

# **EXECUTIVE OFFICER'S REPORT**

**16 APRIL 2020**

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

**Patrick Pulupa, Executive Officer**



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An asterisk in this document denotes “Outreach to Disadvantaged Communities” or “Outreach to Tribes”.

## **SUCCESS STORIES**

### **SITE CLEANUPS**

#### **SIERRA PACIFIC INDUSTRIES, CASE SLT5R969, TEHAMA COUNTY**

A former sawmill and molding/remanufacturing facility used an in-ground fungicide application dip system from approximately the 1950s until 1980. These operations released pentachlorophenol (PCP) and a hydrocarbon-based solvent to soil and groundwater. Excavations conducted in 1985 and 2000 removed approximately 380 pounds of PCP from the site. In 1986, a sample from a domestic well located downgradient of the site exceeded the Maximum Contaminant Level for PCP. Model simulations conducted in 2017 predicted a groundwater plume of limited extent because the PCP source had been removed to the extent feasible. Subsequent sampling of nearby and downgradient wells within 2,000 feet of the site did not detect any contamination. Staff closed the case in January 2020.

### **UNDERGROUND STORAGE TANKS (UST) – 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 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**

##### **FORMER SIX STAR SHELL, 125 S. GATEWAY DRIVE, MADERA, MADERA COUNTY**

In December 2017, the Former Six Star Shell (Former SSS) removed three USTs that previously stored gasoline and diesel under the oversight of Madera County Environmental Health Department. After the Former SSS detected petroleum hydrocarbons in soil samples it collected beneath the USTs, Madera County Environmental Health Department referred the case to the Central Valley Water Board. Based on soil investigations in July 2018 and May 2019, approximately 7,800 pounds of

diesel impacted 6,600 cubic yards of soil to a depth of 45 feet. Groundwater was not impacted. The remaining petroleum hydrocarbons are not likely to pose a threat to human health and safety or the environment and should naturally degrade. A case closure letter was issued in accordance with the criteria in the *Low-Threat Closure Policy* on 29 January 2020.

## **REDDING**

### **FREEMAN RESIDENCE, CASE 470057, SISKIYOU COUNTY**

In February 2018, a 275-gallon heating oil UST was removed from a residential property in the City of Mount Shasta under Siskiyou County Environmental Health Division (SCEHD) oversight. After removal of approximately 4 cubic yards of impacted soil in conjunction with the UST removal, confirmation soil samples detected total petroleum hydrocarbons as diesel at concentrations as high as 7,300 milligrams per kilogram. SCEHD requested that the Central Valley Water Board act as lead agency for the case. In June 2019, Central Valley Water Board staff oversaw an investigation to assess the extent of contamination and potential threat via the vapor intrusion to indoor air pathway. The investigation determined that the soil impacts were located to the immediate vicinity of the former UST and that the residual contamination did not pose an on-going risk. Groundwater was not encountered during the investigation. Staff closed the case under the *Low-Threat Closure Policy* in February 2020.

### **PENTZ ROAD MARKET, CASE 040247, BUTTE COUNTY**

In January 2000, two USTs with a combined capacity of 22,000 gallons were removed from the site of a former gasoline service station under Butte County Environmental Health Division (BCEHD) oversight. A groundwater sample collected during tank removal contained methyl tert butyl ether (MTBE) at a concentration exceeding water quality objectives. The amount of contaminant mass removed in conjunction with UST removal is unknown. BCEHD referred the case to the Central Valley Water Board in May 2000. Central Valley Water Board staff requested a work plan for further site investigation, which the Discharger submitted, and staff approved, in August 2000. However, the Discharger failed to implement the work plan. Between April 2001 and February 2014, Central Valley Water Board staff issued multiple 13267 Orders for submittal of investigation-related documents. In August 2019, the Discharger conducted a site assessment. The investigation indicated residual petroleum contamination in soil gas and groundwater at concentrations that do not pose an on-going threat. Staff closed the case under the *Low-Threat Closure Policy* in March 2020.

## **SACRAMENTO**

### **MARIPOSA RANGER UNIT HEADQUARTERS, 5366 NORTH HIGHWAY 49, MARIPOSA, MARIPOSA COUNTY**

The Site is currently the regional headquarters for the California Department of Forestry and Fire Protection (CAL FIRE), located off Highway 49 northwest of Mariposa,

Mariposa County. In the late 1970s, CAL FIRE removed one 280-gallon gasoline UST from the Site. In March 2000, CAL FIRE removed a 550-gallon diesel UST and a 2,000-gallon gasoline UST from the Site and soil samples and a grab groundwater sample collected during the removals contained petroleum hydrocarbons. In 2013, Versar, CAL FIRE's environmental consultant, excavated and removed approximately 200 cubic yards of impacted soil, removing an estimated 240 pounds of petroleum hydrocarbons from the Site. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. There are six water supply wells located within the vicinity of the Site and the nearest surface water body is Mariposa Creek. Water samples that have been collected from the nearby water supply wells and Mariposa Creek show that these nearby sensitive receptors are not at risk from the residual petroleum hydrocarbons from this Site. The residual petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate. Consequently, they do not justify the cost of any additional active remediation or monitoring, and Central Valley Water Board staff concurs with CAL FIRE's recommendation for Site closure. This Site was closed on 30 December 2019.

#### **FRONTIER TRANSPORTATION, 425 WEST LARCH ROAD, TRACY, SAN JOAQUIN COUNTY**

In 1995, Frontier Transportation removed one 1,400-gallon UST, two 660-gallon gasoline USTs, and three 12,000-gallon diesel USTs, and associated piping and dispensers from the Site. Frontier Transportation began soil and groundwater investigation in 1996, which indicated petroleum hydrocarbons had impacted the subsurface. Frontier transportation conducted several remedial activities, including soil excavation, which removed about 1,780 pounds of petroleum hydrocarbons, and dual phase extraction (DPE), which removed 2,050 pounds of petroleum hydrocarbons. An estimated 2 pounds of petroleum hydrocarbons remain in groundwater beneath the Site, which is anticipated to naturally degrade without migrating beyond its current estimated extent. The Site meets all the general and media-specific criteria for case closure under the Low-Threat Closure Policy. The Site was closed on 19 December 2019.

#### **EXXON A&R (FORMER NELLA STATION #2), 728 COLUSA AVENUE, YUBA CITY, SUTTER COUNTY**

In 1994, Flyers Energy LLC (Flyers) removed six USTs from the Exxon A&R facility (former Nella Station #2), including one 12,000-gallon and three 7,500-gallon gasoline USTs, one 10,000-gallon diesel UST, and one 285-gallon waste oil UST. Following removal of the USTs, Flyers filed an Unauthorized Release Report with Sutter County Agricultural Department. To assess the extent of the release, Flyers installed 13 groundwater monitoring wells, and advanced 70 soil and groundwater borings at the Site. Between December 2004 and March 2008, Flyers removed about 50 gallons (300 pounds) of non-aqueous phase hydrocarbons (free product) from several monitoring and remediation wells. Between May 2012 and June 2015, Flyers operated a DPE remediation system which removed 4,560 pounds of hydrocarbons and 466,500 gallons of hydrocarbon-impacted groundwater from the subsurface. The Site is currently

undergoing redevelopment and is expected to reopen as a fueling facility. Site conditions met the General and Media-Specific criteria for case closure under the *Low-Threat Closure Policy*, and the case was closed on 7 February 2020.

**R&L MINI MART #1, 22277 PARROTT'S FERRY ROAD, SONORA, TUOLUMNE COUNTY**

The Site is currently an active gasoline service station and mini mart. In April 1995, R&L Mini Mart (R&L) removed two 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST from the Site and replaced them with double-walled fiberglass USTs. Soil and groundwater samples collected from the Site indicated that an unauthorized release had impacted soil and groundwater at the Site. In 1995, Keagy Excavating excavated and removed approximately 7,500 cubic yards of impacted soil from the Site. Between June 2004 and October 2017, R&L implemented various remediation methods, including a groundwater extraction and treatment system, ozone sparging, and a DPE/air sparging (AS) system. The DPE/AS system removed an estimated 2,200 pounds of petroleum hydrocarbons from the Site. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. There are four water supply wells in the vicinity of the Site, but historical Site data and groundwater samples collected from the water supply wells show that the residual petroleum hydrocarbons do not pose a threat to these wells. Therefore, the residual petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate. Consequently, they do not justify the cost of any additional active remediation or monitoring, and Central Valley Water Board staff concurs with R&L's recommendation for Site closure. This Site was closed on 21 January 2020.

