

California Regional Water Quality Control Board
Central Valley Region
Patrick Pulupa, Executive Officer



EXECUTIVE OFFICER'S REPORT
6/7 June 2019

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SUCCESS STORIES

IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS

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

Sacramento Valley Water Quality Coalition

The Executive Officer approved completion of three management plans for the Sacramento Valley Water Quality Coalition (Coalition):

- Chlorpyrifos in Ulatis Creek (4/2/19)
- DDD in Grand Island Drain (4/3/19)
- DDE in Grand Island Drain (5/3/19)

The implemented management plans successfully eliminated water quality problems caused or influenced by discharge of agricultural pollutants into surface receiving waters. The Coalition held multiple member meetings and conducted targeted outreach to individual growers to provide general and site-specific guidance regarding practices to protect water quality. Examples of new practices implemented by growers include: monitoring wind conditions and avoiding surface water during pesticide applications; adopting efficient irrigation methods; use of shorter irrigation runs to manage flows; lengthen time between pesticide applications and irrigation events; use of use of amendments, deep ripping or aeration; crop rows formed to optimize water use; use of tailwater return systems; and use of vegetated ditches. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

- **Westside San Joaquin River Watershed Coalition**

On 1 March 2019, the Executive Officer approved completion of 26 surface water management plans for the Westside San Joaquin River Watershed Coalition (Coalition), including four for water column toxicity, 19 for pesticides (chlordane, diazinon, DDT, diuron, dimethoate, malathion, methyl parathion), ammonia, and nitrate. Management plan implementation addressed water quality exceedances through member meetings and targeted outreach to individual growers, providing general and site-specific management practice guidance to protect water quality. Examples of new practices implemented by growers include use of tailwater return and sedimentation ponds, polyacrylamide polymer flocculant, and drip irrigation. Water quality analyses showed

that receiving water limits were met, demonstrating the effectiveness of implemented practices.

SITE CLEANUP – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

- **Chevron USA Bulk Fuel Plant (Former), Tehachapi, Kern County**

Soil and groundwater degraded by gasoline and diesel-range petroleum hydrocarbons were found beneath the site during facility closure and subsequent subsurface investigations. A soil vapor extraction system was operated at the site for approximately two years and approximately 55,000 pounds of hydrocarbons were removed by the system. Results of the most recent groundwater monitoring indicate that concentrations of hydrocarbons in groundwater were non-detect or suitably low to meet closure criteria for the low-threat underground storage tank closure policy. A Public Notice and Fact Sheet were distributed to nearby property owners and interested parties and posted on the Central Valley Water Board webpage. No comments were received regarding the proposed case closure. A closure letter was issued on 4 October 2018.

- **Table Mountain Rancheria, Fresno County**

Soil degraded by diesel range petroleum hydrocarbons was found beneath and surrounding an aboveground storage tank. The degraded soil, which extended to approximately four feet below ground surface and was limited to an area of approximately 70 square feet, was excavated and transported off-site for disposal. A Public Notice and Fact Sheet were distributed to nearby property owners and interested parties and posted on the Central Valley Water Board webpage. No comments were received regarding the proposed case closure. A closure letter was issued on 30 November 2018.

- **Former SA Recycling Facility, Delano, Kern County**

Soil degraded by petroleum hydrocarbons at this former above ground and underground storage tank system property was identified to approximately 45 feet below ground surface. Impacted soils were excavated to approximately 10 feet bgs. Because approximately 60 feet of clean soil is present between the bottom of the diesel impacted soil and groundwater, staff concluded that the remaining impacted soils do not pose a threat to human health or underlying groundwater. A Public Notice and Fact Sheet were distributed to nearby property owners and interested parties and posted on the Central Valley Water Board webpage. No comments were received regarding the proposed case closure. A closure letter was issued on 30 November 2018.

- **Mobile M-1 Crude Oil Pipeline, Kern County**

Soil degraded by crude oil was discovered during removal of an unleaded gasoline underground storage tank. Subsequent site assessment indicated the source of crude oil was nearby abandoned crude oil pipelines. Remediation included removal of 200 feet of crude oil pipeline, excavation and disposal of impacted soil, absorption of surficial oil seepage, and bailing of free product from several groundwater monitoring wells. Results of an assessment conducted in 2017 indicated the site met closure criteria for the low-threat underground storage tank closure policy. A Public Notice and Fact Sheet were distributed to nearby property owners and interested parties and posted on the Central

Valley Water Board webpage. No comments were received regarding the proposed case closure. A closure letter was issued on 6 December 2018.

- **Former Naval Petroleum Reserve No. 1 Closure Project, Elk Hills, Kern County**

Nine separate sites (Areas of Concern) within the expansive Former Naval Petroleum Reserve, with a variety of oil sumps and containment structures associated with over 2,000 completed oil wells, received assessment, risk evaluation, and (as needed) excavation/disposal of impacted soils, under the oversight of the Central Valley Water Board and the Department of Toxic Substances Control. The primary constituents of concern in impacted soils were lead and arsenic. These nine Areas of Concern represent a few of the numerous Elk Hills sites that are regulated by Waste Discharge Requirements (WDR) Order 58-491. In response to discharger requests for rescission of WDRs for each Area of Concern as work was completed, on 26 April 2019 the Executive Officer issued nine interim letter/memo responses indicating that requirements for individual areas of concern have been satisfied, reserving rescission of the WDRs by Board action until all areas of concern with coverage under the order have satisfied closure requirements.

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, California Code of Regulations, title 23, section 2728(d)(2) 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 OFFICE

- **Del Monte, 1625 and 1626 Tulare Street, Fresno, Fresno County**

On 4 September 2015, Del Monte removed two heating oil USTs under the supervision of Fresno County Division of Environmental Health, after demolition of the onsite building. Soil samples collected from beneath the USTs contained petroleum hydrocarbon constituents and Del Monte conducted Investigations between May and July 2017. An estimated 2,400 pounds of petroleum hydrocarbons remain in the soil at

this site. Groundwater was not affected by the release and the remaining petroleum hydrocarbons should not pose a risk to human health and safety or the environment and should degrade naturally. The site is proposed for construction as the California Highspeed Rail Fresno depot. The case was closed in accordance with criteria contained in the *Low-Threat Closure Policy* on 22 March 2019.

- **Jiffy Food Stop (JFS), 5851 South Elm Avenue, Fresno, Fresno County**

JFS removed three 10,000-gallon gasoline USTs and dispensers in December 1998 and soil samples contained elevated petroleum constituent concentrations in soil. Methyl tert butyl ether (MTBE) was detected in a water sample from the onsite domestic well above the drinking water maximum contaminant level (MCL) in March 2008, and the well was replaced. JFS conducted multiple phases of site investigation and groundwater monitoring from May 2012 through September 2017. Soil vapor extraction (SVE) destroyed approximately 345 pounds of source mass during pilot testing in 2015 and operation and rebound testing in 2017. The groundwater contaminant plume is stable and decreasing in areal extent and concentration. Remaining petroleum hydrocarbons should continue to naturally attenuate and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. Water quality objectives should be achieved within a reasonable time frame. The case was closed in accordance with criteria contained in the *Low-Threat Closure Policy* on 3 April 2019.

- **Palisades Gas & Wash No. 842 (PGW), 253 East Sierra Road, Earlimart, Tulare County**

PGW discovered an unauthorized release from the UST system in October 2006 during site investigations for a property transaction. Soil sample analytical results indicated the presence of low petroleum concentrations. PGW completed additional soil investigation in November 2017 and there was no evidence of remaining contaminant mass in soil, likely due to natural attenuation, and groundwater was not affected. The Site is not expected to pose a risk to human health and safety or the environment. The case was closed in accordance with criteria contained in the *Low-Threat Closure Policy* on 22 March 2019.

- **Former Kings County Truck Lines, 754 South Blackstone Street, Tulare, Tulare County**

Three gasoline and diesel USTs, piping and pumps were removed in June 1997. Analytical results of soil samples from beneath the USTs indicated elevated concentrations of gasoline and diesel constituents. Several site investigations were conducted with oversight by the Tulare County Department of Environmental Health Services from December 1997 through January 2010. Groundwater monitoring from December 1998 through August 2007 indicated trace to non-detect gasoline and diesel constituents in groundwater. In March 2010, an SVE pilot test removed approximately 370 pounds of TPHg. The pilot test results and soil investigation conducted during March 2018 indicated that natural attenuation had reduced the extent and mass of hydrocarbon impacted soil. The site is paved with asphalt or concrete, and 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 criteria contained in the *Low-Threat Closure Policy* on 10 April 2019.

REDDING OFFICE

- **Pioneer Collision Center, Case 40304, Butte County**

The Discharger discovered a waste oil release in March 2016 during removal of a 320-gallon waste oil UST under Butte County Department of Environmental Health (BCDEH) oversight. On 17 March 2016, BCDEH referred the case to the Central Valley Water Board. Concentrations for all organic constituents were below screening levels; however, lead exceeded the 160 milligrams per kilogram (mg/kg) screening level for direct exposure. In February 2017, staff issued a Notice of Potential Conditional Eligibility for Closure with the contingency that the Discharger record a deed restriction for the property. The Discharger opted instead to perform additional investigation and removal activities. The Discharger performed soil removal and investigation activities in November 2017 and May 2018. Final confirmation sample results were below screening levels for lead. Approximately 18 tons of soil containing less than a pound of petroleum hydrocarbons and 70 pounds of lead were removed by excavation during combined tank removal and remedial actions. Staff closed the case in April 2019.

- **Ed Staub and Sons Petroleum, Case SLT5R985, Modoc County**

The site formerly operated as a bulk fueling facility with aboveground storage tanks, distribution piping, and fuel dispensers. A release of petroleum hydrocarbons occurred near a former loading dock and fuel dispensers in the northwest corner of the property. The initial investigation in 2001 detected petroleum hydrocarbons in shallow soil and groundwater. A subsequent investigation conducted in 2017 found localized residual petroleum contamination in soil at depth and significant decreases in petroleum hydrocarbons in groundwater. Staff review found no significant threats to human health and groundwater but noted that some release areas may not have been identified based on limited available site information. Staff closed the case in April 2019 with the condition that the case be reopened if petroleum contamination is encountered during future property use.

SACRAMENTO OFFICE

- **Cabral/Mcadams Property, 4204 N. Sutter Street, Stockton, San Joaquin County**

The property was historically used as a working fruit and nut orchard for more than 100 years. In 1989, a 1,000-gallon fuel UST was removed from the property, near former bunk house and workshop structures, in the central southern portion of the property. The UST was classified as a “farm tank” and as a result not subject to local oversight or inspection during removal. The Site case file does not contain any reports documenting the removal of the UST.

Assessment activities performed in 2006 and 2018 indicate that the release has not affected groundwater, and that the extent of impact is limited to shallow soil in the former UST area. The Site meets the rest of the general and media-specific criteria for

closure under the *Low-Threat Closure Policy*, and the case was closed on 20 March 2019.

- **Tesoro Mobil #68177 Case 2, 449 West F Street, Oakdale, Stanislaus County**

The Site is currently occupied by an active service station, convenience store, and car wash. On 12 July 2016 during pipeline testing associated with recent UST system upgrades, approximately 140 to 170 gallons of premium gasoline was released to the subsurface. Tesoro repaired the product line piping, and on 18 July 2016, excavated impacted pea gravel and soil to a maximum depth of approximately 4 feet below ground surface (bgs). Tesoro subsequently advanced three soil borings, installed three groundwater monitoring wells, and conducted five groundwater monitoring events to evaluate the extent of subsurface petroleum hydrocarbons. Soil and groundwater sample analytical data indicated that the extent of impacted soil is limited to a vertical interval of approximately 3 to 15 feet bgs in the immediate vicinity of the release, and groundwater is not threatened. Central Valley Water Board staff concurred with Tesoro's recommendation of regulatory closure under the *Low-Threat Closure Policy*. The case was closed on 19 March 2019.

ENFORCEMENT

- **Former Woody's Gas, Enforcement Actions, 220 E Highway 20, Upper Lake, Lake County**

The Site is an active fueling facility in Upper Lake. Lake County Division of Environmental Health discovered an unauthorized release of petroleum hydrocarbons during underground storage tank upgrades in 1998. A series of investigations reported fuel oxygenate contamination in several domestic wells and two community water system wells downgradient of the Site. The Assistant Executive Officer issued Monitoring and Reporting (MRP) Order R5-2019-0805 on February 26, 2019 to ensure the protection of human health and demonstrate reasonable progress toward closure of this case. The MRP formalizes the monitoring of groundwater, water supply wells, and water supply well treatment systems, and the Site's reporting requirements and schedule. The Executive Officer issued Cleanup and Abatement Order (CAO) R5-2019-0805 on May 1, 2019 to require completion of investigative tasks that better assess contaminant distribution, and, in consultation with Division of Drinking Water staff, development of an operations plan for the community water system's MTBE treatment facility.

STAFF RECOGNITION

SACRAMENTO OFFICE JANUARY 2019 TO APRIL 2019

Employee: Tom Gavigan
Unit: Storage Tanks/Site Cleanup
Title: Engineering Geologist
Supervisor: Joe Mello

Tom is receiving this award for his work across multiple programs, including storage tank cleanups, site cleanups, and mines. He is assigned cases that are technically challenging and require a greater amount of detail than our typical cases. He has also been assigned cases where our typical approach has been insufficient to complete cleanups, and he has crafted alternative approaches that are moving stalled cleanups forward.

Tom applied for and received a Site Cleanup Subaccount Program (SCAP) grant (i.e., funding created by SB445) for the initial investigation of Carousel Cleaners, a suspected source of tetrachloroethene (PCE) contamination that has impacted three municipal wells. The responsible party has neither the money nor ability to manage a cleanup due to health and language issues, and the case was stalled. Tom's application was the first grant approved by State Board that will be managed by Regional Board staff, not the responsible party.

As part of the SB445 application process, Tom developed a scope of work and preliminary cost estimate to investigate the Site. He has been working with State Board, the Department of General Services (DGS) staff, and our contractor, AECOM, to complete the work, which includes an assessment of Site historical activity, sub-slab soil gas and indoor air sampling, grab sampling of soil gas and groundwater on the property, installation of shallow groundwater monitoring wells, and a preliminary evaluation of remedial options.

In addition, Tom is finalizing a draft Cleanup and Abatement Order (CAO) for the Newton Copper Mine that will require the responsible parties to apply for a SCAP grant. The mine has been inactive for more than 70 years and is responsible for discharging copper to the East Fork of Copper Creek. This discharge has created an extensive dead zone in the creek. The mine has been subject to various cleanup orders since 1992, which have been mostly ignored. Tom was assigned this case because his management believes he has a good chance at success with the alternative approach he is pursuing.

Tom's UST caseload includes two gasoline service stations that have impacted multiple water supply wells with methyl tert butyl ether (MTBE). He is working with the Cleanup Fund on one case to expedite the cleanup and with the Division of Drinking Water to apply for funding to consolidate the impacted community system with another local water system (Upper Lake County Water District).

On the other UST case, five domestic wells in a remote community are impacted with MTBE. Tom completed and the EO issued a CAO with a Monitoring and Reporting Program (MRP) which requires further identification of threatened/impacted domestic wells and regular sampling and reporting for these wells. The consultant for the responsible party is scheduled to complete various pilot tests for cleanup after the snow melts this spring.

