWATER MONITORING COLLABORATIVE

In a 15 June 2020 letter, the Executive Officer issued an approval of the Central Valley Groundwater Monitoring Collaborative's 18 May 2020 Groundwater Quality Trend Monitoring Work Plan Update. The Work Plan Update adequately addressed the clarifications requested in the Central Valley Water Board's 1 April 2020 letter

GROUNDWATER PROTECTION FORMULA

On 1 July 2020, a proposed Groundwater Protection Formula (GWP Formula) was submitted jointly by 13 agricultural coalitions, per requirements of the General Orders' Management Practice Evaluation Program. The joint coalition group will provide briefings to Central Valley Water Board ILRP staff and the Environmental Justice Community. ILRP staff will release the proposed GWP Formula for a public review and comment period prior to Executive Officer review and approval.

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.

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 May, Water Year 2017, 2018, and 2019 Tule Basin Water Quality Coalition backlogged data sets were submitted to SWAMP for uploading to CEDEN.

In June, Data Management Team staff began formatting and reviewing 22 backlogged EDDs for Kings River Watershed Coalition Authority.

GRASSLAND BYPASS PROJECT

The Grassland Bypass Project 2019 Annual Monitoring Report and Sediment Monitoring Plan for 2020 through 2024 were submitted on 28 April 2020. The submittal discusses the results of surface water monitoring conducted under Order R5-2019-0077 and describes sediment monitoring that will take place over the next five years. The 2019 Annual Monitoring Report and Sediment Monitoring Plan for 2020 through 2024 were approved on 22 May 2020.

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

Surface water monitoring for the Rice Pesticides Program 2020 monitoring season commenced on 28 April 2020. Monitoring for thiobencarb will be conducted for approximately 10 weeks and the results reported on in the 2020 Annual Monitoring Report.

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 be in compliance 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 for failing to meet the extended deadline for the second deliverable under the TSO.

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. Staff continue to work with BLM staff to identify a timeline to submit load allocation information.

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 must be submitted by 31 August 2020. On 24 June 2020, Board staff issued a Notice of Violation to Lake County for failing to meet the 29 May 2020 deliverable.

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 is also coordinating 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 is acting as lead in this effort. The brochure is tentatively scheduled to be available to the public in fall 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_project/clear_lake_nutrients/index.html).

CANNABIS

On July 7, Jason Schroeder presented the Cannabis Program Annual Status Report for FY 19/20 to the Executive Management Group. On July 14, Jason Schroeder conducted the annual Cannabis Program Kickoff meeting via Teams.

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	16	2	0	47
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	16	84	2	0	84	2	1	189
Fresno	4	0	0	0	0	0	0	4
Merced	4	0	0	0	0	0	0	4
Nevada	16	193	3	2	6	0	0	220
Sacramento	129	0	0	0	0	0	0	129
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	4	0	0	0	0	0	0	4
Stanislaus	16	6	0	0	2	0	0	24
Tulare	6	0	0	0	0	0	0	6
Yolo	2	19	0	0	46	0	0	67
Yuba	2	0	0	0	0	0	0	2
Totals	210	330	9	2	156	4	1	712

OUTREACH

Staff have not conducted outreach events since the last Board Meeting due to COVID-19 restrictions.

COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

Staff have not conducted outreach events since the last Board Meeting due to COVID-19 restrictions.

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 May 26, staff performed a compliance inspection in Calaveras County.
- On June 9, staff performed a compliance inspection in Nevada County.

ENFORCEMENT

- On May 2, staff performed an enforcement inspection in Stanislaus County.
- On May 15, staff performed 3 enforcement inspections in El Dorado County.
- On May 21, staff performed an enforcement inspection in Tehama County.
- On May 29, staff performed 2 enforcement inspections in El Dorado County.
- On June 1, staff performed an enforcement inspection in Siskiyou County.
- On June 11, staff performed an enforcement inspection in Amador County.
- On June 11, staff performed an enforcement inspection in Lake County.
- On June 15, staff performed an enforcement inspection in Shasta 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/).

EARLY SUMMER 2020 – CENTRAL VALLEY BLOOMS

Cyanobacteria 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 cyanobacteria blooms for the period from 1 May 2020 to 13 July 2020 is provided in Table 1.