**FORMER CHASE CHEVROLET, 424 NORTH VAN BUREN STREET, STOCKTON, SAN JOAQUIN COUNTY**

Former Chase Chevrolet (Chase) removed a 1,000-gallon fuel UST from the Site in 1986 and filed an Unauthorized Release Report in June 1991 following initial environmental assessment in 1990. Chase conducted multiple phases of investigation and remediation between 1990 and 2018. Between November 1999 and February 2001, Chase operated a soil vapor extraction and AS remediation that removed 5,130 pounds of hydrocarbons from the subsurface. Chase also conducted ozone injection remediation between 2003 and 2004. During redevelopment of the Site in 2004, the City of Stockton removed an additional 715 cubic yards of petroleum impacted soil from the area of the former UST. Based on sampling completed in April 2018, Stantec Consulting Services Inc., Stockton's environmental consultant, concluded that the Site meets the *Low-Threat Closure Policy*. Board staff concurs with this conclusion and the case was closed on 20 January 2020.

# STAFF RECOGNITION

## SUPERIOR ACCOMPLISHMENT AWARDS

At the February 2020 Board Meeting, Executive Officer presented the Superior Accomplishment Awards to the following employees:

**Employee:** Kate Burger  
**Unit:** Groundwater Unit  
**Location:** Redding Office  
**Title:** Senior Engineering Geologist  
**Supervisor:** Bryan Smith, Supervising Water Resources Control Engineer

Kate Burger has been selected to receive this Superior Accomplishment Award for her contributions to the Central Valley Water Board. Kate is a Senior Engineering Geologist supervising the Groundwater Unit in the Redding office. This unit conducts work in the Site Cleanup Program, the Underground Storage Tanks Program, the Title 27 Land Disposal Program, and the Mining Program. In addition to supervising five technical staff working in these program areas, Kate serves as the Region's Mining Program Manager.

Kate started with the Water Boards in 2015. Kate brought with her more than 24 years of experience, 16 of which was spent at DTSC where she served as technical consultant on hazardous waste investigations and cleanups, was lead for the regional San Gabriel Valley Superfund Sites, and coauthored seven guidance documents pertaining to groundwater monitoring and cleanup at hazardous waste facilities.

Kate has proven herself to be not only a highly qualified technical resource, but also an outstanding supervisor for a busy unit working across multiple programs. When the Region needed a new Mining Program Manager, Kate put on another hat and agreed to take on the challenge. From managing the Region's involvement with the Iron Mountain Mine Superfund site or the Region's other numerous legacy mining cases, to ensuring groundwater investigations and cleanup cases are proceeding successfully, Kate can be counted on to provide high quality, timely, and insightful work products and invaluable mentoring of staff.

Kate worked with her staff and OCC to direct the first phase of investigation at a former pulp and paper mill that had been a longtime challenge for the Region. Under Kate's guidance, staff applied for and was awarded \$1.2 million dollars from the State Water Board's Site Cleanup Subaccount Program to investigate potential water quality threats associated with the 62-acre site. Because the current property owner was uncooperative, it was necessary to gain site access via a forcible entry inspection warrant issued by a Superior Court judge. During October, November, and December 2019, staff directed the Phase I Investigation field work. A total of 104 borings were advanced, to investigate potential groundwater impacts at the site. A technical memorandum documenting the Phase I findings is being prepared, as well as a Work Plan for continued investigation at the site.

While this is just one example to illustrate the results achieved due to Kate's hard work, there are many more. Kate's work ethic, her professionalism, and calm demeanor are appreciated by our management team and staff alike. For this, and much more, we are pleased to provide this recognition.

**Employee:** Mike Fischer  
**Unit:** Compliance and Enforcement Unit  
**Location:** Sacramento Office  
**Title:** Water Resources Control Engineer  
**Supervisor:** Kari Holmes, Supervising Water Resources Control Engineer

Mike Fischer is a WRCE in the Compliance and Enforcement Section in the Central Valley Water Board's Rancho Cordova Office. Mike has long been a go-to resource for both staff and managers who have questions related to the Region's stormwater programs. Mike is always willing to help staff and is also professional and accessible to dischargers with questions. Mike's work products are consistently very high quality. Since the end of the summer of 2019, Mike took on the responsibility for managing the stormwater unit, after the retirement of the unit's senior. At the same time the Compliance and Enforcement Section was without a supervisor, and the AEO was on assignment to the State Board. Mike coordinated and communicated well with the AEO and was able to keep the stormwater unit functioning well. At the same time Mike led efforts to settle half a dozen construction storm water cases from the previous winter. The settlements were completed before the 2019-20 rainy season, allowing the Board to have a strong enforcement stance going into this year's rainy season. Without Mike, these settlements would not have been successful. Mike has exhibited exceptional professionalism and dedication like this throughout his career with Region 5.

## **EMPLOYEE RECOGNITION AWARDS FEBRUARY 2020 THROUGH MARCH 2020**

### **SACRAMENTO OFFICE**

**Employees:** Lauren Smitherman  
**Unit:** Mercury TMDL Unit  
**Location:** Sacramento Office  
**Title:** Environmental Scientist  
**Supervisor:** Meredith Howard, Environmental Program Manager

Lauren Smitherman is a highly valued member of the Planning Section and works in the Mercury and Metals TMDL unit. Lauren is a hard-working environmental scientist who has greatly exceeded expectations by taking a leadership role on several efforts within the Mercury TMDL unit. Lauren excels at pulling staff together to solve complex political and technical issues and takes on new projects with energy and a can-do attitude. Her leadership skills have been a critical asset to the unit successfully meeting project milestones despite a vacancy in the Senior Supervisor position.

Lauren excels at developing tools to streamline Water Board staff workloads and communication between sections and units. She has reviewed and organized mercury literature into a tool that allows staff to find the appropriate technical papers in an efficient and timely manner. Lauren developed a new collaborative process between the 401 certification and mercury TMDL staff for the 401 certification and CEQA commenting process. As part of this process, Lauren developed a template and GIS tool to convey and communicate technical information to include in the 401 certification and CEQA comments that will reduce the amount of staff time required. This process will be implemented into the larger TMDL program for other water quality issues as well.

Lauren uses her experience, critical thinking, and technical knowledge to provide sound recommendations to managers. She is enthusiastic and has a positive attitude even as plans and assignments change due to shifting priorities. We are fortunate to have Lauren working at the Central Valley Water Board and she is well deserving of this award.

**Employee:** Jordan Hensley  
**Unit:** 401 Water Quality Certification and Dredging Unit  
**Location:** Sacramento Office  
**Title:** Environmental Scientist  
**Supervisor:** Stephanie Tadlock, Senior Environmental Scientist

Jordan is an environmental scientist with the 401 Water Quality Certification and Dredging Unit.

Jordan was the lead staff in developing the South Sacramento Habitat Conservation Plan general orders and certifications issued in April and August of 2019 respectively. She worked closely with internal staff and contacts with the Army Corps and Sacramento County to make a uniform and robust authorization that can be used in other habitat conservation plans that are developed in the future. She is timely in completing her certifications and takes ownership of all of her tasks. She is the lead unit staff member assigned to assisting in converting the unit templates into ADA compliant documents and is consistently working with IT to make sure our documents fulfill the requirements and pass all of the various checks necessary for use by the public.

Jordan is the Region 5 representative on many interagency in-lieu fee program teams. She does not hesitate to contact other units and programs within the office when she sees potential concerns for planning and enforcement staff on projects she is reviewing and certifying. She works well with other unit staff and has brought up ways to create more efficiency in all aspects of unit productivity in all assigned tasks. She is not afraid to take on increasingly more complicated projects as they contact the unit for certification.

Jordan's work is extremely detail oriented and of the highest quality. She seeks innovative ways to make the 401 unit more efficient with her knowledge and expertise. With her initiative and drive to improve the unit, she is a valuable member of our staff and is well deserving of the Employee Recognition Award.

## REDDING OFFICE

**Employee:** Colt Brockman  
**Unit:** Nonpoint Source  
**Location:** Redding Office  
**Title:** Environmental Scientist  
**Supervisor:** Griffin Perea, Senior Engineering Geologist

Colt Brockman is an Environmental Scientist in the Redding office's Nonpoint Source Unit and has been with the Central Valley Water Board since April 2018. Colt began his time with the Board in the Forest Practice Unit and has been an integral member of the Forest Activities Program, quickly coming up to speed on a variety of projects while maintaining oversight on core work products. Colt has shown himself to be reliable, organized, and highly professional in his work.

Colt's core workload includes serving as the Redding offices liaison to 6 national forests, which includes processing timber harvest general order enrollments and providing oversight and inspections on federal timber harvest projects. Additionally, Colt serves as the Forest Activities Program's liaison for Timber Regulation and Forest Restoration Fund, which includes reviewing grant proposals, working with grantees on meeting the requirements of the grant, and interfacing with State Board for oversight of numerous grant projects. In addition to Colt's core workload, he has become involved in rural road discharge and pollution issues, recently overseeing and enforcement effort and working with Colusa county to improve road drainage on Goat Mountain Road, and has drafted a Memorandum of Understanding in an effort to better coordinate with federal agencies on post fire Burned Area Emergency Response teams. Despite his heavy workload, Colt makes himself available to assist other staff when needed and always follows through with his commitments to high standard.