Tom has demonstrated his ability to handle technically and administratively challenging cases and is more than deserving of this recognition.

Employee: Delany Broome and Phillip Carter
Unit: SWAMP/Mercury TMDL programs
Title: Scientific Aids
Supervisor: Anne Littlejohn

Phillip Carter and Delany Broome are highly valued members of the Planning Section and they are being recognized for their diligent efforts supporting the SWAMP and Mercury TMDL Programs. Phillip and Delany are hard-working and positive team members who have worked double duty in recent months to complete not only their normal daily tasks, but also the workload created by several vacant Scientific Aid positions. They have consistently gone out every week, through the rain and the freezing hail, to sample *E. coli* levels in the Lower American River. Upon their return to the office, they quickly and efficiently process these water samples in our in-house laboratory to ensure that the *E. coli* results are available to the public via our online map portal within a day later.

In addition, Phillip and Delany support the Mercury TMDL unit by energetically helping with a variety of data management tasks. They are compiling aqueous and fish tissue data throughout the Central Valley to be used within the Delta, Central Valley Rivers, and Statewide Reservoir Mercury Control Programs. They researched evidence to support recreational fishing beneficial uses (COMM) and are drafting a summary of their findings. Delany and Phillip take on each task they are assigned with enthusiasm and a great attention to detail. We are fortunate to have them working at the Central Valley Water Board and they are well deserving of this award.

Employee: Dina Calanchini
Unit: Waste Discharge Requirements/Non-15
Title: Engineering Geologist
Supervisor: Scott Armstrong

Dina Calanchini is an Engineering Geologist in Rancho Cordova's Non-15 Waste Discharge to Land Permitting Unit. For the last three years, Dina has prepared WDRs for numerous food processing operations. Dina recently completed updating WDRs for the Morning Star Packing Company to ensure regulatory consistency with other similar food processing operations. Dina willingly took on this challenge by objectively considering the conditions of the discharge and working with Morning Star's team in a productive and respectful manner.

Dina successfully maintained an open dialogue with Morning Star's team as she guided them through each phase of the permitting process. She quickly developed a thorough understanding of their wastewater operations and worked constructively with the Discharger. In the end, Dina restored Morning Star's trust and willingness to comply with the Water Board's requirements. The final WDRs were clear, concise, and uncontested.

Dina's enthusiastic and cheerful disposition in dealing with the challenges of this permit is a great example of her attention to detail and fair-minded professionalism. Dina has rightly earned a reputation of being a solid go-to person for getting any job done reliably and efficiently. For these reasons and many others, I am proud to recommend that Dina receive this recognition.

Employee: Nicholas White
Unit: Quality Certification and Dredging Unit
Title: Water Resource Control Engineer
Supervisor: Stephanie Tadlock

Nicholas is a Water Resource Control Engineer in the Sacramento Water Quality Certification and Dredging Unit. Nic exhibits a high level of organization and attention to detail, as well as effectiveness in communicating with applicants and other coordinating agencies for projects he has been tasked with completing. When asked to complete a certification within a short time frame, Nicholas does so with a willing and positive attitude. He has worked with staff new to the unit to make sure they gain the knowledge and skills necessary to complete certification drafts in a timely manner and has provided guidance to staff with his knowledge and expertise in water quality certifications, dredging, field inspections, and enforcement actions.

In addition to processing and issuing certifications, Nic conducts numerous field inspections for complaints that have been received in coordination with Construction Storm Water staff. If necessary, he has made critical recommendations and decisions on levels of enforcement for projects that are not in compliance or have not received a certification. He also has been the lead staff assisting with issuing dredging authorizations and developing a new Dredging General Order to be presented to the board for consideration and adoption. He has been critical in efforts to create and implement a Memorandum of Understanding with the United States Army Corps of Engineers for their ongoing maintenance dredging activities in the Sacramento and Stockton Deep Water Ship Channels.

Nicholas's work productivity and strong commitment to customer service, as well as his "can-do" attitude, makes him a valuable staff member of the Water Quality Certification Unit, and is very deserving of the Employee of the Month Award.

Employee: Destinee McGuire
Unit: Federal/Private Sites Cleanup & Local Oversight
Title: Scientific Aid
Supervisor: Gerald Djuth

Destinee McGuire is a Scientific Aid in the Site Cleanup Program who has been with the Regional Board since January 2018. She is an Environmental Specialist and GIS marvel who has been providing technical and GIS support for both regional and site-specific assessments.

A tenacious investigator and searcher of data, Destinee has used her technical and GIS talents to support Region-wide effort to identify contaminant sources that are impacting approximately 800 wells in our Region. Working with staff, Destinee was able to develop and implement a very complex analysis to identify contaminant source areas in our Region. This analysis is now being used to help project managers distinguish potential point source discharges. With her most recent efforts, Destinee was able to locate several databases at the Environmental Protection Agency with the locations of registered facilities that distribute pesticides and hazardous materials in our Region. Destinee was also able to find databases within the Department of Pesticide Regulation that allowed her to calculate the mass of a fumigant applied to each square mile of agricultural land in our Region. Compilation of all this data into a single GIS map shows the spatial relationships between potential point source discharges from distribution facilities, potential non-point source discharges from agricultural application lands and all contaminated municipal wells in our Region. So now, for the first time, Site Cleanup Program staff have all this information in one place to help assess whether pollution in a well is likely the result of legally applied pesticides, from an illegal point source release or both.

When Destinee is not making GIS maps and sorting data, she entertains herself by organizing site files and making a Microsoft Access database of all the files in the Site Cleanup Section which makes it much easier for all of us to locate and re-file critical project documents.

In summary, Destinee is a rare talent who enjoys working with huge databases that make most people scream. She is a joy to work with, a team player and a great technical resource to our Region.

Employee: Michelle Snapp
Unit: NPDES Permitting
Title: Water Resource Control Engineer
Supervisor: Josh Palmer

Michelle is an Engineer in the Sacramento Point Source Permitting Unit. She is being recognized for her outstanding work performance in the NPDES permitting section. Since Michelle started with the Sacramento Unit in July 2015, she never shies away from new challenges, always exhibits a positive attitude, produces quality work

products, and continues to rise to every challenge thrown her way. Michelle has done a great job orchestrating and facilitating the Contaminants of Emerging Concern program, which is no small feat for a project with multiple stakeholders. Recently, she has taken on updating the program manual for the section, for which she has already made significant progress in a small amount of time. Also, when another staff member from the unit took a promotion, Michelle stepped up and took on additional work along with a third special project to prepare the section for mandatory web document accessibility, all while keeping up with the requirements of her own workload.

Michelle's work productivity, attitude and thoughtfulness make her a valuable member of our unit and the organization, she is incredibly deserving of the Employee Recognition Award.

Employee: Mohammad Farhad
Unit: NPDES/Forest Activities unit in the Compliance and Enforcement section.
Title: Water Resource Control Engineer
Supervisor: Kim Sellards

Mohammad Farhad is a Water Resource Control Engineer in the NPDES/Forest Activities unit in the Compliance and Enforcement section. Mohammad started at the Board as a student in December 2008 and was hired on permanently in January 2012.

Mohammad's normal workload involves conducting inspections at wastewater treatment facilities, reviewing reports submitted by dischargers, and preparing enforcement orders.

In 2019, after the Regional Board's California Integrated Water Quality System (CIWQS) Coordinator was called back to the State Board, Mohammad volunteered to take on additional duties as CIWQS Coordinator for the Compliance and Enforcement section. This is a critical position for the Board, overseeing and verifying the compilation of metrics related to numbers of inspections and enforcement orders.

Mohammad queries the Water Board's multiple databases and coordinates with Program Managers to track compliance with performance metrics by our three Regional Board offices. Mohammad has proven himself adept both at the database work as well as at working with staff and program managers throughout the region.

Throughout all of this work Mohammad is known for both his cheerful demeanor and his can-do attitude.

For all this and more, Mohammad is deserving of Employee of the Month.

Employee: Chris Jimmerson
Unit: Irrigated Lands Regulatory Program
Title: Environmental Scientist
Supervisor: Susan Fregien

Chris is receiving this award in recognition of his data management leadership and outstanding work performance in the Irrigated Lands Regulatory Program. With his Data Management Team, Chris has ensured that more than one million surface water data records are accurately uploaded to the CEDEN database. This includes review of extensive and complex data deliverables, including quality control data, which is essential to validate and produce defensible data. Chris also works closely with State Board staff to ensure that ILRP data are publicly available in CEDEN on a timely basis.

Chris has a keen interest in learning and developing data management and analysis tools that streamline his work and that of his colleagues. His work has greatly increased the efficiency of data retrieval and analysis tasks in the ILRP, as well as other programs in our office. His data query tools enable staff to quickly create summaries, graphs and figures that facilitate decision-making.

Chris is also the liaison for the San Joaquin Delta Coalition. He works closely with coalition representatives to ensure their monitoring, reporting, and management practice implementation activities comply with the General Order. Chris is always willing to help customers and coworkers and his many accomplishments can be credited to his thorough approach, hard work, and excellent technical abilities.

REDDING OFFICE JANUARY 2019 THROUGH APRIL 2019

Employee: Courtney Kasich
Unit: Administration
Title: Office Technician
Supervisor: Clint Snyder, Assistant Executive

Courtney is receiving this award for her contributions to the Redding Admin Group, the region-wide Administration Program, and the Redding office. Courtney joined the Central Valley Water Board in October 2017, has gotten up to speed quickly in an ever-changing and challenging landscape and has proven to be a valuable employee and coworker.

Courtney is responsible for many facets of the front office including ordering equipment and supplies, document production, training requests, managing vendors, and vehicle maintenance. Her efforts over the past year and a half have greatly improved work flow and reduced the administrative burden on technical staff and managers. Courtney is being recognized for her willingness to jump in and figure things out with little to no guidance, her eagerness to improve internal and region-wide administrative processes, and her exceptional attitude in working with the public and our staff.

Courtney's attention to detail, willingness to take on new challenges, and hold all of us accountable for established expectations benefit her unit, the Redding office, and the region as a whole. She is thoughtful, engaged and professional in her work, and we appreciate the upbeat and positive energy she brings to the office.

Employee: Marisol Gonzalez
Unit: Cannabis Regulatory and Enforcement Unit, Redding
Title: Engineering Geologist
Supervisor: Griffin Perea, Senior Engineering Geologist

Marisol is receiving this award for her contributions to the Redding Cannabis Regulatory and Enforcement Unit, the Cannabis Regulatory Program, and the Redding office. Marisol joined the Central Valley Water Board in June 2017, and immediately began coming up to speed in a complex and expanding program.

Marisol is tasked with conducting cannabis site investigations and overseeing enforcement actions stemming from un-authorized discharges at cannabis cultivation sites, and when initially hired was also responsible for performing permitting aspects of the program. Marisol has consistently taken on new challenges and projects without hesitation and with great professionalism. Marisol has served as the lead on numerous enforcement cases which has required extensive coordination with the Department of Fish and Wildlife, Office of Enforcement attorneys, landowners, consultants, and numerous other individuals and agencies. Recently, Marisol successfully brought a very complex administrative civil liability complaint to our Board, requiring close attention to detail and the ability to quickly react to last minute case developments in an organized manner.

In addition to Marisol's technical abilities, she has assisted with training new staff, organizing large scale inspections throughout the region, and contributing to new processes and procedures within the Cannabis Program. Marisol's positive attitude and demeanor, even during difficult assignments, is much appreciated and has greatly aided in the development of a complex regulatory program. Marisol's contributions to the Redding office, the Cannabis Program, and the region as a whole are greatly appreciated.

Employee: Ronna Bowers
Unit: Timber Unit, Redding office
Title: Engineering Geologist
Supervisor: Mathew Boone, Senior Environmental Scientist

Ronna is receiving this award for her contributions to the Forest Activities unit and program, our Redding office, and the Board as a whole. Ronna joined the Central Valley Water Board in 2016 and has continued to adapt and address challenges in an ever-changing and demanding program. Ronna has established herself as a valuable employee and great coworker.

Ronna currently handles all the timber harvest plan review and inspections north of Highway 299 within Shasta County. She provides technical oversight for the Battle Creek Watershed Road Sediment Reduction Program which is a field-based road assessment inventory to characterize sediment sources along twenty-three (23) miles of native surface and/or rock road within the Battle Creek watershed. In 2018, we saw 3 major wildfires occur just in Shasta County. The Carr, Delta, and Hirz fires. Much of the damage occurred on private and industrial timberlands. Ronna has processed over 75 emergency timber harvest projects across more than 12,000 acres and many Substantially Damaged Timber Harvest Plans totaling more than 2,000 acres. Northern California then received above-average rainfalls during the 2018/2019 winter and in several instances, these systems were recorded as having an average of 3 inches of rain fall in a 24-hour period. This rainfall combined with the recent fire scars triggered localized flooding and debris flows resulting in numerous culvert and road prism failures including one 60-foot long bridge. Due to these sizable failures and subsequent discharges to surface waters, Ronna has conducted and continues to conduct many compliance inspections working with both private and industrial landowners to develop site specific mitigations and BMPs to improve those failed crossings, roads and various other erosion control structures impacted by the severe winter. This work is in addition to her normal workload which consists of oversight on 38 active Timber Harvest Plans totaling 24,000 acres.

Ronna has continually met these challenges with a positive and can-do attitude. Ronna carries with her a level of professionalism and dedication that well represents the Redding office, the Board's Forest Activities Program and the Central Valley Regional Water Quality Control Board as a whole.

Employee: Jason Schroeder
Unit: Groundwater Unit, Redding office
Title: Engineering Geologist
Supervisor: Kate Burger, Senior Engineering Geologist

Jason is receiving this award for his contributions to the Groundwater Unit, the Site Cleanup and Underground Storage Tank Programs, and the Board's Redding office. Jason hit the ground running when he joined the Central Valley Water Board in February 2017, taking on multiple stalled and recalcitrant cases. Jason is well liked by his colleagues and is a sought-after technical resource for the Redding office. Jason has a great attitude and is always willing to lend a hand when his unit members or others need assistance.

Jason recently presented one of his recalcitrant cases, Allied Washoe, at the Central Valley Water Board's February meeting. Although the case has been active since the late 1990s, a significant petroleum source remains in-ground that is impacting a downgradient water supply well and the community sewer system. Jason extemporaneously presented the essence of the case to the Board in a matter of minutes. The Board adopted an Administrative Civil Liability Order imposing monetary penalties in excess of \$660,000.

In addition, Jason has been working with Union Pacific Railroad Company to improve the remedies it has deployed at its Dunsmuir Railyard. This has required many in-depth discussions of the contaminant behavior and migration pathways at the site. These efforts are expected to come to fruition in the near future with the issuance of an enforcement order identifying the necessary steps to address the century-old contamination and to protect the Sacramento River.

FRESNO OFFICE JANUARY 2019 THROUGH APRIL 2019

Employee: Denise Soria
Unit: Non-15
Title: Water Resource Control Engineer
Supervisor: Alex Mushegan

Denise Soria is receiving this award because she works efficiently and prioritizes projects, is willing to take on managing new sites, and works well with dischargers and uses her organizational skills to ensure projects don't fall between the cracks. Denise has specifically completed the following tasks recently: issued tentative WDRs for the February 2019 Board Meeting; prepared and presented a Pre-Issue Paper Outline to identify and address anticipated issues with a Discharger; drafted a Notice of Applicability for the Small Domestic General Order; and drafted a technical memo and letter to a discharger reviewing over 14 technical reports and was able to assist the disadvantage community in potentially finding a solution to their Cease and Desist Order.