Table 1. Cyanobacteria Bloom Summary: 1 May 2020 to 13 July 2020

Category	Count
Number of Suspected Blooms Investigated since previous EO Report	35
Number of Confirmed Blooms ¹ since previous EO Report	31
Number of Continuing Blooms ¹ from previous EO Report	0
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	17
Number of Human Illnesses Reported since previous EO Report (under investigation)	0
Number of Animal Impacts Reported since previous EO Report (under investigation)	2

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

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

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

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 2/22/2022)

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 under final contracting and is expected to be complete before the upcoming winter period. (Closing 28 February 2021)

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

The Resource Conservation District of Butte County has conducted a road inventory and will prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), they will prepare a CEQA document, implement road upgrades along four miles of Powellton Road within the Butte Creek watershed, and hold two public workshops. Currently, project activities have included holding a mandatory contractor bid meeting, opening of sealed bids, finalizing work on the action plan, GIS site map and site sediment inventory. (Closing 28 February 2021)

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

California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, 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 allowing for extra time to synthesize and quantify data collected over the course of this study. Dr. Joe Wagenbrenner and Drew Coe are completing the sedimentary and runoff analysis related to “Catchment Response Across Burn Severities”. Lab processing of the runoff/sediment samples from the Skid trail BMP test has been completed. Statistical analysis and writing of a draft peer-reviewed manuscript are underway. (Closing 31 March 2021)

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

The Western Shasta Resource Conservation District will prepare a prioritized erosion prevention plan to identify and reduce road-related sediment inputs to the Battle Creek watershed. The grantee has completed road assessments on approximately 23 miles of native surface and rocked road and is currently preparing an Action Plan which will include site specific sediment reduction treatment recommendations for all sites inventoried. The grantee has currently been focused on finalizing the Action Plan. A technical advisory committee (TAC) and subsequent field workshop were in planning stages but canceled due to the COVID-19 emergency. (Closing 31 October 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 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. The grantee is currently preparing to initiate a Notice to Proceed for implementation of the Action Plan. (Closing 28 February 2022)

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy has thinned approximately 243 acres of merchantable timber under a CALFIRE Fire Prevention Pilot Project Exemption in the Greyhorse valley. Thinning operations have met and exceeded grant requirements and currently the grantee is looking at upgrading the road network throughout the project area. (Closing 30 March 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. Currently, State Water Board staff

are finalizing the grant agreement for execution and the City of Chico and Butte County RCD are preparing environmental permit applications. (Closing in 2023)

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

The purpose of the project is to fix select priority significant existing and potential erosion sites (sepes) on the Eldorado National Forest (ENF) that were identified on haul routes associated with timber sales implemented under the King Fire Restoration Project (KFRP). Stream crossing structure replacement, road drainage improvements, road reconditioning, armoring of structures, rebuilding of fill slopes, and landslide removal are among the work expected. Funding will be used to replace multiple large failed and at-risk stream crossing structures with an emphasis on designing crossings to accommodate a 100-year event, plus associated sediment and debris. State water board staff are currently finalizing the grant agreement for execution. (closing in 2023)

ROADSIDE FUEL REDUCTION (\$370,000)

Yuba County, with executed grant funding, has constructed nearly 185 acres of shaded fuel breaks along approximately 30 miles of roadways in the Yuba foothill state recreation area. This project will result in enhanced fire safety, aiding to reduce potential wildfire severity in the area and thereby reducing water quality degradation from wildfires. This grant was expected to close on 30 April 2020, but due to the COVID-19 emergency they were allowed extra time to complete their final report. Since allowing extra time for completion, all final deliverables have been submitted to Central Valley Water Board and subsequently to State Board for final approval. (Grant is Closed)

PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH

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

*On 12 May, Jeff Hannel 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 15 May, Russell Walls participated (via conference call) in the Madera County Environmental Crimes Task Force meeting.

On 15 May, Russell Walls participated (via conference call) in the Kings County Environmental Crimes Task Force meeting.

*On 28 May, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding

environmental complaints lodged by various disadvantaged community groups and members.

*On 9 June, Jeff Hannel 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 10 June, Jeff Hannel and Scott Hatton 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 12 June, Janis Cooke participated in a quarterly meeting of the Bay Nutrient Management Strategy Steering Committee. The group received updates regarding the San Francisco Bay's nutrient, phytoplankton, cyanobacteria, and dissolved oxygen – focused monitoring and modeling programs and discussed contingency planning for program changes related to COVID-19.