Throughout Colt's time with the Central Valley Board he has readily taken on new tasks with a positive attitude and a willingness to dig into the details of projects to become proficient in a very short time. He is able to juggle a large and varied workload efficiently, never missing deadlines, and has earned the respect of the numerous parties he works with both inside and outside of the Water Boards. Colt is a valuable member of the Nonpoint Source Unit and the Forest Activities Program as a whole and is very deserving of this recognition.

**Employee:** Michael Crook  
**Unit:** Cannabis Permitting and Compliance Unit (CPCU)  
**Location:** Redding Office  
**Title:** Environmental Scientist  
**Supervisor:** Elizabeth Betancourt, Senior Environmental Scientist

Michael Crook has been with the Central Valley Water Board since February 2018, serving as an Environmental Scientist in the Cannabis Permitting and Compliance Unit (CPCU) in the Redding office. He has consistently grown since his first day, and is an

effective regulator, considerate and consistent colleague, and a patient and dedicated public servant.

Michael is point for Nevada County, one of our busiest jurisdictions. He has built and maintained a relationship with the County staff and works closely with them to ensure that our Dischargers are and remain in compliance. Relationships require consistent tending, and Michael does that with both jurisdictional staff as well as the Dischargers he regulates. Michael is incredibly professional in his interactions, maintaining respect even in challenging interactions. He carries this demeanor through to his collegial relationships, as well, creating relationships of trust, teambuilding, and synergy that have allowed the CPCU to accomplish so much with diminished staff.

Coming in as new staff to a regulatory agency can be daunting and challenging, and Michael has dived into it with enthusiasm, patience, and persistence. He has progressed significantly in his technical writing, taking on more difficult cases with complex inspection records. This workload hasn't prevented him from meeting and exceeding his workplan targets: he has spearheaded focused days of permitting inspections to help the CPCU in meeting targets and show a presence in places where compliance has been targeted.

As the point person for Nevada County, the target of most of the CPCU enrollment enforcement effort, Michael also fields a higher-than-average number of calls. He's worked with Dischargers patiently and firmly, tracking the outcome of each interaction.

Michael's assessment of a situation is robust and always adds to the CPCU's understanding of the Cannabis General Order and how we apply it. He is generous with his experience, his time, and his knowledge, and is a valuable member of the CPCU

## **FRESNO OFFICE**

**Employee:** Nicholas Handcock  
**Unit:** Administration  
**Location:** Fresno Office  
**Title:** Office Technician  
**Supervisor:** Scott Hatton, Supervising Water Resources Control Engineer

Nicholas is receiving this award for his work in the Administration Unit. Nicholas started working for the Central Valley Water Board in June 2019, and in a very short time, he demonstrated his willingness and ability to handle the complexities and nuances that come with his position. He is professional and courteous when dealing with the public either in person or on the phone. Nicholas is usually the first face people see when they visit in the office, and his customer service is invaluable to the office and this agency.

In under a year's time, Nicholas has become very effective at receiving mail (both hard copies and electronic) and distributing them to the appropriate staff. Nicholas also handles processing letters to get them mailed out to dischargers and the general public. He is also in charge of reserving state vehicles for staff's use for travel to meetings, inspections, and other state work.

Nicholas has utilized his computer skills to become the lead for making final documents from our office that we post to our web page to be in compliance with Government Code Sections 7405 and 11135 and the Web Content Accessibility Guidelines so they are accessible to all members of the public. His skills are heavily relied on and appreciated by all in the office. Staff frequently come to him with questions with their documents. Nicholas is always patient and willing to help other staff with their computer issues.

Nicholas is a pleasure to work with. His attitude and willingness to get the job done and learn allows him to be a great resource for the Fresno office. For these reasons and many more, Nicholas Handcock is well deserving of this award.

**Employee:** Nicolette Dentoni  
**Unit:** NPDES Permitting  
**Location:** Fresno Office  
**Title:** Water Resource Control Engineer  
**Supervisor:** Matt Scroggins, Senior Water Resources Control Engineer

Nicolette has worked for the Central Valley Water Board as an engineer in the NPDES Permitting Unit for approximately 4.5 years and continues to be a valuable employee and an asset to the Board.

In the month of February, Nicolette had a set of Waste Discharge Requirements adopted by the Board for the Malaga County Water District Wastewater Treatment Facility and sent out for public comment a draft NPDES permit for the City of Merced. Merced's permit is complex, as it includes surface water discharge, recycled water discharges, groundwater monitoring, and a pretreatment program. In addition, Nicolette is also drafting a NPDES permit for a highly unique project in the Sequoia/Kings National Parks which involves the application of the piscicide rotenone to support aquatic ecosystem restoration efforts.

Nicolette is also establishing herself within the NPDES program as a lead resource for laboratory methods and data quality issues. Program management recently asked her to be the Region 5 program point person for implementation of USEPA's Sufficiently Sensitive Methods Rule to ensure dischargers are providing useful data. She gladly accepted this role, and, in doing so, is going above and beyond for the betterment of the NPDES program.

Nicolette is consistently on task and routinely produces high quality work products that are very well organized and need little revision. She always conducts herself professionally and accepts work assignments with a great attitude. Her dedication to the Board's mission is evident and much appreciated. For these reasons and more, Nicolette is very deserving of this 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 EO Report is intended to inform the Board and the public on enforcement efforts since the last EO Report was issued. For this reporting period, the following sections provide: 1) a summary of enforcement orders issued; and, 2) a summary of all enforcement actions issued.

### ORDERS AND COMPLAINTS ISSUED OR ADOPTED

Enforcement Table 1, included below, provides a summary of all of the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDOs); 13267 Investigative Orders; Expedited Payment Letters (EPLs); and Administrative Civil Liability (ACL) Orders and Complaints) that have been issued by the Central Valley Water Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

**Enforcement Table 1 – Central Valley Enforcement Orders  
(1 January 2020 Through 29 February 2020))**

Action Date	Agency	County	Notes
01/03/20	Christopher J. Jeffries	Shasta	13267 Order and a Notice of Violation (NOV) issued for unauthorized discharge of waste to waters of the State. The 13267 required the Discharger to immediately cease discharge and submit a work plan for site restoration and proposed mitigation that addresses past discharges and the threat of future discharge.
01/09/20	CA Dept of Correction and Rehabilitation	San Joaquin	ACL R5-2019-0533 in the amount of \$12,000 addresses MMPs for effluent limit violations at Deuel Vocation Institution's WWTP. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
01/09/20	Brasil, John & Maria	Stanislaus	ACL R5-2019-0515 in the amount of \$108,608 issued for unauthorized discharge of wastewater to already saturated cropland. On 13 February 2019, Central Valley Water Board staff inspected the Discharger's dairy and found that

Action Date	Agency	County	Notes
			manure slurry had been pumped onto the Dairy East field, completely covering the winter crop with manure. The field is not well graded and most of the manure slurry settled around the irrigation valves. The settlement agreement provides the Discharger with an opportunity to resolve the alleged violations.
01/09/20	Nevada CSD No 1	Nevada	ACL R5-2019-0531 in the amount of \$12,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
01/09/20	Mountain House CSD	San Joaquin	ACL R5-2019-0535 in the amount of \$129,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
01/09/20	Stockton	San Joaquin	ACL R5-2019-0536 in the amount of \$6,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
01/10/20	Wheelabrator Shasta Energy Co	Shasta	EPL R5-2019-0542 issued in the amount of \$3,000 which represents the sum of MMPs for a serious effluent violation which occurred between 1 January 2016 and 31 January 2019.
01/15/20	Dunsmuir City	Siskiyou	Settlement Agreement and Stipulation for Entry of Administrative Civil Liability (ACL) Order R5-2020-0502 issued in the amount of \$30,000 addresses MMPs effluent limitation violations that occurred between 30 November 2016 and 31 May 2017. The full amount of the ACL shall be suspended pending completion of a Compliance Project.
01/17/20	Chris Kutras	Shasta	During the site inspection Board staff identified several issued with the at the Facility such as unstable slope, soils and proximity to waters of the state. In addition, the Discharger failed to provide necessary reports to evaluate the Facility. 13267

Action Date	Agency	County	Notes
			Order issued for technical reports to evaluate Facility condition and steps the Discharger will implement to ensure there no discharge from the site to Waters of US.
02/05/20	Portola City	Plumas	Settlement Agreement and Stipulation for Entry of Administrative Civil Liability (ACL) Order R5-2020-0503 issued in the amount of \$9,000 addresses mandatory minimum penalty (MMP) effluent limitation violations that occurred between 20 March 2018 and 30 April 2019. The full amount of the ACL shall be suspended pending completion of a Compliance Project
02/11/20	25 Hill Properties, Inc.	Kern	ACL Complaint R5-2018-0509 issued for \$325,339 for failure to submit a work plan, quarterly technical reports by prescribed deadlines, failure to comply with the MRP Order R5-2015-0745, and failure to cease discharges by the prescribed deadline.
02/21/20	Coronado Dairy Farms, LLC and Maricopa Orchards, LLC	Tulare	13267 Order issued for failure to maintain enrollment under a representative groundwater monitoring program or conduct individual groundwater monitoring. 13267 Order requires the Discharger to submit technical reports to evaluate groundwater condition underneath the facilities and the Discharger re-enrolled under the Central Valley Dairy Representative Monitoring Program.
02/21/20	Flavio Martins	Tulare	13267 Order issued for failure to maintain enrollment under a representative groundwater monitoring program or conduct individual groundwater monitoring. 13267 Order requires the Discharger to submit technical reports to evaluate groundwater condition underneath the facilities and directs the Discharger to re-enrolled under the Central Valley Dairy Representative Monitoring Program.