Denise is an exceptional staff, hardworking, and is very deserving of this award.

Employee: Kristen Gomes, PE
Unit: Title 27
Title: Water Resource Control Engineer
Supervisor: Daniel Carlson

Kristen Gomes is receiving this award because she performed beyond her normal job duties in keeping the Title 27 Program work moving during Nov thru February in the absence of the senior engineering geologist of the unit and has acted as the only Title 27 staff person in the Fresno office during the months of February and March 2019. In addition, specific tasks addressed during the months of February and March, include the following:

- Review of two monitoring well installation work plans;
- Review of one well destruction report;
- Review of a well installation and destruction report;
- Issuance of two composting 13260 letters;
- Two reviews of Alternative Demonstration Reports;
- Review of a Tech Report for the Composting General Order;
- Review of a Detection Monitoring Program Evaluation Work Plan;

- Review of Construction Quality Assurance Certification Report for the Phase 2B Liner System at a local Landfill, and
- Completed Revised WDRs for a Landfill that was adopted at the April Board meeting.

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

Employee: Trevor Goines
Unit: Irrigated Lands Regulatory Program
Title: Water Resource Control Engineer
Supervisor: David Sholes

Trevor has worked for the Board for about a year and a half now and has always been efficient and effective, exhibiting good judgement and willing to take on any task.

Trevor's normal duties include managing work in a particular coalition, but he has taken up additional work as staff overseeing other coalitions temporarily fulfilled other duties. This included preparing multiple directives and notices of violation, and many hours on the telephone following-up with growers to resolve enrollment or reporting issues. Last month, Trevor reviewed and prepared a memorandum commenting on a Surface Water Monitoring Plan, reviewed and prepared a letter granting an extension request, and assisted in drafting responses to extensive comments related to adoption of seven General Order revisions. He also provided rapid response to a request for compliance data and assembled enforcement data for an update to the Board.

Trevor's positive attitude and good work habits are worthy of recognition.

Employee: Samantha Falcon
Unit: Well Stimulation
Title: Engineering Geologist
Supervisor: Mike Pfister

Samantha Falcon is receiving this award because she performed well for the month. Specifically, she:

- Reviewed four well stimulation treatment application packages including 18 separate proposed stimulations, and prepared detailed review memorandums,
- Reviewed several SB4 groundwater monitoring reports for the South Belridge Oil Field and prepared a draft letter and memo documenting the reviews,
- Helped to track SB4 activities and maintain a tracking sheet for the Unit.

Samantha's work is well thought out, well written, and thorough. Her hard work and good attitude are deserving of recognition.

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 Executive Offer’s Report (EO Report) is intended to inform the Board and the public on enforcement efforts since the last EO Report was issued. For this reporting period, the following sections provide: 1) a summary of enforcement orders issued; and, 2) a summary of *all* enforcement actions issued.

Orders and Complaints Issued or Adopted – Enforcement Table 1, included below, provides a summary of all of the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDO) ; 13267 Investigative Orders; Expedited Payment Letter (EPL), 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 CIWQS database.

Enforcement Table -1-Region 5 enforcement Orders (1 March 2019 through 15 April 2019)

Action Date	Agency	County	Notes
3/1/2019	Concord Ready Mix Inc	Contra Costa	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/8/2019	Oliveira Enterprises Inc	Contra Costa	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/11/2019	Carlos C Lourenco Dairy	Merced	ACL R5-2019-0505 issued, in amount of \$93,594.01, because on 19 October 2017, approximately 116,064 gallons of dairy manure wastewater blended with freshwater was released into Black Rascal Creek when a valve was mistakenly left open during irrigation of Discharger’s fields. None of the dairy lagoon wastewater discharged into Black Rascal Creek was recovered.
3/15/2019	Syar Concrete LLC	El Dorado	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/15/2019	Chili Bar LLC	El Dorado	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/15/2019	United Parcel Service Oakland Hub	Contra Costa	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.

Action Date	Agency	County	Notes
3/22/2019	Blue Diamond Grower	Stanislaus	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/22/2019	FTG Construction Materials Inc	Contra Costa	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/22/2019	Lauenroth Trucking	Lake	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements..
3/22/2019	Greenrock Ranch Lands, LLC	Amador	CAO R5-2019-0701 issued to address the stockpiled biosolids at the facility, which is regulated by Waste Discharge Requirements (WDRs) R5-2013-0022. The CAO includes timelines for the completion of certain tasks and the submittal of specific reports to address the stockpiled biosolids.
3/27/2019	Nevada CSD No 1	Nevada	ACL R5-2018-0534 in the amount of \$9,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon completion of a 30-day public comment period ended on 22 March 2018 and executed by the Central Valley Water Board Executive Officer on 24 March 2018.
3/29/2019	California Natural Resources Corporation	Nevada	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/29/2019	Schnitzer Steel Industries Inc	Sacramento	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
3/29/2019	Original Sixteen to One Mine, Inc.	Sierra	ACL R5-2019-0506 charges the Discharger with administrative civil liability in the amount of 12,000, which represents the sum of MMPs for effluent limitation violations that occurred between 1 January 2017 and 31 December 2018.
4/12/2019	Concrete Inc Knife River	San Joaquin	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
4/12/2019	River Delta Unified School District	Sacramento	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.

Enforcement Update – Enforcement Table 2, included below, summarizes the enforcement actions issued in all the Regions for period between 1 March 2019 through 15 April 2019. From a statewide perspective, Region 5 is responsible for 26% of the

enforcement actions tracked in CIWQS during this period including 52% of all NOV's and 23% of all ACL's.

Enforcement Table 2 – Statewide Enforcement Actions in CIWQS (1 March 2019 through 15 April 2019)

Region	13267	NNC	ACL	CAO	EPL	NOV	NTC	SEL	VER	Total
1	0	0	1	0	0	2	0	0	0	3
2	0	0	0	0	0	5	0	0	0	5
3	0	0	0	0	3	8	3	1	0	15
4	0	108	6	0	8	42	4	0	3	171
5F	0	0	0	0	0	7	0	0	0	7
5R	1	0	0	0	0	30	0	0	2	33
5S	12	10	3	1	0	40	0	2	3	71
R5 Total	13	10	3	1	0	77	0	2	5	111
6T	0	0	0	0	0	5	0	0	0	5
6V	0	0	0	0	0	0	0	0	0	0
7	0	0	1	0	0	0	0	0	0	1
8	0	27	0	0	7	0	0	58	11	103
9	0	0	2	0	0	9	0	8	0	19
Total	13	145	13	1	18	148	7	69	19	433

Enforcement Actions:

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

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 (1 March 2019 through 15 April 2019)

Office	13267	ACL	NOV	Total
5F	1	0	2	3
5R	1	0	2	3
5S	1	1	4	6
Total	3	1	6	10

Finally, the Regional Board’s Irrigated Lands Regulatory Program (ILRP) does not upload enforcement action data to the CIWQS or GeoTracker databases. A summary of those enforcement actions is included in Table 4, below.

Enforcement Table 4 – Region 5 ILRP Enforcement Actions (1 March 2019 through 15 April 2019)

Office	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to 13260 Directives	Total
Fresno	32	0	32
Sacramento	1	0	1
Total	33	0	33

SANITARY SEWER OVERFLOWS (SSOs) AND COMPLAINTS

Statewide General Waste Discharge Requirements for Sanitary Sewer System (SSS General Order) 2006-003-DWQ requires enrollees to submit SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. Below is the list of all Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters.

Category 1 SSOs in excess of 50,000 gallons that reached surface waters

There was no SSO event in excess of 50,000-gallons between 1 March 2019 and 15 April 2019. However, there was one SSO on 27 February 2019 that was inadvertently not included in the previous EO Report and is discussed below.

Southeast Sanitary Sewer Collection System, Lake County Sanitation District, Lake County

On 27 February 2019, while conducting an inspection of the Lake County Sanitation District’s Southeast Regional Wastewater Facility, Central Valley Water Board was notified of a raw sewage spill occurring from a manhole located at 6820 Meadowbrook Drive in Clearlake. On 28 February 2019, Lake County Special Districts notified the California Office of Emergency Services (Cal-OES) of the spill (OES #19-1450). According to the reports, the Category 1 spill estimated at 85,500 gallons was

discovered at 8:00 pm on 26 February 2019 and was stopped at 3:00 pm on 27 February 2019. The spill followed the natural drainage course across Meadowbrook Drive and entered an unnamed seasonal creek and drainage course prior to discharging into Cache Creek which drains into Clear Lake. The spill was from excessive inflow and infiltration during a storm event causing a surcharge in the collection system. Pumper trucks operated by contractors were used for the duration of spill to reduce the volume of water in the collection system. During a 1 April 2019 inspection, the District identified two areas of the collection system with significant inflow and infiltration. The District plans to conduct a detailed camera inspection of the collection system during the spring of 2019 and implement repairs during the summer of 2019 unless the camera inspection determines that more comprehensive repairs are needed. An additional discharge of 5,080 gallons was also reported at this address on 6 March 2019. Relevant data from all the spills occurring during this reporting period is included as **Attachment A**.

For the reporting period between 1 March 2019 through 15 April 2019, there were **135** total SSO spills: **24** Category 1, **5** Category 2, and **106** 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 webpage at:

http://www.waterboards.ca.gov/water_issues/programs/sso/index.shtml.

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

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS

Complaints

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 March 2019 through 30 April 2019, Central Valley Water Board staff have received a total of **33** complaints from phone calls, emails, and from the CalEPA Complaint database (<https://calepacomplaints.secure.force.com/complaints/>). To date, **28 (85%)** complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining **5** complaints remain ongoing.

Performance Targets

Performance measurement and reporting is an important component of a complete system of performance management needed to demonstrate how well programs or strategies are working and why. 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 link below and was used to develop the FY 2018-2019 performance targets

http://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf. Below is the Region 5 Performance Measurement Summary for the 2018-2019 fiscal year. This report was produced with data through 80% of the current fiscal year.

Enforcement Table 5 – Region 5 Performance Measurement Summary from 1 July 2018 through 22 April 2019

Programs	Original Target	* Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	** Total # of Inspections Performed	Comments
NPDES Wastewater						
Major Individual Permits Issued, Revised, and Renewed	8	5	63%	n/a	n/a	
Major Individual Facilities Inspected	24	17	71%	n/a	18	
Minor Individual Permits Issued, Revised, and Renewed	12	8	67%	n/a	n/a	
Minor Individual Facilities Inspected	17	12	71%	n/a	12	
Minor General Enrollees Facilities Inspected	0	2	N/A	n/a	2	City of Rocklin, and California Exposition and State Fair
Waste Discharge to Land – Wastewater						
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	26	14	53%	n/a	n/a	
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	161	141	97%	n/a	156	
Land Disposal						
Landfills Permits Issued, Revised, and Renewed	13	12	92%	n/a	n/a	
Landfill Inspections	111	60	64%	n/a	71	
All Other Permits Issued, Revised, and Renewed	2	4	200%	1	n/a	
All Other Inspections	30	37	160%	n/a	48	
NPDES Storm Water						
Stormwater Construction Inspections	385	254	86%	n/a	333	
Stormwater Industrial Inspections	195	172	93%	n/a	181	
Stormwater Municipal Inspections	0	2	N/A	n/a	2	
Other Programs						
Forest Activities Inspections	166	185	111%	n/a	172	
Confined Animal Facility Inspections	275	244	93%	n/a	255	
Clean Up						
New DoD Sites into Active Remediation	6	6	100%	n/a	n/a	
New SCP Sites into Active Remediation	50	58	116%	n/a	n/a	
Cleanup Program Sites Closed	60	84	140%	n/a	n/a	
New UST Sites into Active Remediation	23	15	65%	n/a	n/a	
Underground Storage Tank Sites Closed	68	69	101%	n/a	n/a	

* Actuals: Number of facilities inspected or permits issued

** Total #: Number of inspections completed including all re-inspections.

DELTA ACTIVITIES

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). It is supported by funds from the Cleanup and Abatement Account and Delta dischargers subject to the Delta Mercury Control Program. The goal of the Delta MERP is to protect public health by reducing exposure to methylmercury in fish caught in the Delta.

On 28 April, MERP staff participated as an exhibitor for the Sacramento Earth Day community event at Southside Park. Staff spoke with approximately 200 people and distributed hundreds of program materials developed specifically to inform members of disadvantaged communities about how to reduce exposure to methylmercury. MERP staff will be attending several more similar public outreach events during this final year of the program.

On 30 April, staff received final reports from each of the three MERP Community Project Grant recipients. MERP staff is currently reviewing those final reports about outreach and education activities in fiscal year 18-19. The reports also provided feedback from community program participants on draft low-literacy MERP program materials that were developed for members of disadvantaged communities. Community Grant recipients include First 5 in Yolo County, First 5 in San Joaquin County, and Rio Vista CARES. Rio Vista CARES works closely with First 5 and the Women, Infant, and Children Program (WIC) and provides a variety of programs and services for children prenatal through age 5 and their families to optimize early childhood development. Collaboration with WIC staff to incorporate the MERP fish consumption advisory message into existing programs for children and their families will be a sustainable opportunity to continue educating the public how to reduce mercury exposure through fish consumption.

MERP staff is also continuing coordination with local entities and other state agencies for additional fish consumption advisory sign posting at Delta sites with public fishing access in 2019. The State Lands Commission has continued to be involved since 2016 and recently agreed to post an additional six fish consumption advisory signs in the San Joaquin River and Central South Delta advisory regions to aid our efforts. MERP staff also posted 8 more signs and conducted outreach to public Delta marinas with substantial fishing boat traffic. Many entities agreed to post a laminated version of the fishing advisory signs. MERP staff are currently planning to conduct sign posting effectiveness evaluations in the summer of 2019.

The Delta Conservancy is in the process of updating the webpages for Delta MERP (link below), which includes current advisories in multiple languages, information about the MERP grants programs, details regarding stakeholder meetings, and new educational materials. The Delta MERP's website will be shared with all partners to ensure lasting program sustainability after completion of this agreement.

<http://deltaconservancy.ca.gov/delta-mercury-exposure-reduction-program-merp/>

Delta Regional Monitoring Program (Delta RMP)

The Delta RMP contaminants of emerging concern (CEC) subcommittee has been meeting to develop a work plan and quality assurance program plan so that CEC monitoring can begin in FY 2019-2020. Key topics include determining which labs are capable of achieving acceptable detection limits for each analyte/matrix (water, sediment, fish and bivalve tissue) combination and sample collection logistics.

The Delta RMP mercury subcommittee has met several times to discuss current and future mercury sampling for water and fish tissue. The SC previously approved additional winter water sampling events to support seasonal and annual mass balance estimates for the 2022 Delta Mercury TMDL update. In addition to long-term trend monitoring in fish and water, the group is proposing to monitor prey fish and sport fish near habitat restoration projects in the Yolo Bypass, northeast Delta, and west Delta to start assessing whether restoration projects are impacting mercury levels in fish.