*On June 19th, ILRP staff organized a meeting between representatives from Clean Water Action, Community Water Center, American Rivers, California Coastkeeper Alliance, and Leadership Counsel for Justice and Accountability and the agricultural coalitions to discuss the Management Practices Evaluation Program and the use of the Soil and Water Assessment Tool along with the Nonpoint Source Assessment Tool.

*On June 18th, Jennifer LaBay participated in the Clear Lake Blue Ribbon Committee meeting with representatives from the local Native American tribes. Meetings with the Committee are held quarterly to discuss the rehabilitation of Clear Lake in Lake County.

On 22 June, Daniel McClure, Meredith Howard, and Sammantha Mello attended a workshop hosted by the Central Valley Clean Water Association (CVCWA) on potentially developing a collaborative monitoring effort between the municipal waste water and municipal separate storm sewer system (MS4) entities to satisfy the Central Valley Pyrethroids Basin Plan Amendment and TMDL.

*On 25 June, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 29 and 30 June, Selina Cole and Janis Cooke participated in the 2020 California Water Boards' Water Data Science Symposium. The theme of this 5th annual symposium was "Partnering with Communities for Better Water Outcomes".

*On 14 July, Jeff Hannel and Lourin Sutton 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.

GENERAL UPDATES TO THE BOARD

CONSTITUENTS OF EMERGING CONCERN (CECS)

In 2016, Central Valley Water Board staff began working with representatives from the Central Valley Clean Water Association (representing publicly-owned treatment works or POTWs) and Central Valley Municipal Separate Storm Sewer System agencies (MS4) to develop a work plan in response to State Water Board's Constituents of Emerging Concern (CECs) Statewide Pilot Study Monitoring Plan. The POTW/MS4 group have developed the Central Valley Pilot Study for Monitoring Constituents of Emerging Concern (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 (DRMP) in July 2018.

In the beginning of fiscal year (FY) 20/21, the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP) for the Work Plan were submitted to the Technical Advisory Committee (TAC) of the DRMP for comment. ASC is working to incorporate the comments received before they are submitted for review and signature by State Board Quality Assurance Officer and DRMP Steering Committee Co-Chairs. The QAPP and SAP are projected to be approved in August, and sampling is planned to start once they are approved. Additional details on how or if the shift in the sampling schedule impacts the goals of the Work Plan are continuing to be assessed.

E&J GALLO WINERY, FRESNO COUNTY

On 7 May 2020, Central Valley Water Board staff (Staff) and E&J Gallo Winery (Gallo) Staff/representatives had a conference call to discuss the need for vadose zone monitoring at the site. Gallo contends that vadose zone monitoring will not provide information that it can use to make management decisions regarding the site. Staff explained that the WDRs require vadose zone monitoring for land application areas (LAAs) that receive a BOD loading of greater than 150 pounds per acre per day, but that it would look further into the issue and get back to Gallo.

On 14 May 2020 Gallo submitted the Offsite Data results – 2020 Update report. In an email dated 27 May 2020, Staff informed Gallo that its response regarding vadose monitoring that was requested by Staff and due 30 June 2020 could be delayed because Staff was in the process of reviewing groundwater data for the site and how it relates to the WDR requirement for vadose zone monitoring. Staff further indicated that it does not intend to pursue enforcement of the 30 June 2020 due date as long as the delay is due Staff actions.

On 25 June 2020, Staff and Gallo Staff/representatives had a conference call to further discuss vadose zone monitoring. Gallo indicated it has been reporting LAA loading rates in a more detailed manner (area wise) than the WDRs require. Gallo plans to propose a revised methodology for reporting BOD loading rates. Staff indicated that was acceptable and it would evaluate the proposal for compliance with the WDRs once it is submitted.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – MAY 01, 2020 – JUNE 30, 2020

PROMOTIONS:

Jennifer Fuller - SR ES (SPEC)

LEAVE OF ABSENCE:

Danielle Goode - SR WRCE

Amy Ha - WRCE

RETIREMENTS:

Kiran Lanfranchi-Rizzardi - AA II

John Moody - WRCE

SUMMARY OF POSITIONS:

Total Authorized Positions: 275.7

Total Vacant Positions: 25.5

Sacramento

Authorized Positions: 148

Vacancies: 10.5

Fresno

Authorized Positions: 76

Vacancies: 8

Redding

Authorized Positions: 51.7

Vacancies: 7

Separations:

Nathan Casebeer - EG

William Chen - WRCE

Christine Joab – ES

Abby Mehl - SC

New Hires:

John Baum - CEA B

Lourin Hubbard - SSM I

TRAINING UPDATES - MAY 1, 2020 – JUNE 30, 2020

Class Title	Number of Attendees
16-Hour HAZWOPPER Upgrade Training	7
Admin 108	1
Advanced Negotiation and Facilitating Collaborative Processes	5
AED/CPR: American Heart Association Heartsaver AED Training	8
American Heart Association First Aid Training	7
Art & Science of Motivation & Morale	8
Building and Managing Better Teams	13
Building High Performance Teams	7
Building Our Skills Together	1
CA Contact Tracing	1
California Water Data Science Symposium	1
California Water Quality Law 101	3
Coaching and Mentoring	1
Communicating Effectively	1
Creating ADA Accessible Documents	21
Customer Service Training	1
Editing	2
Electronic Writing	3
Emotional Intelligence	14
Ergonomics: The Homemade Home Office	15
Fluvial Geomorphology	15
From Managing Self to Managing Others	3
Highly Effective Professional Writing	6
Injury and Illness Prevention/Hazardous Communication Training - IIPP Training	13
Interpersonal Communication Skills	8
Introduction to Hydraulic and Hydrologic Modeling	5
Introduction to Project Management	2
Introduction to Watershed Assessments	2
Leadership for the Government Manager	1
Mastering Grammar	4
Microsoft SharePoint New User Training	10
PFAS Transport, Fate & Remediation in Soil & Groundwater	28
Presentation Skills	1
Project Management	2

Class Title	Number of Attendees
Remote Facilitation Training Series	3
Remote Facilitation Training Series 2	5
Remote Supervision	12
Sedimentation and Erosion	3
Spring 2020 Facilitation Courses	1
Stakeholder Engagement	5
Statistics Refresher	7
Strategic Leadership	2
Supervisor's Health and Safety	7
TECH014-Petroleum Hydrocarbon Remediation Principles	3
Time Management	7
Transition During Difficult Circumstances	3
Tribal Coordinators Training	1
Trust and Legitimacy: Understanding implicit basis, supporting workplace	12
UPRR Hazardous Materials Railroad 101 Webinar	1
Using the Statewide Chemistry Lab Contract	1
Verbal Judo	6
Water Boards 101: Training Services	5

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
16-074-150, Am. 4	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	06/30/2020	\$443,511
17-022-150	Department of Water Resources	Ongoing operation and maintenance – SWAMP.	07/01/2017	06/30/2020	\$180,000
17-054-150	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP).	01/09/2018	06/30/2020	\$154,191
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 response under current and future scenarios.	07/01/2018	03/31/2021	\$400,000
18-071-150	Basic Laboratory, Inc.	Emergency lab services, Carr Fire	07/26/2018	06/30/2020	\$110,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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

FUTURE BOARD ACTIVITIES

OCTOBER 2020 BOARD MEETING

NPDES PROGRAM – PERMITS

- City of Turlock Regional WQCF, Renewal
- City of Manteca WQCF, Renewal
- UC Davis Main WWTP, Renewal
- Bear Valley CSD WWTF, Renewal
- Thunder Valley WWTP, Rescission
- City of Biggs WWTP, Rescission
- Stallion Springs Community Services District WWTF, Rescission
- Collins Pine Co. Chester Sawmill, CDO Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Mokelumne Rim Vineyards, Revised WDRs
- Horizon Nut
- Aerojet WRND/AWCU, New WDRs
- Geer Road, Amended WDRs
- Tasteful Selections, New WDRs
- Grimmway Shafter Facility, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- ILRP Upper Watershed Update, Resolution or Info Item

STORM WATER AND WATER QUALITY CERTIFICATION PROGRAM

- Placer County Conservation Plan – Regional General Programmatic Permit and ILF Authorization Permits

DECEMBER 2020 BOARD MEETING

NPDES PROGRAM – PERMITS

- Sequoia/Kings Canyon National Parks Rotenone Application, New Permit
- Rio Vista Northwest WWTF, Renewal
- Sacramento Regional WWTP Renewal