Action Date	Agency	County	Notes
02/21/20	De Jong, Peter and Outback Ranch	Tulare	13267 Order issued for failure to maintain enrollment under a representative groundwater monitoring program or conduct individual groundwater monitoring. 13267 Order requires the Discharger to submit technical reports to evaluate groundwater condition underneath the facilities and the Discharger re-enrolled under the Central Valley Dairy Representative Monitoring Program.
02/21/20	Leslie Souza	Tulare	13267 Order issued for failure to maintain enrollment under a representative groundwater monitoring program or conduct individual groundwater monitoring. 13267 Order requires the Discharger to submit technical reports to evaluate groundwater condition underneath the facilities and the Discharger re-enrolled under the Central Valley Dairy Representative Monitoring Program.
02/21/20	M. C. Watte Ranches	Tulare	13267 Order issued for failure to maintain enrollment under a representative groundwater monitoring program or conduct individual groundwater monitoring. 13267 Order requires the Discharger to submit technical reports to evaluate groundwater condition underneath the facilities and the Discharger re-enrolled under the Central Valley Dairy Representative Monitoring Program.
02/25/20	Anderson City	Shasta	EPL R5-2019-0538 issued in the amount of \$15,000 which represents the sum of MMPs for serious effluent violations.

## ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 January 2020 through 29 February 2020. From a statewide perspective, Region 5 is responsible for 26% of the enforcement actions tracked in CIWQS during this period including 80% of all 13267 Orders, 24% of all ACLs, 42% of all VER, and 28% of all NOVs

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS  
(1 January 2020 Through 29 February 2020)**

Region	13267	NNC	ACL	EPL	NOV	NTC	SEL	TSO	VER	Total	Region
1	0	0	0	0	8	0	0	0	0	8	1
2	0	0	17	2	1	0	0	0	0	20	2
3	0	0	4	2	9	2	0	0	1	18	3
4	0	7	6	5	151	2	0	0	5	176	4
5F	5	1	1	0	10	0	1	0	4	22	5F
5R	3	0	2	2	6	0	0	1	0	14	5R
5S	0	7	8	0	54	0	4	0	7	80	5S
Total R5	8	8	11	2	70	0	5	1	11	116	Total R5
6T	0	0	0	0	0	0	1	0	0	1	6T
6V	0	0	0	0	0	0	1	0	2	3	6V
7	0	0	0	0	7	0	0	0	0	7	7
8	1	20	6	1	1	0	43	0	7	79	8
9	1	0	1	0	5	0	10	0	0	17	9
<b>Total</b>	<b>10</b>	<b>35</b>	<b>45</b>	<b>12</b>	<b>252</b>	<b>4</b>	<b>60</b>	<b>1</b>	<b>26</b>	<b>445</b>	<b>Total</b>

## ENFORCEMENT ACTIONS:

### Enforcement Actions and Abbreviations:

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

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

**Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker (1 January 2020 Through 29 February 2020)**

Office	13267 Order	ACL	Notice Letter	NOV	Verbal Communication	Total	Office	13267 Order
5F	3	4	8	6	0	21	5F	3
5R	0	0	0	0	1	1	5R	0
5S	1	0	0	8	5	14	5S	1
Total	4	4	8	14	6	36	Total	4

Finally, the Board's Irrigated Lands Regulatory Program (ILRP) does not upload enforcement actions into either the CIWQS or GeoTracker databases. A summary of ILRP enforcement actions is included in Enforcement Table 4 below.

**Enforcement Table 4 -Region 5 ILRP Enforcement Actions (1 January 2020 through 29 February 2020)**

Office	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to 13260 Directives	NOVs for Failure to Submit the Notification Template for exceedance of drinking water well	Totals
Sacramento	0	17	0	17
<b>Total</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>17</b>

## **SANITARY SEWER OVERFLOWS (SSOs) AND COMPLAINTS**

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS General Order) 2006-003-DWQ requires enrollees to submit a SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 January 2020 through 29 February 2020, there was one reported SSO incident in which 50,000 gallons or greater spilled reached surface water

### **MADERA COUNTY PUBLIC WORKS DEPARTMENT, MD-8A NORTH FORK CS, MADERA COUNTY**

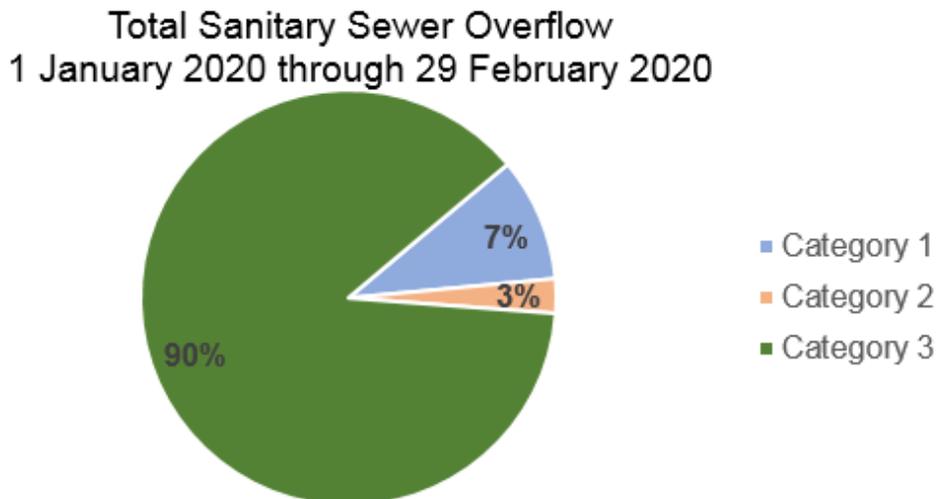
On 10 March 2020, the Central Valley Water Board (Water Board) was notified by California Office of Emergency Services (Cal-OES) report # 20-1391 that a sewage spill of 372,000 gallons occurred at a remote manhole causing release of sewage to adjacent Willow Creek for estimated 31 days at 12,000 gallons per day. On the same day, Water Board staff contacted Madera County Public Works, Special Maintenance District-8A staff (County staff) and County Environmental Health staff and also

inspected the spill site and the WWTF on 11 March 2020. According to the County staff and their report, the Category 1 spill was caused by vandalism and discovered on 10 March 2020 at 1 PM and ceased by 2:30PM. The County staff hydro-flushed the main line to unclog and ran a camera to make sure the main line was cleared of debris and placed warning signs along the creek upstream and downstream of the spill site. The County staff also retrieved 3/4 inch by 2-foot long metal pipe, a broom handle, a towel, and articles of clothing from the manhole. The spill volume to the surface waters was revised to 300,000 gallons. Water Board staff has recommended the County staff to sample upstream and downstream of the creek until bacteriological samples show downstream waters are not affected. The Discharger estimated the spill to 300,000 gallons that reached surface waters. Water Board staff also evaluating the sewer spill for further enforcement actions.

## SSO SUMMARY DATA

Figure 1: Central Valley Sanitary Sewer Overflow Summary (1 January 2020 through 29 February 2020)

For the reporting period between 1 January 2020 through 29 February 2020, there were 187 total SSO spills: 18 Category 1, 5 Category 2, and 164 Category 3 spills



## ADDITIONAL INFORMATION ON SSOS

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

Sewage collection agencies report SSOs in the State Water Board's CIWQS database pursuant to the requirements of SSS General Order.