On May 9, the Technical Advisory Committee met to discuss monitoring proposals for FY 2019-2020. The Delta RMP nutrient subcommittee worked with the Delta's Nutrient Research Plan stakeholder group on a proposal to monitor nutrients and biota during the effluent valve replacement project at the Sacramento River Wastewater Treatment Plant scheduled for summer 2019 (see next item). As noted above, the TAC considered proposals from the mercury and CECs subcommittees. Pesticide monitoring will continue, with the only significant change being a reduced rainfall trigger to capture first flush urban runoff earlier in the water year. The TAC also was updated on the progress of the pesticides and toxicity interpretive report.

Delta Nutrient Research Plan

Stakeholder Group

The Delta Nutrient Research Plan Stakeholder and Technical Advisory Group (STAG) and the Delta Regional Monitoring Program's Nutrient Subcommittee worked jointly to finalize a proposal to the Delta RMP for funding in fiscal year 2019/2020. The proposed project would monitor nutrients, phytoplankton, zooplankton, and other parameters in the Sacramento River and neighboring channels during and after a 48-hour hold of effluent discharge from the Sacramento River Wastewater Treatment Plant. Other supporters of the proposed project include Regional San, US Geological Survey, US Bureau of Reclamation, and the State Water Contractors.

Other Implementation Efforts

Staff is in the process of developing agreements for two projects:

Prop 1 grant from the California Department of Fish and Wildlife for monitoring of cyanobacteria toxins in water and benthic organisms at ten locations in the Delta. An assessment of nutrients and a pilot test for harmful cyanobacteria management in Discovery Bay. Funding is offered by the State Water Resources Control Board from USEPA (Clean Water Act Section 205(j)) funds.

Staff is continuing monthly monitoring in Discovery Bay with help from the Discovery Bay Community Foundation.

The Water Boards are providing funding to the San Francisco Estuary Institute (SFEI) to further the development of a biogeochemical model for the Delta and Suisun Bay. In March, SFEI delivered its first report on general scenarios to be modeled and projected levels of confidence in the results.

Delta Mercury Control Program

The Delta Mercury Control Program (DMCP) required entities responsible for reducing methylmercury in the Delta to participate in studies to develop and evaluate ways to manage methylmercury. Control Studies focused on different methylmercury source types by means of monitoring, pilot testing, or modeling. Most dischargers submitted their control study final reports in October 2018. The DMCP requires convening of an external advisory committee to review the final reports. The Board will consider the findings and recommendations of the advisory committee as part of its reconsideration of the entire DMCP.

In December 2018 the Delta Stewardship Council agreed to fund and convene an independent scientific peer review and advisory panel to review the methylmercury control study final reports, conclusions, and the effectiveness of control actions proposed by the dischargers subject to the DMCP. Staff from the Delta Stewardship Council worked with Board staff and stakeholders to develop a charge and questions for the review panel and nominate potential review panel members. The Lead Scientist of the Delta Science Program selected panelists based on the nominations.

In late April 2019 the charge and study materials were sent to the panel members. The panel has about 75 days to review the material and provide a written report. More information about this project can be found at <http://deltacouncil.ca.gov/science-program/2019-independent-science-review-and-advice-delta-mercury-control-program>

San Joaquin River Dissolved Oxygen TMDL Implementation - Aeration Facility

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the San Joaquin River 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

During this reporting period, from March 5, 2019 to May 7, 2019 there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary. Discussions to extend the agreement that provides funding for operation of the aerator have begun between aeration partners and a new funding agreement is expected to be finalized before June 1, 2019. As discussed at the February 2019 Board meeting, staff are drafting requests for additional parties to begin participating in the funding agreement, and those requests are expected to be sent out in May.

More information on the San Joaquin River Dissolved Oxygen TMDL Control Program are available at the [San Joaquin River Dissolved Oxygen TMDL Website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project/san_joaquin_oxygen/index.shtml) (https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project/san_joaquin_oxygen/index.shtml)

TMDL BASIN PLANNING

Central Valley Pyrethroids Basin Plan Amendment and TMDL

On 8 June 2017 the Board adopted the Basin Plan Amendment for the Control of Pyrethroid Pesticide Discharges. The State Water Board approved the Basin Plan Amendment on 10 July 2018. The Office of Administrative Law (OAL) approved the Amendment on 19 February 2019. On 22 April 2019, USEPA approved The TMDLs in the amendment. The Basin Plan Amendment, including the TMDLs, is now fully approved and effective.

Completion of baseline monitoring for pyrethroids by municipal stormwater and agricultural dischargers is required 2 years from the date of OAL approval. Baseline monitoring for municipal or domestic wastewater dischargers will be conducted during their effluent characterization monitoring. The conditional prohibition established by the Amendment becomes effective 3 years from the date of OAL approval. A stakeholder meeting to discuss implementation of the Basin Plan Amendment, including development of the Pyrethroid Research Plan, is scheduled for 31 May 2019 in the Rancho Cordova office.

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

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 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_mgtplan/

The Basin Plan Amendment (Salt and Nitrate Control Program BPA) with supporting Staff Report and Substitute Environmental Documentation was adopted on 31 May 2018 (Resolution R5-2018-0034). The amendments must be approved by the State Water Resources Control Board, Office of Administrative Law and for those portions subject to the Clean Water Act, by the USEPA. The Adoption Resolution with the final Staff Report and Basin Plan Amendment language can be found at the following location:

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

As staff work to bring the amendments to the State Water Board for consideration, focused stakeholder meetings are continuing through the CV-SALTS Public Education and Outreach Committee and a Clean-up and Abatement Account grant to conduct Early Implementation Management Zone pilot studies in the Turlock and Kings River groundwater basins. Local dischargers and agencies are working together to characterize the basins and provide safe drinking water to users with elevated nitrate in groundwater supplies. An additional grant effort is focused on development of a workplan for the salinity Prioritization and Optimization Study.

CV-SALTS Meeting Participation

On 25 April, Patrick Pulupa, Adam Laputz, Anne Littlejohn, Walter Plachta and Meredith Howard participated in the CV-SALTS Executive Committee meetings. Discussions focused on the Basin Plan Amendment Approval process, program implementation planning, and grant activities relating to the development of Management Zone pilot studies, the Salinity Prioritization and Optimization Study work plan and other Salt and Nitrate Control Program outreach activities.

On 6/7 March and 17/18 April, Anne Littlejohn, Walter Plachta, Adam Laputz and Clay Rodgers participated in steering committee meetings for the two Management Zone Early Implementation grant efforts in the Turlock and Kings River groundwater basins. Meetings focused on developing Management Zone boundaries, evaluating nitrate-impacted areas, reviewing discharger information, and brainstorming potential water replacement and community outreach strategies.

On 26 March and 23 April, Patrick Pulupa and Anne Littlejohn participated in the CV-SALTS Public Outreach and Education Committee conference call meeting. The meetings focused on developing outreach material (e.g. video, factsheets) for the public.

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 identify next steps.

More information on the project can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/index.shtml

United States Bureau of Reclamation (USBR)—Management Agency Agreement (MAA)

MAA meetings with Central Valley Water Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. On 18 March 2019, Anne Littlejohn and James Brownell participated in

the MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP).

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. SWAMP is coordinating with local agencies to develop a source identification and pathogen monitoring plan in 2019 for this portion of the river. To keep the public and local agency partners informed about current conditions, SWAMP is collecting weekly *E. coli* samples in the Lower American River and Steelhead Creek and posting results to an [online map](#).

Post-fire Monitoring in the Butte Creek Watershed

SWAMP is coordinating with other regional board programs and state agencies on post-fire monitoring in areas impacted by the November 2018 Camp Fire in Paradise, CA. Previous monitoring efforts were focused on assessing conditions during and after winter storm events using water quality samples collected from streams and creeks in the Upper Butte Creek Watershed near the town of Paradise. Upcoming efforts will focus on dry-weather water quality and sediment toxicity sampling.

More information on the Central Valley Water Board's SWAMP program can be found at:

https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/

TRIBAL AND DISADVANTAGED COMMUNITY OUTREACH AND ACTIVITIES

Outreach and activities are reported back through February because there were several meetings organized by the State Water Board's Office of Public Participation (OPP) including Tribal Coordinator training. Robert L'Heureux is the Tribal Coordinator for the Central Valley Regional Water Board.

On 8 February Robert L'Heureux attended a Tribal Beneficial Uses Designation meeting hosted by OPP. During this meeting the Tribal Coordinators from the various Regional Water Boards and State Water Board Divisions discussed what stages of implementation each Region/Division is with respect to integrating Tribal Beneficial Use Designations into the respective Basin Plans.

On 19 February Robert L'Heureux participated in a Tribal Beneficial Uses Forum with the Tribal Coordinators from the other Regional Water Boards and State Water Board Divisions that was again hosted by OPP. During this Forum, the Regional and Division Tribal Coordinators worked with the State Water Board's Tribal Liaison (Gita Kapahi) and Office of Chief Counsel legal staff to determine how to integrate Tribal Beneficial Use Designations into the respective Basin Plans.

On 22 February Robert L'Heureux attended a screening of *Tending Nature* the first film in a docu-series of Environmental Justice (EJ) and Tribal Films hosted by the Department of Toxics Substances Control's (DTSC's) Office of EJ and Tribal Affairs. The film focuses on the conservation efforts of the Tolowa Dee-Ni Nation and their work

to protect California's coast from the effects of climate change. The film was followed by a discussion that further facilitated communication among Tribal and EJ representatives from a multitude of California agencies.

On 26 April Robert L'Heureux completed the *Water Board Regional/Divisional Tribal Coordinators Training*. The training included the following: a primer on the legal relationship between the State of California, the Federal Government, and California Native American Tribes; an introductory briefing on tribal history and cultural sensitivity; and a discussion on lessons learned and best practices from a panel that included members of the Gabrieleño Band of Mission Indians-Kitz Nation and the Bishop Paiute Tribe.

On 29 April Robert L'Heureux and Kim Sellards—along with staff from the State Water Board's Office of Enforcement (OE) and Division of Drinking Water (DDW)—participated in California Environmental Protection Agency's (CalEPA's) EJ Task Force Initiative and Local Community Revitalization report-back event for the City of Stockton. Between January and February 2019 Central Valley Water Board staff partnered with staff from OE and USEPA to conduct 30 inspections, primarily at facilities regulated by the Stormwater Industrial General Permit (IGP), in the City of Stockton as part of this EJ initiative organized by CalEPA.

The facilities inspected were identified, in part, by community partners and were highlighted during a November 2018 tour of the city intended to focus on communities particularly susceptible to environmental concerns. Any subsequent enforcement actions resulting from the inspections will be reported on in subsequent EO reports. In addition to the inspections, Central Valley Water Board staff also met with Stockton and San Joaquin County stormwater staff to discuss potential options to alleviate trash and other water quality concerns associated with homelessness in Stockton and the surrounding areas. Central Valley Water Board staff will continue to work with USEPA, CalEPA, and the other state, county, and local agencies to address water quality concerns identified by the community partners in Stockton as part of this initiative.

On 2 May Robert L'Heureux was requested to organize and lead a Tribal Beneficial Uses Working Group for staff working on the designations of Tribal Beneficial Uses in their respective Regions and Divisions.

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 Table 1, below, summarizes the Notices of Applicability that were issued between 1 July 2018 and 30 April 2019.

NPDES Table 1

Facility	General NPDES Permit Number	General Permit Name
Kiefer Landfill Groundwater and Extraction and Treatment Plant	R5-2016-0076-033	General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Waters
Ralston Afterbay Dam Low Level Outlet Project	R5-2016-0076-042	
Patterson Sand and Gravel Facility Dewatering Project	R5-2016-0076-045	
Southport Levee Improvement Project	R5-2016-0076-046	
Balsam Meadows Hydroelectric Project/Eastwood Powerhouse Facility	R5-2016-0076-047	
IPT Tracy Building II Construction Dewatering Project	R5-2016-0076-048	
Gopher Hill Landfill Leachate Disposal (amended NOA)	R5-2016-0076-022	
Sierra Minerals, LLC – Colombo Mine	R5-2016-0076-049	
DWR Hyatt Waterline Project	R5-2016-0076-050	
Nautilus Data Technologies, Inc.; Data Storage Facility	R5-2016-0076-040	
Shasta County New Redding Courthouse Project	R5-2016-0076-052	
El Dorado Irrigation District El Dorado Hills Wastewater Treatment Plant, El Dorado County	R5-2017-0085-002	Municipal Wastewater Dischargers That Meet Objectives/Criteria at the Point of Discharge to Surface Water
City of Lodi, White Slough Water Pollution Control Facility, San Joaquin County	R5-2017-0085-003	

City of Lincoln Time Schedule Order

The Board renewed the City of Lincoln’s NPDES permit in December 2018, which included revised temperature limitations intended to protect salmon and steelhead in the receiving water, Auburn Ravine. During the hearing, concerns were voiced regarding the temperature receiving water limitations. The Board directed staff to work with the California Department of Fish and Wildlife (CDFW) to evaluate the appropriate temperature requirements to protect salmon and steelhead migration/spawning in Auburn Ravine.

Board staff met with CDFW on 14 March 2019. CDFW committed to helping evaluate the temperature requirements to protect salmon and steelhead. On 29 April 2019, Board staff toured Auburn Ravine with Jack Sanchez, President of Save Auburn Ravine Salmon and Steelhead (SARSAS), an interested person who provided comments regarding the temperature receiving water limits.

The City has determined there will be insufficient storage capacity to comply with the newly-adopted temperature receiving water limits and requested a Time Schedule Order (TSO) to evaluate compliance alternatives. The City, as well as, Mr. Sanchez and CDFW are supportive of the TSO. In May 2019, the Executive Officer issued a TSO that puts the City on a schedule to conduct a site-specific study to evaluate the appropriate temperature requirements to protect salmon and steelhead migration/spawning in Auburn Ravine.

DAIRIES/CONFINED ANIMAL FACILITIES

Inspections

The Confined Animal Facilities Program's FY 2018-2019 performance target for dairy facility inspections is 275. Staff have completed 262 inspections to date; therefore, the Program is on track to exceed the performance target. During inspections, staff reviews the facility's nitrogen management plan, mortality management plan, and evaluate production area and ponds for compliance with the Dairy General Order requirements.

OIL FIELDS

1. Wastewater Surface Ponds

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. Notices of Applicability were recently issued for: Incremental Oil and Gas USA Holdings Inc. ponds in the Cymric Oil Field: and, CMO, Inc., ponds in the Chico Martinez Oil Field.

Staff continues to inspect facilities to ensure compliance with the General Orders and to verify the condition of facilities that will be closed. Staff continues to review monitoring reports required by Waste Discharge Requirements and technical reports that request rescission of groundwater monitoring requirements from recently issued Revised Monitoring and Reporting Programs.

2. Spill Response

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Board staff were notified of 16 events in March and April.

- A spill of softened oil field produced wastewater occurred near the Kelso Lease operated by Aera Energy, LLC (Aera), in the McKittrick Oil Field on 5 March. According to OES, a pipeline failure caused the discharge of approximately 20 barrels (bbl(s)) (840 gallons (gals)) of softened produced wastewater used for steam generation into soil. According to Aera staff, the discharged fluids puddled on the ground, and no natural drainage courses or dry stream beds were affected. Aera staff added that staff of the California Department of Fish and Wildlife – Office of Oil Spill Prevention and Response (CDFW-OSPR) inspected the spill site.
- A spill of crude oil occurred on the Tidewater Lease operated by Berry Petroleum, LLC (Berry), in the Midway Sunset Oil Field on 6 March. According to

OES, rainwater flooded a well cellar causing the discharge of approximately 5 bbls (210 gals) of crude oil into a drainage ditch. According to Berry staff, rainwater carried the oil into a dry blue line stream affecting sporadic locations within more than a 1-mile section of the stream bed. On 21 March, Board staff and CDFW-OSPR staff inspected the spill site to observe the post-cleanup conditions of the affected section of the stream bed. CDFW-OSPR staff signed-off on the site cleanup on 21 March.