- Bell Carter Industrial WWTP, Renewal
- Donner Summit Public Utility District WWTP, Renewal
- Sixteen-to-One Mine, Renewal
- Mariposa Public Utility District WWTF, Rescission
- Thunder Valley Casino WWTP, Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Westwood Landfill, WDRs
- Palo Cedro WWTF, Revised WDRs
- Redding Power Plant, Revised WDRs
- City of Modesto WWTF, Revised WDRs
- Fink Road Landfill
- SPI Martell
- Los Banos WWTF, Revised WDRs
- Fresno County Service Area 31B, Revised WDRs
- Glen Springs Holding Company, Former Occidental Chemical Company Groundwater Remediation Project, Lathrop Facility, Revision

IRRIGATED LANDS REGULATORY PROGRAM

- Goose Lake Alternative Framework – Resolution or Info Item

FEBRUARY 2021 BOARD MEETING

NPDES PROGRAM – PERMITTING

- Sierra Pacific Industries, Quincy Division, Renewal
- Chester PUD Sewage Treatment Plant, Renewal
- Lincoln Center GWTS Renewal
- City of Shasta Lake WWTF, Renewal
- Nevada CSD No. 1 Cascade Shores WWTP, Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- American Raisin Packers & Pajoobian Farms, Revised WDRs
- Jamestown WWTF, Revised WDRs
- California Concentrates, New WDRs

- Bogle Delta Winery, Revised WDRs
- Rio Pluma Prune Processor, Revised WDRs

STORM WATER AND WATER QUALITY CERTIFICATION PROGRAM

- Dredging General Order (tent)

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

NPDES PERMITS

- Mountain House CSD WWTP, Amendment
- Olivehurst Public Utility District WWTP, Renewal
- Live Oak City WWTP, Renewal
- Santa Fe Aggregates Sand and Gravel Plant, 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
- City of Kettleman WWTF, Revised WDRs
- Mule Creek State Prison, Amended WDRs
- Grimmway Enterprises, Inc., Revised WDRs
- Rawson Road Septage Facility, Revised WDRs
- Salad Cosmo, New WDRs
- Wonderful Pistachios Lost Hills, Revised WDRs

ATTACHMENT A
ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 16 April 2020 through 30 June 2020

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	61	44%
Debris-General	25	18%
Grease Deposition (FOG)	12	9%
Pipe Structural Problem/Failure	6	4%
Debris-Wipes/Non-Dispersables	5	4%
Operator error	5	4%
Other (specify below)	5	4%
Debris-Rags	4	3%
Damage by others not related to CS Construction/Maintenance	3	2%
Vandalism	3	2%
Pump Station Failure-Power	2	1%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	1%
Construction Diversion Failure	1	1%
CS Maintenance Caused Spill/Damage	1	1%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	1	1%
Debris from Construction	1	1%
Debris from Lateral	1	1%
Pump Station Failure-Mechanical	1	1%
Root Intrusion	138	100%
Total	61	44%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 16 April 2020 through 30 June 2020

Office	Category 1	Category 2	Category 3	Total
5F	0	0	10	10
5R	0	0	4	4
5S	12	1	114	127
Total	12	1	125	138

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) – 16 April 2020 through 30 June 2020

Region	Agency	Collection System	SSO Event ID	County	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	Spill Date	Cause of Spill
5S	Modesto City	Modesto CS	867573	Stanislaus	Yes	166,667	8,333	6/21/2020	Construction Diversion Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	866408	Sacramento	Yes	10,572	6,598	4/25/2020	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	867133	San Joaquin	Yes	3,230	3,230	6/1/2020	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	867238	Sacramento	Yes	2,356	2,120	5/22/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	866953	Sacramento	Yes	2,092	1,966	5/11/2020	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	866254	Sacramento	Yes	1,200	1,157	4/17/2020	Root Intrusion
5S	Sacramento Regional CSD	Sacramento Regional CS	866696	Sacramento	Yes	850	50	5/7/2020	Other (specify below)

ATTACHMENT A

Region	Agency	Collection System	SSO Event ID	County	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	Spill Date	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	867380	Sacramento	Yes	697	554	6/5/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	867054	Sacramento	Yes	677	639	5/21/2020	Debris-General
5S	Placerville City	Hangtown Creek CS	866284	El Dorado	Yes	675	350	4/21/2020	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	867209	Sacramento	Yes	255	251	6/1/2020	Root Intrusion
5S	Placer County Dept of Facility Services	SMD No. 1 CS	866923	Placer	Yes	10	10	5/20/2020	Pipe Structural Problem/Failure