## **COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS**

### **ADMINISTRATIVE CIVIL LIABILITY**

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

### **COMPLIANCE PROJECT (CP)**

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

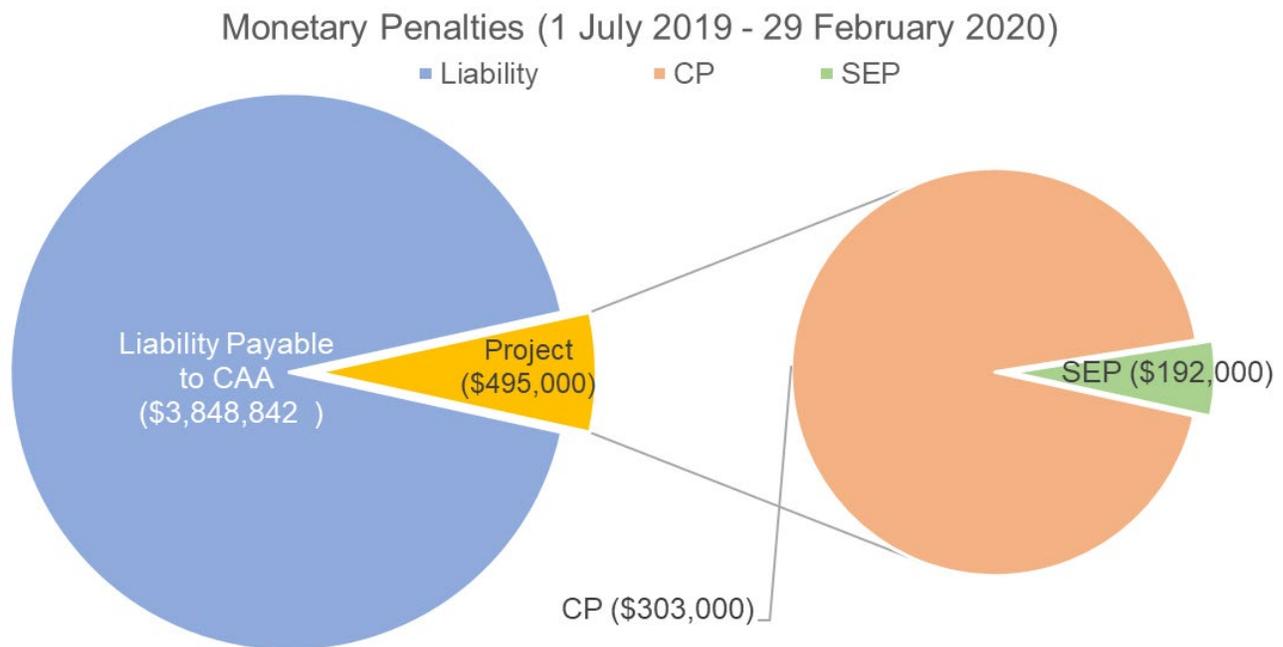
### **SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)**

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

### **ENHANCED COMPLIANCE ACTION (ECA)**

ECAs are projects that enable a discharger to make capital or operational improvements beyond those required by law and are separate from projects designed to merely bring a discharger into compliance. The Water Boards may approve a settlement with a discharger that includes suspension of a portion of the monetary liability of an ACL for completion of an ECA. for the fiscal year period between 1 July 2019 through 29 February 2020, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$4,343,842 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$303,000 was allocated for CPs and \$192,000 was allocated for SEPs

Figure 2: Central Valley Sanitary Sewer Overflow Summary  
(1 January 2020 through 29 February 2020)



## PERFORMANCE TARGETS

Performance measurement and reporting is an important component of a complete system of performance management and is needed to demonstrate how well programs or strategies are working. Information obtained through better performance measurement and program evaluation provides insight that enables us to understand and replicate successes, and continuously improve programs.

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

([https://www.waterboards.ca.gov/about\\_us/docs/resource\\_alignment\\_report.pdf](https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf))

and was used to develop the FY 2019-2020 performance targets. Below is the Central Valley Water Board's Performance Measurement Summary for the 2019-2010 fiscal

**ENFORCEMENT TABLES 5a-5e – REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY (1 JULY 2019 THROUGH 28 FEBRUARY 2020)**

**NPDES Wastewater – Table 5a.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Major Individual Facilities Inspected	29	13	45%	NA	13
Minor Individual Facilities Inspected	9	4	44%	NA	4
Minor General Enrollees Facilities Inspected	0	3	--	NA	0

**Waste Discharge to Land – Wastewater – Table 5b.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	106	83%	NA	126

**Land Disposal – Table 5c.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Landfill Inspections	113	57	67%	NA	76
All Other Inspections	23	20	109%	NA	25

**NPDES Storm Water – Table 5d.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Stormwater Construction Inspections	385	219	68%	NA	263
Stormwater Industrial Inspections	195	165	88%	NA	171
Stormwater Municipal Inspections	0	16	NA	NA	21

**Other Programs – Table 5e.**

<b>Programs</b>	<b>Original Target</b>	<b>Facilities Inspected</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Inspections Performed</b>
Forest Activities Inspections	166	131	81%	NA	135
Confined Animal Facility Inspections	275	217	88%	NA	241

**ENFORCEMENT TABLES 6a-6d – REGION 5 PERMIT PERFORMANCE MEASUREMENT SUMMARY (1 JULY 2019 THROUGH 29 FEBRUARY 2020))**

**NPDES Wastewater – Table 6a.**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/ Original Target</b>	<b>Revised Target</b>	<b>Total # of Permits Issued</b>
Major Individual Permits Issued, Revised, and Renewed	9	4	44%	NA	4

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
Minor Individual Permits Issued, Revised, and Renewed	6	1	17%	NA	1

**Waste Discharge to Land – Wastewater – Table 6b.**

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	23	66	287%	NA	64

**Land Disposal – Table 6c.**

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
Landfills Permits Issued, Revised, and Renewed	13	4	31%	NA	4
All Other Permits Issued, Revised, and Renewed	2	0	0%	NA	0

**Clean Up – Table 6d.**

<b>Programs</b>	<b>Original Target</b>	<b>Actuals: Permits or Issued</b>	<b>% Complete = Actuals/Ori ginal Target</b>	<b>Revised Target</b>	<b>Total # of Permits Issued</b>
New DoD Sites into Active Remediation	6	6	100%	NA	6
New SCP Sites into Active Remediation	50	22	44%	NA	22
Cleanup Program Sites Closed	60	29	48%	NA	29
New UST Sites into Active Remediation	25	14	56%	NA	25
Underground Storage Tank Sites Closed	68	50	73%	NA	50

## **DELTA ACTIVITIES**

### **DELTA MERCURY CONTROL PROGRAM**

The Delta Mercury Control Program (DMCP) require entities responsible for discharging methylmercury (MeHg) in the Delta to conduct source control studies and evaluate and develop MeHg management methods. The DMCP requires the studies to be reviewed by an independent scientific peer review panel (Review Panel). Seven control study reports investigating MeHg management in municipal wastewater and urban stormwater runoff discharges have been completed and evaluated by the Review Panel. Two additional control study reports regarding open water modeling and tidal wetlands will be reviewed in 2020. The Central Valley Water Board will use information from these studies and recommendations from the Review Panel to consider revisions to the DMCP and associated Methylmercury TMDL.

The Review Panel’s report assessing the seven control study reports on municipal wastewater and urban stormwater runoff discharges can be viewed here: <http://www.deltacouncil.ca.gov/pdf/science-program/2019-08-22-delta-methylmercury-review-part-1.pdf>. Overall, the Review Panel found that work plans were generally followed but expressed concerns over scientific rigor, extrapolation of pilot-scale studies to a larger scale and cautioned about drawing regionwide conclusions from the study results. Board staff are in the process of meeting with dischargers to discuss the reports.

Additionally, Board staff are preparing for the second Review Panel and an external mercury advisory panel (Advisory Panel). The second Review Panel will review the open water modeling and tidal wetlands control study reports in July 2020 and submit a

report on those studies in September 2020. The Advisory Panel is expected to convene in late 2020.

In December 2019, Board staff mailed CEQA AB 52 letters to tribes on the Native American Heritage Commission List who requested information regarding projects that may affect tribal cultural resources within the Delta. No consultation requests were received during the consultation period.

Board staff anticipate planning and hosting CEQA scoping meetings in Summer 2020.

On 14 January 2020, Jennifer Fuller participated in a meeting of the Delta Tributaries Mercury Council (DTMC). Jennifer provided updates on the review of the Delta Mercury Control Program and associated TMDL, including AB 52 letters having been sent for tribal consultation requests, a CEQA scoping meeting anticipated for summer of 2020, and the upcoming control study review panel and advisory panel occurring in late 2020.

## **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 Sacramento – San Joaquin Delta.

Central Valley Water Board and Delta Conservancy staff (MERP staff) continued coordination efforts with local entities and other state agencies and continued to post fish consumption advisory sign posting at Delta sites. Staff posted Delta fish consumption advisory signs on the Sacramento River in February and March 2020.