- A spill of crude oil occurred on the Midway Station operated by Torrance Valley Pipeline (Torrance), in the Midway Sunset Oil Field on 6 March. According to OES, a pump seal failure caused the discharge of approximately 4 bbls (168 gals) of oil to land. According to Torrance staff, most of the discharged fluids were contained within a secondary containment and a small amount left containment. Torrance staff added that cleanup of the spill was completed.
- A spill of crude oil occurred on a facility operated by Aera, in the Lost Hills Oil Field on 8 March. According to OES, a leak on a well header caused the discharge of approximately 5 bbls (210 gals) of crude oil into soil. According to Aera staff, the discharged oil affected previously disturbed areas and no natural drainage courses, or dry stream beds were affected. Aera staff added that staff of CDFW-OSPR, the Division of Oil, Gas, and Geothermal Resources (Division), and Kern County Public Health Department (KCPHD) inspected the spill site. Aera staff said that cleanup of the affected areas was expected to be completed on 8 March.
- A spill of crude oil occurred on the Section 7Z Lease operated by Chevron USA, Inc. (Chevron), in the McKittrick Oil Field on 12 March. According to OES, rainwater flooded a well head cellar containing residual oil causing the discharge of approximately 0.25 gals of crude oil into a dry stream bed. According to Chevron staff, cleanup of the areas affected by the spill has been completed. Chevron staff provided Board Staff with photographs showing before and after cleanup conditions of the affected stream bed. On 10 April, Chevron staff told Board staff that staff of 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 Conoco 8-1 Lease operated by E&B Natural Resources Management (E&B), in the Poso Creek Oil Field on 13 March. According to OES, a pumping unit failure caused the discharge of approximately 2 bbls (84 gals) of crude oil and an unknown amount of wastewater into the ground. An OES update reported that the material discharged with the oil was drilling brine that contains zinc salts and that the discharged fluids were contained within a secondary containment area. According to E&B staff, no natural drainage courses or dry stream beds were affected by the discharged oil.
- A spill of oil field produced wastewater occurred on the Section 21 Lease operated by E&B, in the Poso Creek Oil Field on 14 March. According to OES, a wastewater tank overflowed causing the discharge of approximately 2,011 bbls (84,462 gals) of wastewater into a secondary containment area. According to E&B staff, the cause of discharge might be vandalism and E&B reported the

incident to the Kern County Sherriff Department. E&B staff added that some of the discharged wastewater escaped the containment area, but cleanup was in progress. E&B staff said that no natural drainage courses or dry stream beds were affected by the spill.

- A spill of crude oil and oil field produced wastewater occurred on Section 22 Lease operated by Sentinel Peak Resources California (Sentinel), in the Midway Sunset Oil Field on 22 March. According to OES, a leak from a well conductor caused the discharge of approximately 5 bbls (210 gals) of oil and 250 bbls (10,500 gals) of produced wastewater to land. An OES update of the discharged fluids amount was approximately 10 bbls (420 gals) of oil and 900 bbls (37,800 gals) of wastewater. According to Sentinel staff, the discharged fluids were entirely contained, and no natural drainage courses or dry stream beds were affected. Sentinel staff added that staff of the Division and CDFW-OSPR inspected the spill site.
- A spill of crude oil occurred on Section 15 facility operated by Aera, in the Coalinga Oil Field on 26 March. According to OES, a leak from a group line caused the discharge of approximately 2.6 bbls (109 gals) of oil into a dry waterway. According to Aera staff, the discharged fluids affected approximately 180-feet of a dry stream bed. Aera staff added that cleanup of the affected areas was in progress and that CDFW-OSPR staff were on site inspecting the affected areas. Board staff requested photographs and GPS location coordinates of the affected areas from Aera staff.
- A spill of softened oil field produced wastewater occurred on the Section 36 facility operated by Chevron, in the Kern River Oil Field on 29 March. According to OES, approximately 12 bbls (504 gals) of softened wastewater were discharged into a dry blue line stream bed due to a pipeline failure. According to Chevron staff, no oil was discharged, and accumulating free-standing fluids were recovered using vacuum trucks. Board staff reviewed before and after-cleanup photographs of the affected areas provided by Chevron staff.
- A spill of crude oil and oil field produced wastewater occurred on the Midway Premier Lease operated by E&B, in the Poso Creek Oil Field on 13 April. According to OES, an operator error caused a stock tank to overflow and discharge approximately 50 bbls (2,100 gals) of oil and 10 bbls (420 gals) of wastewater into a secondary containment area. According to E&B staff, the discharged fluids were entirely contained within the secondary containment and no natural drainage courses or dry stream beds were affected. E&B staff added that cleanup of the secondary containment has been completed.
- A spill of crude oil occurred on the Section 15 Lease operated by Aera, in the Coalinga Oil Field on 14 April. According to OES, a well flow line ruptured causing the discharge of approximately 7 bbls (294 gals) of crude oil into a dry stream bed. According to Aera staff, the spill affected the section of the stream bed that was affected by an oil spill that occurred on 26 March. Aera staff added that cleanup of the 26 March spill had been completed. Aera staff stated that approximately 10 bbls (420 gals) of the discharged oil entered the affected stream bed and that flow has been stopped. Aera staff provided Board staff with

photographs of the affected areas. Board staff called Aera staff on 3 May to inquire regarding the status of clean up and will continue to follow-up as necessary.

- A spill of oil field produced wastewater occurred on the 32 Fee Lease operated by Chevron, in the Lost Hills Oil Field on 17 April. According to OES, a leak from a main underground injection line caused the discharge of approximately 167 bbls (7,014 gals) of wastewater into soil. According to Chevron staff, the discharged fluids affected flat areas and no natural drainage courses, or dry stream beds were affected. Board staff reviewed aerial images of the spill site per GPS coordinates provided by Chevron staff.
- A spill of crude oil and oil field produced wastewater occurred on Keen Lease operated by Sentinel, in the Midway Sunset Oil Field on 17 April. According to OES, a natural surface expression caused the discharge of approximately 15 bbls (630 gals) of oil and wastewater into soil within a secondary containment area. According to Sentinel staff, the discharged fluids were entirely contained within the secondary containment area, and no natural drainage courses or dry stream beds were affected. Sentinel staff added that all of the discharged fluids have been recovered.
- A spill of hydrochloric acid-type liquid occurred on the Section 20 Facility operated by McPherson Oil Company, in the Round Mountain Oil Field on 18 April. According to OES, the discharged fluids surfaced from a well while it was being worked. Approximately 30 gals of the fluids were discharged.
- A spill of crude oil and oil field produced wastewater occurred on the Pierce 22 Lease operated by Chevron, in the Kern River Oil Field on 20 April. According to OES, a pipeline leak caused the discharge of approximately 0.5 bbl (21 gals) of oil and 0.5 bbl (21 gals) of wastewater into a dry stream bed. According to Chevron staff, staff of the CDFW-OSPR and staff of KCPHD inspected the spill site and the affected areas. Board staff reviewed pre and post-cleanup photographs of the affected stream bed provided by Chevron staff.

Staff will conduct appropriate follow-up activities and consider appropriate enforcement for the spills.

3. UIC Program

Aquifer Exemptions

During the period from 1 March 2019 through 6 May 2019, staff (Staff) of the Underground Injection Control Unit (UIC) performed the following aquifer exemption activities:

South Belridge Aquifer Exemption –Staff of the State Water Board and Central Valley Water Board are working with Area Energy (Area) to finalize a workplan and a schedule for Area to transition its discharge of produce water from the eastern flank to the western flank of the South Belridge Oil Field

Elk Hills Aquifer Exemption – Staff continue to review and provided comments/concerns to State Board regarding California Resources Corporation’s (CRC) Elk Hills Water

Transition Work Plan and timelines for CRC to cease injection into upper Tulare Formation within the Elk Hills Oil Field (upper Tulare Formation was not exempted by US EPA's Record of Decision for the Elk Hills Oil Field)

Kern River Aquifer Exemption – Staff have worked with the State Water Board to identify potential limitations/conditions to be specified in the Water Board's potential concurrence with the aquifer exemption. Additionally, Staff has continued its discussions regarding potential reductions to the area proposed for the Aquifer Exemption Expansion in the Kern River Oil Field with the Operator, State Water Board, and Division staff

Deer Creek Aquifer Exemption – Central Valley Water Board staff and State Water Board staff have met with the Division to discuss potential impacts to water quality and associated beneficial uses from the proposed exemption.

Round Mountain South Aquifer Exemption – Staff of the Central Valley Water Board and the State Water Board are conducting a concurrent review of an Aquifer Exemption Application for the Olcese Formation in the Round Mountain South Oil Field. Staff's comments/concerns have been submitted for State Water Board for its review.

4. UIC Project Reviews

Staff prepared an evaluation/response to the Division's proposed changes to the UIC review process (utilizing void replacement ratio and aquifer pressure averages) and provided it to State Board for review.

Central Valley Water Board staff met with Summit Energy (Summit) to discuss the results of Summit's recent groundwater sampling event done to evaluate potential water quality impacts from a leaking injection well the Fruitvale Oil Field. The meeting concluded that additional groundwater sampling was necessary and specified a timeline for completion of this activity.

Staff sent its initial questions/concerns to the Division regarding potential impacts to groundwater quality from injection projects in the Asphalto, Poso Creek, Kern River, Round Mountain, and Bowerbank Oil Fields. These questions formed the basis of meetings (face-to-face and conference calls) between the two agencies to discuss potential resolutions.

Staff sent the Division follow-up questions for UIC projects in the Kern River, Round Mountain, Poso Creek, Five Points, Bowerbank, and Paloma Oil Fields. UIC staff issued four no-objection letters to the Division for UIC projects in the Cymric, Edison, and Kern River Oil Fields. Staff sent the Division two no intent to comment letters after completing reviews of one UIC project in the Midway-Sunset Oil Field, and one project in the Coalinga Oil Field (projects were within exempted aquifers with no overlying beneficial use waters).

Staff is currently awaiting responses from the Division/Operator to its questions for 13 UIC projects under review (projects are in the Cymric, Raisin City, South Belridge, Midway-Sunset, Round Mountain, Asphalto, and Poso Creek Oil Fields).

5. Senate Bill 4 (SB-4) Program

Since the last Executive Officer's Report, staff have completed a total of nine SB4 Well Stimulation Treatment (WST) Application package reviews and submitted written comments to the State Water Board. Application packages were reviewed only for locations where "protected groundwater" has been determined to be present. Three Application packages were for the Aera Energy LLC, South Belridge Oil Field. Four Application packages were for the California Resources Elk Hills, LLC Buena Vista Nose Area. One Application package was for the Berry Petroleum, LLC, South Belridge Oil Field. One Application was for the California Resources Elk Hills Elk Hills Oil Field. Seven WST Application packages are under review.

Since the last Executive Officer's report staff have reviewed twelve groundwater monitoring related plans and submitted written comments to the State Water Board. The plans reviewed were as follows: California Resources Production Corporation Addendum 9, Buena Vista Nose area; Berry Petroleum Company LLC Addendum, Group 5 for the South Belridge Oil Field; Berry Petroleum Company LLC Revised Addendum, Group 7 for the South Belridge Oil Field; four Aera Energy LLC Addendums (one 15 wells, one for 14 wells, one for 9 wells, and one for a single well), South Belridge Oil field; Aera Energy LLC Addendum, Lost Hills Oil field; California Resources Production Corporation revised Addendum 8 (two versions), Buena Vista Nose area; California Resources Production Corporation revised Addendum 7, Buena Vista Nose area; and, California Resources Production Corporation revised groundwater monitoring plan for the Kettleman North Dome Oil Field.

Other documents reviewed included: a California Resources Production Corporation's Phase 2 revised Groundwater Monitoring Well Installation Work Plan for the Buena Vista Nose area; a California Resources Production Corporation revised Work Plan for drilling a deep exploratory boring in the Elk Hills Oil field; and a groundwater monitoring exclusion request from California Resources Production Corporation for a portion of section 24Z in the Elk Hills Oil Field. Written comments were conveyed to the State Water Board.

Central Valley Water Board staff are currently reviewing seven groundwater related plans. Staff have reviewed groundwater monitoring reports for the North Coles Levee Oil Field and for the South Belridge Oil field. Draft letters and technical memorandums were submitted to State Water Board staff for review. The reports present groundwater sampling results associated with samples collected from locations where well stimulations were previously conducted. Groundwater monitoring reports for seven other locations are currently under review.

6. Food Safety

On 9 April 2019, Central Valley Water Board staff met with members of a research group from Duke University, RTI, and the Pacific Institute (Duke Study Group). The Duke Study Group is conducting research on produced water and its use in agriculture. During the meeting, the Duke Study Group presented their preliminary findings to Board staff, members of the Food Safety Expert Panel, and the Central Valley Water Board's science advisor.

Central Valley Water Board staff hosted the meeting in the Hearing Room at the Central Valley Water Board's Rancho Cordova office. Thus far, the results of the Duke Study are similar to those conducted in association with the Food Safety Expert Panel.

On 28 March 2019, Central Valley Water Board staff held a conference call with staff of GSI Environmental, Inc. (GSI). GSI has prepared a final draft report of Task 1 of the MOU, which is to compile a list of chemicals of interest that may be found in produced water. Once the report is final, Task 1 of the MOU will be complete. Central Valley Water Board staff, as well as members of the Food Safety Expert Panel, are in the process of reviewing the draft report so that it can be and shared at the public Food Safety Expert Panel meeting scheduled for 9 May in Rancho Cordova.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

Quarterly Stakeholder Meetings

Central Valley Water Board staff holds quarterly 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 July 10th meeting, to be held in Merced, will focus on implementation of CV-SALTS and changes to document availability on the ILRP website. More information regarding the stakeholder meetings can be found on the Central Valley Water Board ILRP website: http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.shtml

Changes to ILRP WDRs Orders

On 5 April 2019, the Central Valley Water Board adopted revisions to the Eastern San Joaquin River Watershed General Order (R5-2012-0116-08) to remove the Notice of Intent submittal requirements for growers applying for Coalition membership. Growers obtain membership by applying directly to the Coalition.

Expert Review of ESJWQC Surface Water Monitoring Framework

State Water Resources Control Board Order WQ-2018-0002 directs the Central Valley Water Board to convene an external expert review of the East San Joaquin Water Quality Coalition's surface water monitoring framework. The review will be conducted as a public process by neutral experts. Steve Weisberg of the Southern CA Coastal Water Research Project is contracted to manage the review, including a process for selecting external expert review panel members and facilitating all meetings. A nine-member Advisory Group consisting of 3 agricultural representatives, 3 environmental protection representatives, and 3 Water Boards representatives has been formed and will hold its first meeting on 14 May 2019.