MERP staff gave a six-year program overview presentation to the Board at the 20 February 2020 Board meeting. The informational agenda item described successful program implementation that will soon end in June 2020 due to limited funding. Board staff continue to coordinate with DWR and OEHHA to finalize a low-literacy brochure design to improve consumption advisory interpretation. Delta Conservancy and Board staff met in March to remediate program materials to be ADA compliant. Once the materials meet accessibility standards, they will be re-posted on the MERP website. Board staff will continue to provide online and printed MERP informational materials to community organizations, Tribes, and entities that serve communities at risk for high mercury exposure by eating fish from the Delta. Additionally, Board staff will continue to meet annually and coordinate with MERP participants including the California Department of Water Resources (DWR), the Delta Conservancy, and the Office of Environmental Health Hazard Assessment (OEHHA).

## **DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)**

On 13 February 2020, the Delta RMP Technical Advisory Committee (TAC) met to discuss results from current projects and the development of new projects. Scientists from the USGS Organic Chemistry Research Laboratory and the Aquatic Health Program Laboratory at UC Davis presented the provisional results for water year 2019 monitoring of current use pesticides and aquatic toxicity. Additional monitoring results for mercury in water, sediment, and fish tissue in the Delta were discussed and have been summarized in a draft report that is currently being revised based on feedback from Board staff and other mercury subcommittee participants. Aquatic Science Center (ASC) staff presented a draft proposal for a pesticides data report. The TAC recommended a nutrient monitoring study to the Steering Committee.

On 3 March 2020, the Delta RMP Data Management subcommittee met and discussed the outstanding corrections needed to the Delta RMP Quality Assurance Program Plan. Office of Information Management and Analysis (OIMA) staff provided clarifications to the subcommittee regarding quality assurance flags applied to toxicity data to ensure reporting consistency with the California Environmental Data Exchange Network (CEDEN).

Also, on 3 March 2020, Board staff and Executive Management met for a Delta RMP Summit to discuss the current objectives and agency needs of Delta RMP. To ensure program data will inform management decisions, Board staff and Executive Management developed an internal process to address water quality impairments or issues identified through results of the Delta RMP data. Board staff have planned internal coordination meetings across regulatory programs to further prioritize management needs and address water quality issues.

On 4 March 2020, the Executive Officer and Board staff from the Central Valley and the San Francisco Bay met with the Delta Stewardship Council Chief Deputy Executive Officer and the Delta Science Program Deputy Executive Officer for Science to discuss opportunities to increase coordination amongst monitoring and projects between San Francisco Bay and the Delta. The Delta Stewardship Council has improved scientific review, advice, and facilitation opportunities for Board programs to ensure the quality and integrity of scientific information used in natural resource decision-making in the Delta.

The Delta RMP Steering Committee (SC) held a teleconference on 11 March 2020 to appoint new Co-Chairs for the TAC and a new meeting facilitator from the Consensus and Collaboration Program at Sacramento State University. The TAC Co-Chairs will consist of one representative from the regulated entities and one from the regulatory entities (similar to the SC structure). Board staff, Selina Cole, was approved as the TAC Co-Chair representing the regulatory entities. The SC approved the nutrients monitoring proposal to continue high-frequency monitoring in the Delta.

## **DELTA NUTRIENT RESEARCH PLAN**

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

### **STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES**

A high priority information need identified in the Delta Nutrient Research Plan is monitoring harmful algal blooms to understand annual patterns and the presence of cyanotoxins (produced by cyanobacteria). Board staff submitted several funding requests and is seeking leveraging opportunities to collect data across the Delta.

Central Valley Water Board partnered with the San Francisco Estuary Institute, Robertson-Bryan Inc, and Bend Genetics to re-submit a proposal for Proposition 1 funding for cyanobacteria toxin monitoring in clams. Proposition 1 funding decisions are expected at the end of March.

The nutrients assessment in Discovery Bay is continuing in 2020. A pilot project for bloom mitigation and microcystin (a type of cyanotoxin) management is anticipated for late summer or early fall. The project will take place near Discovery Bay in coordination with the Discovery Bay Community Foundation.

## **SAN JOAQUIN RIVER DISSOLVED OXYGEN TMDL IMPLEMENTATION**

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the Stockton Deepwater Ship Channel/San Joaquin River (SDWSC/SJR) Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. From 16 January through 13 March 2020 there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary.

On 14 August 2019, at the direction of the Board, the Executive Officer sent letters to three additional parties (Stockton East Water District, Friant Water Authority, and South Valley Water Association) requesting a plan to mitigate potential impacts on net oxygen demand in the DWSC, which could include participation in the voluntary funding agreement for the aeration facility. These parties are not currently part of the voluntary funding agreement for the aeration facility however, they contribute to reduce flows through the DWSC, a factor identified as contributing to the dissolved oxygen impairment. On 3 December 2019 and 22 January 2020, staff met with a representative of the Stockton East Water District (SEWD) to discuss the TMDL and actions to mitigate potential impacts on net oxygen demand in the DWSC. Board staff have also been corresponding with the other parties. A representative of the Friant Water Authority responded to the EO letter requesting further information about background studies and linkages of the dissolved oxygen impairments and the San Joaquin River Restoration

Program. A representative of the South Valley Water Agency sent a letter in October stating that a response to the EO letter would be forthcoming but has not yet been received.

More information on the SDWSC/SJR dissolved oxygen [TMDL Control Program](#) can be found here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/san\\_joaquin\\_oxygen/index.html](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.html))

## **OLD AND MIDDLE RIVERS DISSOLVED OXYGEN IMPAIRMENT**

A draft white paper detailing the extent of the dissolved oxygen impairment in Old and Middle Rivers along with contributing factors to the impairment and possible Board actions has been compiled by Board staff. The Department of Water Resources (DWR) was scheduled to submit a report detailing the temporary barriers' effects on dissolved oxygen in Old and Middle Rivers to the Central Valley Water Board in January 2020 to meet a requirement of the 401 certifications.

On 10 March 2020, Janis Cooke, Danny McClure and Micaela Bush met with DWR staff to discuss their progress on the report and preliminary findings. DWR and their consultant have made considerable progress on the report but will be requesting more time to ensure it is complete and fully reviewed. Once staff have reviewed the DWR report, the results and findings will be incorporated into the white paper and circulated for interagency and public comment. The contents of the white paper will be presented to the Board as an informational item at a future Board meeting in 2021.

## **TMDL/BASIN PLANNING**

### **PESTICIDE BASIN PLANNING/TMDLS**

#### **CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL**

On 8 June 2017, the Board adopted a Basin Plan Amendment which established a Control Program for Pyrethroid Pesticide Discharges throughout the Sacramento and San Joaquin River Basins, as well as Total Maximum Daily Loads (TMDLs) for pyrethroid pesticides in certain impaired water bodies. The State Water Board approved the 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.

The completion of baseline monitoring for pyrethroids by municipal stormwater and agricultural dischargers was originally required 2 years from the date of OAL approval, but this completion date has been extended as described below. The baseline monitoring for municipal and domestic wastewater dischargers will be conducted during their effluent characterization monitoring, which is required during the second year of

the 5-year NPDES permitting cycle. Analysis for pyrethroids during effluent characterization monitoring is expected to be added to permits for municipal and domestic wastewater dischargers beginning in June 2021.

The conditional prohibition established in the Control Program by the Amendment becomes effective 3 years from the date of OAL approval, on 19 February 2022.

In July 2019, the Executive Officer sent letters to these dischargers clarifying expectations for baseline monitoring and extending the monitoring deadlines for municipal storm water and agricultural dischargers by eight months to accommodate method development, time needed for monitoring and laboratory contracting, and dischargers annual monitoring cycles. Baseline monitoring for storm water and agricultural dischargers is now due to be completed by 19 October 2021. The letter also clarified that smaller municipal storm water dischargers could forego baseline monitoring, consider existing data adequately representative, and instead direct resources towards development of a management plan to reduce pyrethroid pesticide discharges. Board staff continue to work with dischargers through our regulatory programs to assist in compliance with these new requirements.

Board staff worked with the State Water Board's Environmental Lab Accreditation Program (ELAP) and commercial laboratories on the validation and accreditation of analytical methods for analysis of pyrethroids at concentrations low enough to meet the monitoring goals of the Control Program. The validation of these methods and accreditation of multiple commercial laboratories for these methods is expected to be completed in April 2020. Board staff have reviewed validation packages for four commercial laboratories that have developed new methods in coordination with ELAP. Two validation packages will be approved initially, and the remaining two validation packages will be approved after the laboratories complete the remaining elements needed for validation (expected summer 2020).

Board staff continue to develop the Pyrethroid Research Plan which was a Board action identified in the Pyrethroid Control Program to be completed by February 2021. The Research Plan will describe research needs to inform future iterations of the Control Program.