ILRP Compliance, Outreach & Enforcement

Agricultural Parcel Inspections

The purpose of these 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 will be used to focus and prioritize issuance of 13260 directives to commercial irrigated lands not covered by the ILRP. Growers may obtain coverage by joining an agricultural water quality coalition and enrolling in the associated ILRP general order or enrolling in the ILRP individual general order. The table below presents parcel inspections conducted for each coalition area. Coalition areas not shown had no inspections during the reporting period.

Coalition Area	Parcel Inspections Mar 1 – May 6
Kaweah Basin	100
East San Joaquin, San Joaquin Co & Delta, Sacramento Valley	1105
Total	1205

On-Farm Inspections for General Order Compliance

The purpose of on-farm inspections is for Board staff to visit coalition-enrolled farms and discuss water quality-related issues with growers. These inspections include staff review of the farm evaluations, nitrogen management plans and sediment and erosion control plans. Board staff inspects the site conditions, including potential discharge points to surface waters, pollution management practices, chemical storage and handling areas, and wellhead protection practices.

Coalition Area	On Farm Inspections Mar 1- May 6
Sacramento Valley	3
East San Joaquin	3
Total	6

Water Code Section 13260 Directives

Staff has been evaluating the effectiveness of sending outreach letter after parcel inspections and prior to the issuance of directives. The outreach letter explains the ILRP and the need for enrollment in the program. While some growers have responded to the outreach letters, it has added significant time and resources to the enrollment process and staff will be moving back to sending directives after parcel inspections. These directives are sent to owners of commercial irrigated lands identified through staff inspections of agricultural-zoned parcels and require the recipients to submit a Notice of Intent to obtain either group or individual regulatory coverage within 15 days of receipt of the directive. Coalition areas not shown had no directives mailed during the reporting period.

Coalition Area	Outreach Letter Mar 1- May 6	Directives Mailed Mar 1 – May 6
East San Joaquin		187
Sacramento Valley		1
San Joaquin & Delta	97	
Kaweah Basin		55
Total	97	243

Coalition Enrollment Summary

In past EO Reports, coalition enrollment updates were provided based on NOIs submitted to the Board. During the recent updates of the ILRP General Orders, the NOI requirement for new coalition members was removed to streamline the enrollment process. ILRP General Orders require coalitions to provide enrollment data each July, and Board staff requests a voluntary update in December to ensure accurate information for annual billing. Based on those timeframes, enrollment information in the Executive Officer Reports will be provided twice a year in April and October.

Sacramento River Watershed Coalition Groups

California Rice Commission

Surface water monitoring for the 2018 sampling season concluded on 2 July 2018. The 2018 Annual Monitoring Report for monitoring conducted in 2018 was submitted on 20 December 2018. The 2018 Annual Monitoring Report provides a review of the monitoring activities completed from 1 November 2017 through 31 October 2018. The staff review of the report was completed on 8 April 2019.

Sacramento Valley Water Quality Coalition

On 12 February, the Upper Feather River Watershed Group (UFRWG) submitted a Reduced Monitoring/Management Practices Verification Plan for the Upper Feather River Subwatershed. Staff provided comments to the UFRWG in April.

On 14 March, the Executive Officer issued a clarification that the Sacramento Valley Water Quality Coalition's Nitrogen Management Plan Summary Report Evaluation submittals will be due on 30 November 2019 and 2020.

On 2 and 3 April, the Executive Officer approved the Sacramento Valley Water Quality Coalition's requests to complete management plans for chlorpyrifos in Ulatis Creek and DDD in Grand Island Drain.

On 8 April, the Executive Officer approved the Reduced Monitoring/Management Practices Verification Plan for the Northeastern California Water Association which represents the Pit River subwatershed.

On 1 May, the Sacramento Valley Water Quality Coalition submitted the annual reports for 2018. These include the Surface Water Monitoring Report, Groundwater Monitoring Report, Chlorpyrifos and Diazinon TMDL Report, and the Management Plan Progress Report. These are currently under staff review.

On 3 May, the Executive Officer approved the Sacramento Valley Water Quality Coalition's request to complete the management plan for DDE in Grand Island Drain.

San Joaquin River Watershed Coalition Groups

East San Joaquin Water Quality Coalition

On 1 March, staff received the Coalition's Quarterly Monitoring Data Report for the period July 1 through September 30, 2018.

On 6 March, staff held the 34th Quarterly Meeting with the Coalition representatives to discuss the Groundwater Trend Monitoring Program, Outlier Methodology, and Groundwater Management Plan Amendment. The Coalition provided an update on the management plan monitoring results and outreach in the subwatersheds.

On 22 March, the Executive Officer approved the 2019 Water Year Monitoring Plan Update Addendum. The addendum was in response to the Coalition's evaluation of the potential for risks or threats to water quality during the June through September 2018 monitoring period.

On 3 April, the Executive Officer approved the Coalition's request to extend the 1 March 2019 Groundwater Management Practice Implementation Report deadline until 31 December 2019. The extension will allow the Coalition enough time to develop and receive approval of its outlier identification methodology and prioritize members based on the new methodology.

On 12 April, the Coalition submitted a memo outlining the proposed metric and methods for determining outliers. The draft Outlier Methodology was released on 17 April 2019 with a 30-day public comment period ending on 17 May 2019.

On 1 May, the Coalition submitted revisions and updates to Phase III of the Groundwater Trend Monitoring Workplan to address all deficiencies noted in the staff review memo. The Workplan is currently under staff review.

On 1 May, staff received the East San Joaquin Water Quality Coalition 2019 Annual Report for the monitoring program from October 2017 through September 2018. The report is currently under staff review.

On 1 May, staff received the 2019 Annual Monitoring Report for the San Joaquin Chlorpyrifos and Diazinon TMDL Compliance Monitoring prepared jointly by the East San Joaquin Water Quality Coalition and the Westside San Joaquin River Watershed Coalition. The report is currently under staff review.

San Joaquin County and Delta Water Quality Coalition

On 2 April, the 30 November Nitrogen Management Plan Summary Analysis Report for the 2017 crop year was approved.

Westside San Joaquin River Watershed Coalition

On 1 March, the Executive Officer approved 26 management plan completion requests. Three requests for Orestimba Creek are still under review.

On 15 March, the Executive Officer approved the Western San Joaquin River Watershed Coalition's 2019 Monitoring Plan Update (MPU). The MPU provides detailed plans for surface water monitoring for the period March 2019 through February 2020.

On 3 May, the Executive Officer approved a one-month extension request to submit the Coalition's revised Groundwater Quality Trend Monitoring Program. Summer 2019 monitoring will be conducted as planned, and 2018 monitoring data was submitted on time.

Grassland Drainage Area Coalition

On 4 September 2018, the Grassland Drainage Area Coalition's Groundwater Quality Trend Monitoring Workplan and Addendum were conditionally approved by the Executive Officer. The conditions include the timing of results reporting, on-going evaluation of the sufficiency of the monitoring network, and consideration of network expansion in areas with lesser coverage. Groundwater quality trend monitoring commenced in the fall of 2018. The results of monitoring will be reported in the 2018 Annual Monitoring Report.

Tulare Lake Basin Coalition Groups

Kern River Watershed Coalition Authority

On 21 March, staff met with representatives of the Kern River Watershed Coalition Authority to discuss staff comments on the Coalition's revised Surface Water Monitoring Plan (SWMP). An updated SWMP was submitted by the Coalition on 19 April 2019.

Westlands Water Quality Coalition

On 5 March, staff met with Westlands Water Quality Coalition representatives for a Quarterly update meeting to discuss Groundwater Quality Trend Monitoring results, development of the Coalition's Surface Water Monitoring Plan, outreach activities, and upcoming submittals.

On 24 April, staff met with Westlands Water Quality Coalition representatives to discuss Groundwater Quality Trend Monitoring results. Some of the primary issues discussed included Fall 2018 monitoring results, expansion of the GQTM well network, and 2019 groundwater monitoring.

On 1 May, the Westlands Water Quality Coalition submitted a 2018 Water Year Management Plan Progress Report. The report includes an update of the surface water and groundwater management plans, a summary of outreach and education activities during the 2018 water year, and a summary of current and newly implemented management practices.

Regional Collaborative Groups

On 15 April, staff met with representatives of the Central Valley Groundwater Monitoring Collaborative (CVGMC) to discuss expectations for the 2019 groundwater monitoring activities, future submittals, and the potential consolidation of certain reporting elements required under the ILRP.

On 1 May, staff met with representatives of the Southern San Joaquin Valley Management Practices Evaluation Program (MPEP) Group to receive updates on the MPEP Implementation and discuss recent changes to the General Order for growers in the Tulare Lake Basin (R5-2013-0120-07).

Other Projects

Data Management

The Data Management Team continues to route water quality monitoring data through SWAMP for transfer to CEDEN and is current with its CEDEN loads. CEDEN transfers occur approximately once per month. After ILRP staff performs a completeness check, SWAMP staff loads the monitoring data to CEDEN. Three coalitions send data directly to the Central Valley Regional Data Center (CVRDC) for transfer to CEDEN in May each year. The date ranges for Coalition data available in CEDEN are shown in the table below. Staff will continue to report on this effort.

The Data Management Team (DMT) completed the 2014 through 2017 Buena Vista Coalition field water quality data for submittal to SWAMP. The field data is pending at SWAMP. Once SWAMP loads the field EDDs, the DMT will submit the associated chemistry and tox EDDs so SWAMP can complete the loading.

The DMT completed Kaweah Basin Water Quality Association field data loading for the period 2014 through 2018. The data is pending at SWAMP. Once SWAMP loads the field EDDs, the DMT will submit the chemistry and tox data so SWAMP can complete the loading.

Staff brought to DMT's attention that several Westside San Joaquin River Watershed Coalition's site names were not using several site-name designations correctly in the CEDEN database. The DMT Coordinated with the Central Valley Regional Data Center to revise the database.

Available Data for Each Coalition in CEDEN	Date Range	
California Rice Commission	Jul 2004	- Jul 2016
Westside San Joaquin River Water Quality Coalition	Sep 2008	- Aug 2017
Sacramento Valley Water Quality Coalition	Jul 2004	- Jun 2017
Grasslands Bypass Project	Oct 1995	- Jun 2017
East San Joaquin Water Quality Coalition	Jul 2004	- Sep 2017
San Joaquin County and Delta Water Quality Coalition	Aug 2004	- Sep 2017
Westlands Storm Water Coalition	Nov 2008	- May 2017

Grassland Bypass Project

On 25 April 2019, the Annual Monitoring Report for the Grassland Bypass Project was submitted to the Central Valley Water Board. The report covers surface water monitoring conducted from 1 January through 31 December 2019. The report is currently under staff review.

Rice Pesticide Program

Thiobencarb monitoring for the 2018 sampling season concluded on 3 July 2018. The results of monitoring were submitted in the 2018 Annual Monitoring Report on 20 December 2018 and followed by the submittal of management practice recommendations for the 2019 sampling season on 7 January 2019. The recommended management practices for 2019 were approved by the Executive Officer on 22 January 2019.

CANNABIS PROGRAM

General Order Enrollment and Developments

Approximately 736 cannabis cultivators had coverage under General Order No. R5-2015-0113 (Regional General Order) when the Statewide General Order went into effect on January 1, 2018. Staff have completed, to date, 100 transfer applications to the Statewide General Order. Additionally, 364 Notice of Termination requests have been submitted, and staff have reviewed and approved 322, largely from Calaveras county which enacted a commercial cannabis cultivation ban in the spring of 2018. Table 1 provides a summary of the active enrollments to date in the Regional General Order.

Table 1

County	Tier 1 Enrollment	Tier 2 Enrollment	Tier 3 Enrollment	Total Active Enrollments
Calaveras	94	111	32	237
Yolo	11	13	2	26
Lake	20	18	1	39
Nevada	7	1	-	8
Sierra	2	-	-	2
Plumas	1	-	-	1
Mariposa	-	-	-	-
Total	135	143	35	313

Staff have been actively reviewing and processing enrollments under the Statewide General Order and have been continuing to conduct outreach to ensure Region General Order enrollees' transition to the Statewide General Order in a timely manner. Table 2 provides a summary of the Statewide General Order enrollments in the Central Valley Region to date.

Table 2

County	CE*	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	2	9	2	-	1	2	-	16
Contra Costa	1	-	-	-	-	-	-	1
Fresno	4	-	-	-	-	-	-	4
Lake	7	52	2	-	37	1	-	99
Merced	4	-	-	-	-	-	-	4
Nevada	8	127	3	-	1	-	-	139
Sacramento	117	-	-	-	-	-	-	117
Shasta	7	-	-	-	-	-	-	7
Siskiyou	4	-	-	-	-	-	-	4
Sierra	-	2	-	-	-	-	-	2
Kern	1	-	-	-	-	-	-	1
Solano	2	-	-	-	-	-	-	2
Stanislaus	11	4	-	-	1	-	-	16
Tulare	1	-	-	-	-	-	-	1
Yuba	1	-	-	-	-	-	-	1
Yolo	1	14	-	-	43	-	-	58
Total	171	208	7	0	83	3	0	472

*CE: Conditionally exempt, enrolled in the Statewide Cannabis Waiver of Waste Discharge Requirements.

Outreach

On March 22nd, staff conducted an outreach event in Yolo county in coordination with the Yolo Cannabis Coalition.

On March 26th, staff participated in an outreach event with North Coast Regional Board staff in Mendocino county.

On April 15th, staff met with personnel from the City of Colusa to discuss the Water Board’s role in the overall cannabis permitting and licensing process.

Compliance and Enforcement

Compliance

On March 14th, staff conducted three permit compliance inspections in Yolo county.

On March 20th, staff conducted three permit compliance inspections in Lake county.

On April 30th, staff conducted four permit compliance inspections in Nevada county.

Upcoming Inspections

On May 15th, staff are scheduled to conduct 4 permit compliance inspections in Yolo county.

On March 20, staff are scheduled to conduct three compliance inspections in Lake County.

Rancho Cordova staff are coordinating with CDFW wardens to conduct termination inspections in Calaveras County on an ongoing basis. Staff are planning to do inspections two days per month based on the wardens' availability. These inspections are done with the consent of the property owners and started in mid-February and should run through June. To date staff have completed approximately 12 termination inspections.

Enforcement

On April 11th, staff conducted two enforcement inspections in Lake county with personnel from the California Department of Fish and Wildlife and the State Water Board's Division of Water Rights.

On May 5th, staff participated in an enforcement inspection in El Dorado county coordinated through the Sheriff's office.

Staff have begun coordination efforts with agencies in the southern portion of the Central Valley Region to perform enforcement-oriented inspections on cannabis cultivation sites that pose threats to water quality.

NON-POINT SOURCE (NPS) PROGRAM

Clear Lake Nutrient Control Program Update

Staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations, as a follow-up to the 18 July 2018 Board workshop. Staff is in the process of drafting and sending enforcement orders to each responsible party to obtain this information. On 9 January 2019, a 13267 Order was issued to the Irrigated Agriculture responsible party. Staff will continue to send Orders to the other responsible parties throughout early 2019. In April 2019, staff updated the Clear Lake Nutrient TMDL webpage to include the 13267 Order issued to Irrigated Agriculture, the 13267 Orders issued to responsible parties in 2016, and each response received for the 2016 Orders.

Staff has experienced delays in achieving milestones, including sending and obtaining information from responsible parties, due to the Mendocino Complex fire, which affected much of Lake County. Post-fire monitoring activities and meetings have been attended by staff to stay updated on erosion control management practices and potential impacts to the lake.

On 19 April 2019, Jennifer LaBay presented at the Technical Subcommittee for the Blue-Ribbon Committee for the Rehabilitation of Clear Lake. The presentation was an

overview of the Clear Lake Nutrient TMDL and an update on the status and next steps. The next Technical Subcommittee meeting is scheduled for 17 May 2019. The next Blue-Ribbon Committee Meeting is scheduled for 5 June 2019. Meeting details will be 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](#).

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 early fall 2019.

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

CYANOBACTERIA BLOOMS UPDATE

Cyanobacteria and harmful algal blooms (HABs) have become a common occurrence in water bodies across the state and the U.S. This issue has led to the question “*Are harmful algal blooms affecting our surface waters?*” In 2016, the California Water Quality Monitoring Council developed the California Harmful Algal Blooms Portal ([HABs Portal](#)) on their [My Water Quality](#) webpage.

The purpose of the HABs Portal is to provide information to the public in an easy-to-understand manner on the health and environmental effects of HABs in California’s lakes, reservoirs, rivers and estuarine waters. The portal includes information such as how to identify and report a bloom, healthy habits the public can practice that will protect themselves and their pets from a HAB, and a web page on control and treatment of blooms for water resource managers. The State Water Board’s Surface Water Ambient Monitoring Program implements this Freshwater HAB (FHAB) Program. The Central Valley Water Board participates in the state’s FHAB Program by investigating and responding to reports of suspected HABs.

Calendar Year 2019 – Central Valley HAB

The cyanobacteria bloom season has begun in the Central Valley. The State Water Board’s HAB Satellite tool is observing several water bodies within our region with increasing cyanobacteria abundance, and blooms are being observed by reported in three Central Valley counties - Calaveras, Madera, and Merced. A summary of cyanobacteria blooms for the period of March and April 2019 is provided in Table 2.

Table 2. Cyanobacteria Bloom Summary: March – April 2019

Number of Suspected Blooms Investigated since previous EO Report:	5
Number of Confirmed Blooms since previous EO Report:	3
Number of Continuing Blooms from previous EO Report:	1
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report:	4
Number of Human Illnesses Reported since previous EO Report:	0
Number of Animal Impacts Reported since previous EO Report:	0

GRANTS

Clean Water Act §319(h) Nonpoint Source Grant Solicitation:

Approximately \$4 million is available for the 2019 solicitation 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. In addition, approximately \$1 million from the Timber Regulation and Forest Restoration Fund will be used to address post-fire recovery needs in areas affected by fire, as indicated in the emergency proclamations by the Governor, the 2019 Nonpoint Source Program Preferences include post-fire recovery projects. The 2020 solicitation will be coming out later this year.

For more information, please visit the NPS website: https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml.

Update:

This grant solicitation has ended for the 2019 application cycle. Applications were received in December 2018 and for Region 5, one post-fire recovery application was submitted by Lake County Watershed Protection District, Department of Water Resources for the Scotts Valley Post-Fire Recovery Storm Water Project. Projects will be selected in April 2019.

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 8/22/2022)

Timber Regulation and Forest Restoration Fund On-going Grants:

Ponderosa Way Road Assessment and Sediment Reduction Plan (Phase 1) (\$300,000)

The Resource Conservation District of Tehama County will prepare an Action Plan to reduce sedimentation from two miles of Ponderosa Way and another eight miles of roads upslope and/or downslope of Ponderosa Way within the Battle Creek Watershed, implement one project to reduce sediment inputs to Battle Creek and prepare CEQA document for future road fixes. (Closing 4/30/2019) There is currently a time extension request waiting for final approval which will push the closing date to 4/30/2020.

Ponderosa Way Road Assessment and Sediment Reduction Plan Phase II (\$500,000)

The Resource Conservation District of Tehama County will conduct a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). This project will result in a sediment reduction plan for the Project Area with one demonstration project in the Project Area. (Closing 4/30/2020)

Battle Creek Watershed Based Plan (\$492,438)

The Battle Creek Watershed Conservancy will develop a Watershed-Based Plan and implement a sediment reduction demonstration project in the Battle Creek Watershed. (Closing 6/30/2019)

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. (Closing 4/20//2020)

Roadside Fuel Reduction (\$370,000)

Yuba County will construct 185 acres of shaded fuel breaks along 30 miles of roadways in the Yuba foothill state recreation area. This project will result in enhanced fire safety and prevent water quality degradation from wildfires. (Closing 4/30/2020)

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 North Fork Battle Creek. The project will include a road assessment on approximately 23 miles of county roads, a training workshop to provide road crews with techniques to perform an effective implementation project along Rock Creek Road, and the preparation of CEQA documents. (Closing 10/31//2021)

North Butte County Road Inventory and Improvement Project (\$375,000)

The Resource Conservation District of Butte County will conduct a road inventory and prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), prepare a CEQA document, implement road upgrades along four (4) miles of Powellton Road within the Butte Creek watershed, and hold two public workshops. (Closing 2/28/2021)

Deer Creek North Yuba River Watershed Assessment and Sediment Reduction Plan (\$255,100)

The Tahoe National Forest will prepare an Action Plan to reduce sedimentation from native surface roads located within the Deer Creek and North Yuba watersheds, prepare a CEQA document, implement road upgrades within the Deer Creek watershed, and provide public outreach. Due to Forest Service policy, the Tahoe National Forest has refused to accept the Grant Agreement. Therefore, this grant is currently in the process of being transferred to the "American Rivers" organization for

execution. (proposed eligible start date: 05/01/2019; proposed closing date: 02/28/2019)
(Not Executed)

American River Headwaters Restoration (\$757,000)

The American River Conservancy is planning to thin approximately 200 acres of merchantable timber under a CAL FIRE Fire Prevention Pilot Project Exemption and associated road maintenance. A Draft Agreement has been developed and the Final Agreement and execution are expected this month (May 2019). (Not Executed)

GROUND WATER STRATEGY

Significant actions under the Central Valley Water Board’s Groundwater strategy include the development of a Salt and Nitrate Management Plan, participation in IRWM planning actions, and implementation of the ILRP, Bovine, and other CAF permits. These actions are largely complete. Workgroups such as the Groundwater Monitoring Advisory Workgroup (GMAW) have not met since 2012, and other elements of the strategy have been superseded by requirements of the Sustainable Groundwater Management Act (SGMA). Further updates on the Groundwater Strategy will be provided as part of updates to the Board consistent with CV-SALTS reporting requirements.

PUBLIC OUTREACH¹

Clint Snyder and Angela Wilson participate in the Governor’s monthly Forest Management Task Force meetings and the Forest Regulations Working Group meetings. These groups were established in response to Governor Brown’s executive order issued in May of 2018 directing agencies and interested parties to come together to achieve a number of goals related to reducing wildfire risk across the state. The Regulations Working Group is currently looking at options to streamline permitting for conducting fuels removal activities to facilitate such activities especially for small landowners.

On 4 March, Omar Mostafa attended the Three Rivers CSD Utility Basics Workshop. The purpose of the workshop was to provide information regarding basic utility and water/wastewater operations to individuals who work or are interested in working in those fields. Omar Mostafa presented an overview of the State and Regional Water Boards and answered questions from the public in attendance.

On 4 March, Bethany Soto participated in a conference call with the Tulare Basin Integrated Regional Planning Effort, which is a group of Integrated Regional Water Management (IRWM) practitioners from the Tulare – Kern Funding Area. The focus of the meeting was the planning of the Tulare-Kern Funding Area Pre-Application workshop in April for Proposition (Prop) 1 Implementation Grant, Round 1 funds through the Department of Water Resources (DWR).

¹ In the coming months, this section of the EO Report will be integrated with Tribal and Disadvantaged Community Outreach reporting as the Board develops additional tools to consistently catalogue outreach activities.

On 5 March, Bethany Soto participated in a conference call with the Poso Creek IRWM. The meeting focused on the status of the Disadvantaged Community Involvement Program (DACIP) activities, the schedule of events for DWR's Proposition 1 Implementation Grant among other funding opportunities, and project selection for Prop 1 and the Disadvantaged Community (DAC) Needs Assessment funding.

On 6 March, Forest Activities Program staff participated in a regulatory agencies panel for the California Forester's Association. During the meeting, groups of 6 attendees were given 20 minutes to discuss topics they were most interested in with individual panel members. Topics included using the state's timber harvest planning EIR-equivalent process to get forestland restoration accomplished.

From 7 March to 5 April, the Central Valley Water Board's Anthony Toto (Fresno) and John Murphy (Rancho Cordova) were deployed to the Woosley Fire Debris Removal Operations Center (DROC) in Calabasas, CA for a second deployment. On temporary loan to CalRecycle and CalOES, Anthony and John served as Division Supervisors for field operations in the mid-Malibu area. John supervised debris removal operations from 5 to 8 task forces and cleared over 40 sites. Anthony supervised erosion control task forces and conducted State-certified final inspections (117 final inspections). The days were long (12 to 16 - hour days), but it was a very rewarding experience working with homeowners as they work to rebuild both their homes and lives after a devastating experience. Anthony and John both hope to continue their support of debris removal operations in any capacity possible in both the Malibu and Paradise areas.

On 11 March, Zaira Lopez-Narvaez attended the Madera Integrated Regional Water Management (IRWM) group meeting held in Madera. Members discussed various ongoing business items such as the financial report, IRWM Plan Update, Proposition 1 Disadvantaged Community Involvement Funding for the Mountain Counties and San Joaquin Valley regions, Sustainable Groundwater Management (SGMA) and Round 1 Grant projects. The meeting focused on discussing the Madera IRWM Plan Update which was rejected by DWR because not all the required sections were provided in the updated plan. The consultant, QK, agreed to revise the document and resubmit it to DWR for approval.

On 12 March, Forest Activities Program staff participated in regular meeting of the Board of Forestry's Rangeland Management Advisory Committee (RMAC). Staff provided additional details on the proposed Federal Nonpoint Source permit being developed by the Central Valley and Lahontan Water Boards. Specifically, the RMAC expressed interest in and concerns regarding the possibility of including grazing allotments in the permit.

On 14 March, Bethany Soto participated in a conference call with the Southern Sierra Regional Water Management Group. The meeting discussed the Disadvantaged Community Involvement Program (DACIP) activities and the project processes and financing options when applying for Prop 1 funds with DWR. The group's closing thoughts were brainstorming ideas on prioritizing project proposals for funding opportunities such as Prop 1 and the U.S. Bureau of Reclamation's WaterSMART grants.

On 15 March, Susan Fregien and Dana Kulesza participated in a field tour of the Westside San Joaquin River Watershed Coalition's monitoring locations on Orestimba Creek to help identify access options.

On 20 March, Bethany Soto attended the Upper Kings Basin IRWM Authority Advisory Committee Meeting. The meeting focused on the status of their planning and implementation contracts of the Prop 1 Implementation and the Prop 1 DACIP grants. The group discussed project additions to the IRWM Plan Project List and the Stormwater Resources Plan Project List to be approved by the Board of Directors.

On 25 March, Monique Gaido, Engineering Geologist, visited University Preparatory School in Redding to teach 6th grade students about water quality, the role of the Regional Water Quality Control Board in protecting water quality, and water quality field testing. Sixth grade science curriculum covers all aspects of Earth Science and this lesson served as part of the water quality unit. Mrs. Gaido offered this lesson to six classes totaling 155 students.

On 25 March, Russell Walls attended the Kings County Environmental Crimes Task Force meeting to discuss potential and open cases, learn from each other about common issues, and strategize on how to better support the enforcement of environmental crimes. Circuit Prosecutor Nick Gohn facilitates the meeting.

On 25 March, Alex MacDonald presented at the Association of Environmental Health and Sciences conference in San Diego as part of a 5-person team providing a 4-hour workshop on Per and Polyfluorinated Alakyl Substances (PFAS). The workshop was attended by over 70 participants. Our coverage of PFAS included chemical attributes, treatment, regulatory, risk and legal aspects of PFAS.

From 25 March to 28 March, Alex MacDonald attended the Interstate Technical and Regulatory Council meetings in Boston. The first two days were spent working with the In-situ Groundwater Remediation Optimiaztion Team where finalization of their Technical and Regulatory Guidance Document was taking place. The draft document will be sent for outside review this summer. The second two days were spent with the Per and Polyfluorinated Alakyl Substances (PFAS) team responding to comments received from outside review of the draft Technical and Regulatory Guidance Document. That document provides an overview of PFAS, including chemistry, naming conventions, fate and transport, history and use, regulations, risk assessment and AFFF. The final version will be available by the end of the year and on-line training will be provided free of charge.

On 26 March, Alisha Wenzel, Adam Laputz, Meredith Howard, Kim Sellards, Robert L'Heureux, Anne Littlejohn, Elizabeth Lee and Richard Muhl met with Stockton residents and a neighborhood watch group to discuss potential options to alleviate trash and other water quality concerns associated with homelessness in Stockton and the surrounding areas.

On 26 March, Alisha Wenzel, Adam Laputz, Meredith Howard, Kim Sellards, Robert L'Heureux, Anne Littlejohn, Elizabeth Lee and Richard Muhl met with Stockton residents and a neighborhood watch group to discuss potential options to alleviate trash and other water quality concerns associated with homelessness in Stockton and the surrounding areas.

On 2 April, Chris Jimmerson attended a Fish and Wildlife Moccasin Creek fish hatchery tour located on Moccasin Creek. Last year the Moccasin Creek Fish hatchery was flooded and destroyed by the runoff. Now the hatchery is back online. Staff viewed the hatchery settling ponds for the treatment of wastewater.

On 9 April, Anthony Toto attended the Fresno Environmental Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. It was announced that in Mid-June Jared Blumenfeld, Secretary for Environmental Protection will visit the 5F area for Tulare IVAN start up. There will be an environmental justice tour and then the initial Tulare-Identifying Violations Affecting Neighborhoods (IVAN) group meeting.

On 9 and 10 April, several staff attended the CA Department of Pesticide Regulation's Symposium on Best Management Practices. There were many interesting and informative presentations provided over the two-day event.

On 10 April, Terry Bechtel participated in an Almond Board field day with East San Joaquin Coalition representatives to answer questions about the new drinking water well monitoring requirements.

On 10 April, Anthony Toto participated in a 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. Anthony forwarded on the complaint line and Spanish resources for the San Joaquin Valley Air Pollution Control District (<https://www.valleyair.org/Home.htm>) to the chair Veronica Aguirre. On 1 May, Anthony forwarded an inspection report on the Avenal landfill and was thanked by Veronica for the fast response.

On 12 April, Christine Joab, Jennifer LaBay, and Alice Lopes attended the quarterly meeting of the California Cyanobacteria and Harmful Algal Bloom Network. This is a public meeting where Network members discuss the continued development and implementation of the statewide Freshwater HAB Program. Topics discussed included a presentation by the City of Watsonville on the remediation activities conducted at Pinto Lake to prevent or minimize cyanobacteria blooms and a presentation by the State Water Board's Freshwater HAB lead on a new work effort to develop a monitoring strategy for the state.

On 17 April, Forest Activities Program staff participated in a meeting of the Technical Advisory Committee (TAC) for the Battle Creek Watershed Based Plan (WBP). The current draft of the WBP was reviewed and the TAC given opportunity to provide feedback. The final plan will be completed by 1 June 2019.