In February 2020, Board staff coordinated with the Central Coast and San Francisco Bay Boards and State Water Board staff and submitted comments to USEPA Office of Pesticide Program on the Proposed Ecological Mitigations for Pyrethroid Pesticides. Board staff discussed the proposed USEPA mitigations with the California Department of Pesticide Regulation and the California Stormwater Quality Association. Once the Ecological Mitigations for Pyrethroid Pesticides are finalized, USEPA registration will be changed accordingly in order to restrict the use these pesticides.

More information is available on the [Central Valley Pyrethroid TMDL and Basin Plan Amendment Website](#) and can be found here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/central\\_valley\\_pesticides/pyrethroid\\_tmdl\\_bpa/index.html](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html))

## **DIAZINON AND CHLORPYRIFOS REVIEW**

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

## **TRIBAL BENEFICIAL USES DESIGNATION**

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

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

6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 approving the 2018 Triennial Review with TBUs as a priority project.

After the Central Valley Water Board identified TBUs as a priority project, Central Valley Water Board staff initiated a Tribal Beneficial Uses Working Group with the other Regions and State Water Board Divisions to facilitate communication on this effort. The TBUs working group was established so that representatives from the nine Regional Water Boards could communicate and collaborate on TBUs and develop a process to add them to the respective Basin Plans. Board staff hosted the third TBUs working group meeting on 20 February 2020 and Colorado River and San Diego Board staff presented on the recent meetings in their respective Regions. Additionally, there was a discussion on the protocols and legal requirements associated with developing a Basin Plan Amendment to designate waterbodies for TBUs.

Board staff have also begun to develop a process for designation of TBUs and to solicit input from California Native American Tribes in the Central Valley.

## **PIT RIVER EVALUATION**

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

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

## **BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT**

The State Water Board is developing a statewide plan for control of biostimulatory substances as an amendment to the Water Quality Control Plan for Inland Surface Water, Enclosed Bays and Estuaries of California (ISWEBE Plan). The Amendment is expected to include numeric or narrative water quality objective(s) for biostimulatory substances and control options for point and non-point sources. If in narrative form, the objective would be accompanied by translators for biostimulatory substances and eutrophic conditions (e.g., total nitrogen, total phosphorous, and chlorophyll concentrations). The Amendment development is focused first on wadeable streams, followed by lakes and reservoirs and then lakes and estuaries. State Water Board staff anticipate releasing a draft Amendment for wadeable streams in 2020.

## **REGIONAL TEMPERATURE CRITERIA DEVELOPMENT**

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

## **SALINITY AND CV-SALTS**

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

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

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/salt\\_nitrate\\_mgtplan/](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/salt_nitrate_mgtplan/))

The Salt and Nitrate Control Program (SNCP) Basin Plan Amendment with supporting Staff Report and Substitute Environmental Documentation was adopted on

31 May 2018 (Resolution R5-2018-0034). [The Adoption Resolution with the final Staff Report and Basin Plan Amendment language](#) can be found here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/#saltnitrate\\_cp\\_bpa](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/#saltnitrate_cp_bpa))

On 16 October 2019, the State Water Board adopted a resolution approving the SNCP amendments, along with a directive for the Central Valley Water Board to adopt targeted revisions to the amendments within a year of their approval by the Office of Administrative Law (OAL). [Details on the targeted revisions](#) can be found in the State Board Resolution, which will be posted upon certification at:

([https://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/resolutions/res19.html](https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/res19.html))

The amendments were submitted to OAL on 3 December 2019 and approved on 15 January 2020. The Salt and Nitrate Program was finalized when the Notice of Decision was filed with the Secretary of Natural Resources Agency on 17 January 2020, except for the portions subject to the Clean Water Act, which will require approval by the USEPA.

Postcards notifying impacted permittees of the new regulations were mailed out in January 2020. The mailing of Notice to Comply letters are scheduled to begin in Spring 2020, after the Executive Officer extended the deadline from the end of March to the end of May due to COVID-19 response actions.

### **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 will be developing an updated project Work Plan for the fiscal year 2020/21.

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

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/mun\\_beneficial\\_use/](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/)).

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

MAA meetings with Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. On 9 March 2020, Anne Walters participated in the MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP). USBR's 2019/20 Work Plan was approved by the Central Valley Water Board in September 2019. USBR's 2019 Annual Report was submitted to the Central Valley Water Board in December 2019. The next quarterly MAA meeting is scheduled for 9 March 2020. [USBR's](#) documents are available at: (<https://www.usbr.gov/mp/ptms/>).

## **SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)**

### **LOWER AMERICAN RIVER BENEFICIAL USE ASSESSMENT**

The Lower American River has been listed as impaired due to indicator bacteria on California's 303(d) List. To keep the public and local agency partners informed about current conditions, SWAMP is collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. In addition, DNA source identification monitoring was conducted from August through September 2019 at ten river sites and two urban runoff locations in the Lower American River. Results from the DNA analysis were received in December 2019. The bird marker was the most frequently detected marker (14/24 samples) and the human marker was detected in a single sample. Additional DNA sampling will commence in late Spring of 2020.

### **SUMMER RECREATIONAL BENEFICIAL USE ASSESSMENTS**

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using E. coli as an indicator of fecal pollution. Board staff concluded its 2019 sampling in the Stockton Urban Waterways and the Upper San Joaquin River at the end of September. Board staff are currently developing monitoring plans for the 2020 season, which will include popular recreational spots in and around the Delta.

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

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/swamp/r5\\_activities/2019\\_r\\_bua/](https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/r5_activities/2019_r_bua/))

## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

### GENERAL ORDERS

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders staff seek to enroll the permittees under the general orders to streamline the permitting process. NPDES Tables 1 and 2, below, summarize the Notices of Applicability that were issued to date for Fiscal Year 2019/2020 (1 July 2019 and 29 February 2020) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order) and Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order).

#### NPDES PERMIT TABLE 1 –LIMITED THREAT DISCHARGES TO SURFACE WATERS

Facility	General Order Permit Number
Combie Reservoir Sediment and Mercury Removal Project (amended NOA)	R5-2016-0076-019
Sacramento Deep Water Ship Channel (amended NOA)	R5-2016-0076-036
Blue Oak Terrace Mutual Water Company Well #2 Project	R5-2016-0076-056
Westlake Community Construction Dewatering Project	R5-2016-0076-057
McClellan AFB Groundwater Treatment System	R5-2016-0076-059
McLaughlin Mine Treatment System	R5-2016-0076-031
Sacramento County Water Agency, Northgate 880 and Metro Air Park Drinking Water Systems Maintenance	R5-2016-0076-058

## NPDES PERMIT TABLE 2 - MUNICIPAL GENERAL ORDERS

Facility	County	General Order Permit Number
El Dorado Irrigation District, Deer Creek Wastewater Treatment Plant	El Dorado County	R5-2017-0085-006

## DAIRIES/CONFINED ANIMAL FACILITIES

### POULTRY DISEASE OUTBREAKS

Due to outbreaks of avian influenza and virulent Newcastle disease, staff has been suspending on-site inspections of poultry facilities at the request of the State Veterinarian. Recent communication from the State Veterinarian indicates that these outbreaks are still a concern in Southern California, including Kern County. Staff will continue to suspend poultry facility inspections in Kern County and follow personnel access and disinfection procedures recommended by the Department of Food and Agriculture when inspecting poultry facilities in other counties. If staff becomes aware of an imminent threat to water quality at a poultry facility in Kern County for which an inspection is necessary, we will coordinate with the Department of Food and Agriculture and follow any extra biosecurity procedures specified by them.

### CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program's FY2019/2020 performance target for facility inspections is 275. Staff have completed 210 inspections to date, which is consistent with the goal for this point in the fiscal year. Staff anticipates being able to meet the performance target.

### DAIRY POND LINER DESIGN REPORTS

Staff are reviewing design reports for several proposed digester pond double-liners from dairies to whom California Department of Food and Agriculture grants were awarded in 2019 under the Dairy Digester Research and Development Program.

The Program provides financial assistance for the installation of dairy digesters in California, resulting in reduced greenhouse gas emissions. Dairy digesters are a renewable technology that uses livestock manure to produce methane, which is a renewable source of electrical energy generation and transportation fuel. Grant awardees were announced in September 2019, resulting in 43 applicants receiving approximately \$67 million. Information about the [Dairy Digester Research and Development Program projects](https://www.cdffa.ca.gov/oefi/ddrdp/) is available at: (<https://www.cdffa.ca.gov/oefi/ddrdp/>).