On 17 April, Forest Activities Program staff provided a presentation on lab sampling capacity needs in support of newly available passive and pumping sampler technologies to the Environmental Laboratory Technical Advisory Committee (ELTAC). The presentation focused on the advancement of new sampling technologies available to increase our understanding of what chemical contaminants (currently focused on pesticides) are in our surface waters. Several executives for commercial laboratories in the state are a part of the ELTAC, and our presentation was aimed to communicate our need for new lab methodologies (developed by the USGS) to be available through contracts with commercial labs.

On 17 April, Zaira Lopez-Narvaez attended the Tuolumne-Stanislaus Integrated Water Management Authority Watershed Advisory Committee (WAC) meeting in Sonora. The meeting focused on reviewing the Disadvantaged Community Involvement (DACI) Technical Assistance Chapter; members thoroughly discussed and edited the document. Members also provided updates on behalf of their agencies.

On 18 April, Doug Patteson attended a dairy tour sponsored by the California Air Resources Board. The tour was to demonstrate technology to reduce air emissions of methane and ammonia from anaerobic dairy ponds, without causing an increase in leaching of nitrate to groundwater. The product is being evaluated by researchers from the University of California, Davis.

On 25 April, Scott Hatton presented at the CV-SALTS Executive Committee Meeting. The presentation focused on the Waste Discharge Requirement permit writing program for the Region and how CV-SALTS could impact the program's workload in the coming fiscal year.

On 29 April, Forest Activities Program staff participated in a meeting with the UC Davis Extension, State Board, Lahontan and North Coast Water Boards for further discussion on revisions to the rangeland management water quality control plan. UC Davis Extension intends to make the revised rangeland management water quality training available in an online format so that it can be a year-round available resource for managers. The focus for this meeting was how this effort can inform the development of the Federal Nonpoint Source permit.

On 30 April, Forest Activities Program staff presented at the USFS Regional Hydrologist meeting in Sacramento. Staff presented information on the proposed Federal Nonpoint Source permit being developed by the Lahontan and Central Valley Water Boards, as well as on the results of our recent evaluation of best management practices used to protect water quality on both USFS and BLM projects.

On 30 April, Janis Cooke participated in the Delta Stewardship Council -Delta Independent Science Board's Monitoring Enterprise Review Workshop. The objective of the Delta Independent Science Board's review is to develop recommendations that may improve how current and future monitoring programs are coordinated and meet decision-making and adaptive management needs.

On 30 April, Adam Laputz, Meredith Howard, Alisha Wenzel, Elizabeth Lee and Kim Sellards met with Stockton and San Joaquin County stormwater staff to inform them of the citizen concerns discussed at the 26 March meeting, and the draft press release written by the Water Board staff regarding high *E. coli* levels in the Stockton waterways.

On 8 May, Adam Laputz, Sue McConnell, Robert Ditto, and Rebecca Tabor attended the Shasta Tehama grower meeting and provided a presentation regarding the new ILRP requirements and an update on enrollment enforcement activities.

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.

Staff worked with the POTW/MS4 group to secure funding from the Delta Regional Monitoring Program (DRMP) Steering Committee to develop a Quality Assurance Project Plan (QAPP) and fund program implementation costs (e.g. – planning, contracting, start-up mobilization, etc.). The Aquatic Science Center (ASC) has provided the DRMP Technical Advisory Committee with a draft QAPP and Sampling and Analysis Plan for discussion at their 9 May 2019 meeting. Edits to the draft QAPP and Sampling and Analysis Plan may be made based on comments received during the discussion and prior to submittal to the Surface Water Ambient Monitoring Program for approval.

The ASC submitted an application on behalf of the DRMP on 26 October 2018 for a Proposition 1 Delta Science Proposal Solicitation, which includes two years of the approved Work Plan and additional analyses including non-targeted analysis, invitro bioassays, and sampling for microplastics. Funding for this proposal was not granted, so the expanded analyses will not be included in the QAPP and Sampling and Analysis Plan.

The State Water Board adopted a Resolution to amend the Supplemental Environmental Project (SEP) Policy to allow penalties less than \$100,000 to be contributed to a SEP program which funds DRMP projects that have been fully vetted. This provides a means for smaller penalties to aggregate and fund previously unfunded DRMP work. Ambient CEC sampling is planned to begin in FY 2019-2020 with funding for the Work Plan for FY 2019-2020 to be discussed by the DRMP Steering Committee.

E&J Gallo Winery, Fresno County

Over the past several months, Regional Board staff have met with Gallo's representatives to discuss the groundwater assessment downgradient of the winery. In

March 2019, Gallo submitted a Groundwater Investigation Work Plan. On 2 April 2019 and 19 April 2019, Regional Board staff sent to Gallo a review letter of its *Composting Operations Characterization Report* and a directive to implement its approved *Vadose Zone Monitoring Plan* to include data collected from this year's fall crush and stillage period. These three items were discussed further with Regional Board staff and Gallo's representative's during a meeting on 7 May 2019.

**PERSONNEL AND ADMINISTRATION
STAFFING UPDATES**

March 1, 2019 – April 30, 2019

Promotion:

Christine Hernandez – Staff Services Analyst

Leave of Absence:

Katie Gilman – Associate Governmental Program Analyst

Retirement:

None

Authorized Positions: 261.7

Vacant Positions: 10.2

Separations	New Hires
None	Paul Wadding – Water Resource Control Engineer Bryan Botsford – Engineering Geologist Phillip Carter – Environmental Scientist

Temporary Help Positions

Separations	New Hires
Courtney Chagolla – Scientific Aid	Alice Lopes – Scientific Aid Saranya Elankovan – Student Intern Theresa Westphal – Scientific Aid Shannon Roy – Scientific Aid Lee Barclay – Scientific Aid Rajveer Kaur – Scientific Aid Deepika Singh – Scientific Aid Heaven Collins – Scientific Aid

TRAINING UPDATE

March 1, 2019 – April 30, 2019

Class Title	Number of Attendees
16-Hour HAZWOPPER Upgrade Training	1
4-Hour Field Safety Training	1
Basic Supervision for Supervisors - Part II	1
California Basic Inspector Academy	2
Contract Manager Training	1
Defensive Driver Training	8
DPR Mitigation Symposium	1
Editing	12
EEO: Workplace Rights and Responsibilities	75
EOC Management & Operations	1
Field Safety Training	6
Fluvial Geomorphology	26
Geosynthetic Line and Cover Design	28
HAZWOPPER 40 Hour	1
Highly Effective Professional Writing	10
ICS/EOC Interface	1
Maintaining a Respectful Work Environment	2
Meeting Facilitation Skills for Waterboards Staff – Level 1-2	2
Mitigation of Pesticides in Surface Water in California Agriculture Symposium	12
Practical Stats	1
Reservoir Geomechanics 202	1
SCI225 Spatial Awareness	1
SCI310 Geostatistics and Data Analysis	1
SEMS/ICS Training	10
Tribal Coordinators Training	1
Unconventional Reservoir Geomechanics 208	4

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, Am. 1	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services – Redding Office	05/24/2018	09/30/2020	\$60,000
19-046-150	TBD	Fixed wing aircraft - Aerial surveillance services	5/1/2020	4/30/2023	\$60,000
WATER QUALITY STUDY/PLANNING					
16-046-150, Am. 1	UC Davis	Study to develop reference toxicity values for herbicides/fungicides present in Delta for native algal species.	TBD	02/12/2020	\$375,000
16-074-150, Am. 2	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	06/30/2019	\$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
17-065-150	USGS	Non-point source aquatic passive sampling study plan (Phase 2).	06/30/2018	03/31/2020	\$190,000
17-066-150	Dept. of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	03/31/2020	\$154,055
17-069-150	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	06/30/2020	\$135,500
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

WATER QUALITY STUDY/PLANNING (continued)					
CONTRACT NUMBER	CONTRACTOR NAME	DESCRIPTION	START DATE	END DATE	AMOUNT
18-055-150	Moore Twining Associates, 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	03/31/2020	\$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	03/31/2020	\$400,000
18-071-150	Basic Laboratory, Inc.	Emergency lab services – Carr Fire	07/26/2018	06/30/2020	\$110,000
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
18-088-150	Alpha Laboratories, Inc.	Emergency laboratory analysis of water samples – Mendocino Complex Fire.	11/1/2018	10/31/2018	\$70,000
19-002-270	Merced County Department of Public Health	To revise and/or modify existing online proprietary reporting tools for preparing annual reports and waste management plans developed for dairy operations to be used by bovine operations.	TBD	03/31/2022	\$300,000
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.	TBD	03/31/2022	\$510,000
19-004-150	TBD	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	TBD	03/31/2022	\$95,000
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	TBD	3/31/2022	\$525,000

FUTURE BOARD ACTIVITIES

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

AUGUST 2019 BOARD MEETING

NPDES PERMITTING

- Yosemite National Park, El Portal WWTF Renewal

STORM WATER AND WATER QUALITY CERTIFICATION PROGRAM

- South Sacramento Habitat Conservation Plan – General Order and Programmatic Certification for Regional General Permit 15 and Letters of Permission (401 Unit)

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Beale Air Force Base WWTF (New WDRs)
- Sacramento Rendering (Revised WDRs)
- Tomatek Tomato Facility (Revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Avenal Landfill (Revised WDRs)

OCTOBER 2019 BOARD MEETING

NPDES PERMITS

- Town of Discovery Bay WWTP Renewal
- City of Stockton RWCF Renewal
- McClellan AFB GETS Rescission
- Municipal General Order Amendment
- Wheelabrator Shasta Energy Renewal
- Anderson WPCP Renewal
- Merced WWTF Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Biggs WWTF (New WDRs)
- Tejon Mountain Village (New WDRs)
- Gunner Ranch WWTF (New WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Chester Landfill (Revised WDRs)
- Orosi Landfill (Revised WDRs)
- Forward Landfill (Revised WDRs)
- Pittsburg Landfill (Revised WDRs)
- Geer Landfill (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

- Upper-watershed Information Item

DECEMBER BOARD MEETING

NPDES PERMITS

- City of Modesto WQCF Amendment
- Bear Valley Water District WWTF Amendment
- Cold Water CAAP General Order Renewal
- Alturas WWTP Renewal
- Sierra Pacific Industries Burney Division Sawmill Renewal
- Stallion Springs WWTF Renewal
- Woodland WWTP Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Bronco Winery (Amended WDRs)
- Tasteful Selections (New WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Fink Road Landfill (Revised WDRs)
- Cannon and Scallon Properties/28th St Landfill (Revised WDRs)
- Recology Hay Road (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

- None

PENDING ACTIONS, BUT NOT YET SCHEDULED FOR A BOARD MEETING

STORM WATER AND WATER QUALITY CERTIFICATION

- General Order for Dredging Activities not requiring a Federal Permit/General 401 Certification for Dredging Activities requiring a Federal Permit
- Clearlake Nutrient TMDL TSO – Phase II MS4

NPDES PROGRAM – PERMITTING

- Malaga WWTF Rescission
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Sixteen to One Mine Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- Barrel 10 Winery (Revised WDRs)
- Butte College WWTF (Revised WDRs)
- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto WWTF (Revised WDRs)

- City of Richgrove WWTF (Revised WDRs)
- Mule Creek State Prison (Amended WDRs)
- Dairy General Order (Revised WDRs)
- E&J Gallo Madera (Revised WDRs)
- E&J Gallo Livingston (Revised WDRs)
- Exeter Ivanhoe Citrus (Revised WDRs)
- Farmersville WWTF (Revised WDRs)
- Former Pilkington Glass Manufacturing Facility (Revised WDRs)
- Greenville WWTF (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- E&J Gallo Liberty Winery (New WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- North State Rendering Tallow Plant (Revised WDRs)
- Olson Meats (Revised WDRs)
- Redding Regional Septage (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)
- Wonderful Pistachios (Revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- CDCR Deuel (Revised WDRs)
- Aquaclear Farms (Revised WDRs)
- Western Regional Landfill (Revised WDRs)
- Loomis Landfill (Revised WDRs)
- SMS Briners (Revised WDRs)
- Rio Vista Landfill (Revised WDRs)
- Neal Road Landfill (Amended WDRs)

SIGNIFICANT CENTRAL VALLEY WATER BOARD PLANS, PERMITS AND POLICIES UNDER DEVELOPMENT

Central Valley Pyrethroids Basin Plan Amendment

The Basin Plan Amendment was adopted by the Central Valley Water Board on 8 June 2017, approved by the State Water Board on 10 July 2018, and approved by OAL on 19 February 2019. The non-TMDL elements of the Amendment are now fully approved and effective. USEPA approved the TMDLs in the Amendment on 23 April 2019.

Mercury Implementation Plan for Reservoirs

Staff from Regions 2, 5 and DWQ are developing a program to address fish mercury impairments in about 130 reservoirs statewide. Staff prepared the scientific and technical analysis and regulatory provisions for a statewide TMDL and implementation plan. The scientific peer review is complete. Project sponsors are discussing options for regulatory approach.

CV-SALTS Basin Plan Amendments

Salt and Nitrate Management Plan posted a www.cvsalinity.org at the end of 2016 and formally submitted to the Central Valley Water Board on 12 January 2017. Board accepted receipt of SNMP on 9 March 2017 and directed staff to begin Basin Plan Amendment. Central Valley Water Board adopted a Central Valley-wide Salt and Nitrate Control Program on 31 May 2018. Supporting policies included a revised Variance and Exceptions Policy; Drought and Conservation Policy; Offsets Policy; and clarification on the use of Secondary MCLs to protect the Municipal and Domestic Supply (MUN) use. Staff preparing to bring amendments to the State Board, OAL and USEPA for approval.

Revision of General Order for Existing Dairies

Revision of Revised General Order R5-2013-0122 to include requirements for composting consistent with the statewide composting General Order WQ 2015-0121-DWQ, requirements for land application areas consistent with the Irrigated Lands Regulatory Program requirements, and to include updated requirements adopted in the Bovine General Order R5-2017-0058. Staff is drafting revisions for Board considerations at future meeting.

Water Quality Objectives for Ammonia

Scoping meetings held on 15, 16 and 22 March in Rancho Cordova, Fresno and Redding, respectively. Agency meeting held 24 May. Toxicity testing in progress to provide information for criteria development.

USFS MOU for BAER activities

Staff has engaged the USFS in drafting an MOU that will outline the process by which the Regional Boards may choose to participate in USFS Burned Area Emergency

Response (BAER) teams. Temporarily on hold due to vacancies at the regional USFS office.

Basin Plan Amendment for a region-wide evaluation process for the Municipal and Domestic Supply (MUN) beneficial use in agriculturally dominated surface water bodies

The BPA was adopted on 11 August 2017. At the State Water Board approval hearing on 10 July 2018, the decision was made to bring the item back to the Board for consideration at a future date. A follow-up adoption hearing has not been scheduled. Amendments would also need approval by OAL and as appropriate, USEPA.

Development of Permit for Federal Non-Point Source (NPS) activities on Forest Lands

R5 is working with R6 to develop similar permits to cover NPS activities on USFS and BLM managed lands with the potential to affect water quality. The R5 MS4 permit is being used as a model and an EIR will be developed to address CEQA. 6 initial public outreach meetings were held from October through early December 2017. Project information can be found here:

http://www.waterboards.ca.gov/lahontan/water_issues/programs/nps/federal_lands/