## **DAIRY ENFORCEMENT**

The Central Valley Water Board's Prosecution Team reached a \$108,608 settlement with a Turlock dairy for violating waste discharge requirements by dumping dairy wastewater onto cropland last winter. The violations occurred in January and February of 2019. The January violation was for a discharge of approximately 96,000 gallons of manure slurry from Brasil Dairy #1. The February violation was for a discharge of approximately 156,000 gallons of wastewater from John Brasil Dairy #3. Neither of these were driven by crop needs, putting them out of compliance with the dairy's nutrient management plan. The \$108,608 penalty will be deposited into the State Water Board's Cleanup and Abatement Account. That account provides grants for the cleanup and abatement of pollution when no viable responsible parties are available to undertake the cleanup work

## **OIL FIELDS**

### **WASTEWATER SURFACE PONDS**

Central Valley Water Board Staff continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land, and to evaluate closure plans for produced wastewater ponds. On 28 January 2020, Central Valley Water Board staff notified R & R Resources in the Edison Oil Field that their NOI is incomplete, which included a memorandum identifying deficiencies and items that need to be included in a revised application.

Central Valley Water Board staff approved pond closure work for Chevron USA, Inc., in the Coalinga Oil Field and J & K Operating Company, LLC., in the Midway-Sunset Oil Field. Included in the approvals are requirements for the operators to submit Final Closure Reports to the Central Valley Water Board at the completion of the projects. Other pond closure work authorized by Central Valley Water Board staff included approval of a plan for the reuse of oil fields solids on roads by CMO Inc. on the Mitchel Lease in the Chico Martinez Oil Field; approval of a request by California Resources Production Corporation to remove a secondary containment feature on the Davis Lease in the McKittrick Oil Field and to remove a proposed drilling sump on the Tenneco-Boulder Lease in the Landslide Oil Field.

On 10 January 2020, Central Valley Water Board staff issued seven letters to various operators who are regulated by outdated WDRs stating that each operator needs to submit a NOI for coverage under a General Order by 10 March 2020. In addition, the letter states that if coverage under a General Order is not appropriate, the Operator needs to submit an application for coverage under individual WDRs.

In January 2020, Central Valley Water Board staff issued two separate notification letters to two operators that state they are in violation of their Cleanup and Abatement Order and are subject to administrative civil liability (ACL). Central Valley Water Board staff are working with the operators and may be presenting the ACLs at a future

boarding meeting. Since this is potentially an active enforcement measure, additional information is not available at this time.

## **SPILL RESPONSE**

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Central Valley Water Board staff were notified of 25 events in January and February.

A spill of crude oil and oil field produced wastewater occurred near well #357-35S on a facility operated by California Resources Corporation (CRC) in the Elk Hills Oil Field on 5 January. According to OES, internal corrosion on a non-DOT flow line caused the discharge of approximately 1 barrel (bbl(s)) (42 gallons (gals)) of crude oil and 9 bbls (378 gals) of produced wastewater to land. On 6 January CRC staff told Central Valley Water Board staff that cleanup of the affected areas was in progress. CRC 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 on 5 January. Central Valley Water Board staff requested CRC to provide photographs of the areas affected by the spill before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Rasmussen Lease operated by Chevron USA, Inc. (Chevron), in the Kern River Oil Field on 12 January. According to OES, a leaking flow line caused the discharge of approximately 0.1 bbls (4.2 gals) of crude oil and 0.8 bbls (33.6 gals) of produced wastewater into a dry stream bed. On 13 January Chevron staff told Central Valley Water Board staff that the discharge has affected approximately 75-feet of a dry stream bed. Chevron staff added that staff of the California Division of Geological Energy Management (CalGEM) inspected the spill site. Chevron staff provided Central Valley Water Board staff with photographs of the affected areas after cleanup on 14 January.

A spill of crude oil and oil field produced wastewater occurred on the 2SF Lease operated by Chevron in the Midway Sunset Oil Field on 6 January. According to OES, a leaking flow line caused the discharge of approximately 2.04 bbls (85.7 gals) of crude oil and produced wastewater into a dry stream bed. On 6 January Chevron staff told Central Valley Water Board staff that cleanup of the affected areas was in progress and that CDFW-OSPR staff inspected the affected areas and provided guidance regarding cleanup.

A spill of crude oil occurred on the KCL-E Lease operated by Grayson Services, Inc., (Grayson) in the Canal Oil Field on 15 January. According to OES, cattle rubbed against a power switch of a pump causing the discharge of approximately 2 bbls (84 gals) of crude oil to land. On 21 January Grayson staff told Central Valley Water Board staff that no dry stream beds or natural drainage courses have been affected by the spill. Grayson staff added that cleanup of the affected areas was complete and that CDFW-OSPR staff conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Belridge Complex facility operated by Aera Energy, LLC. (Aera), in the South Belridge Oil Field on 20 January. According to OES, a broken polish rod on a well caused the discharge of approximately 294 bbls (12,348 gals) of crude oil and wastewater to land on a well site. Aera staff told Central Valley Water Board staff on 21 January that the discharged fluids were contained to production pads and no dry stream beds or natural drainage courses have been affected by the spill. Aera staff added that cleanup of the affected areas was complete and that staff from CDFW-OSPR, CalGEM, and Kern County Environmental Health have inspected the spill site. Aera staff provided Central Valley Water Board staff with photographs of the affected areas after cleanup.

A spill of filtered produced wastewater occurred on the Station 36 facility operated by Chevron in the Kern River Oil Field on 21 January. According to OES, a valve failure caused the discharge of approximately 100 bbls (4,200 gals) of produced wastewater to roadways and a storm drain. The OES report also states that the discharged produced wastewater is unrecoverable, and that it is unknown to where the affected storm drain flows. Chevron staff told Central Valley Water Board staff on 21 January that the discharged fluids affected a public road and a storm drain and are unrecoverable. Chevron staff added that the discharged fluids are of the same type of produced water sent to the Cawelo Water District for mixing with irrigation water.

A spill of crude oil and oil field produced wastewater occurred on the Section 7 facility operated by Aera in the Coalinga Oil Field on 22 January. According to OES, a leak in a stuffing box on a wellhead caused the discharge of approximately 2 bbls (84 gals) of crude oil and 22 bbls (924 gals) of wastewater to land. Aera staff is to provide further information regarding this spill.

A spill of filtered oil field produced wastewater occurred on the Station 2-22 facility operated by Chevron in the Midway Sunset Oil Field on 25 January. According to OES, a pipeline failure caused the discharge of approximately 100 bbls (4,200 gals) of filtered produced wastewater into a dry stream bed. Chevron staff told Central Valley Water Board staff on 27 January that approximately 6 bbls (252 gals) of the total discharge affected the stream bed. Chevron staff also stated that the discharged fluids, which consisted entirely of softened wastewater percolated; therefore, no cleanup work is needed. Chevron staff added that CDFW-OSPR staff has not inspected the spill site.

A spill of oil field produced wastewater occurred on the KCL 12 facility operated by Crimson Resource Management (Crimson) in the Greeley Oil Field on 28 January. According to OES, a failure at an injection well caused the discharge of approximately 150 bbls (6,300 gals) of produced wastewater onto a surrounding farming property. On 28 January Crimson staff told Central Valley Water Board staff that no dry stream beds or natural drainage courses were affected by the discharged fluids. Crimson staff added that no oil was discharged, and Crimson will recover all free-standing produced wastewater from the affected areas. In a 28 January e-mail message, staff of CalGEM provided Central Valley Water Board with photographs of the areas affected by the spill. CalGEM staff stated that the discharged fluids consisted of produced wastewater from an injection well that affected agricultural lands. CalGEM staff added that CalGEM

inspected the spill site and observed vacuum trucks removing free-standing fluids from the affected areas.

A spill of crude oil and oil field produced wastewater occurred on the Cauley Lease operated by E & B Natural Resources (E&B) in the Poso Creek Oil Field on 27 January. According to OES, a power outage caused a storage tank to discharge approximately

3 bbls (126 gals) of oil and 500 bbls (21,000 gals) of produced wastewater onto a designated containment area. On 27 January, E&B staff told Central Valley Water Board staff that the discharged fluids were contained within the secondary containment surrounding the source tank. E&B staff added that the discharge has stopped, cleanup of the affected areas was in progress, and no stream beds or natural drainage courses were affected by the discharged fluids.

A spill of crude oil was reported on the Sheehan Lease operated by Caleco, LLC. (Caleco) in the Midway Sunset Oil Field on 31 January. According to OES, staff of the Bureau of Land Management (BLM) observed a well head leaking into a wastewater disposal pond resulting in an oil sheen covering an area approximately 15 feet by

30 feet of the fluids surface of a wastewater disposal pond. On 31 January, Caleco staff told Central Valley Water Board staff that a mechanical failure in a stuffing box of a well caused the spill and that approximately 0.024 bbls (1 gal) was discharged. Caleco staff added that the discharged oil flowed toward the pond which is approximately 80 feet from the source well. Caleco staff stated that the discharged oil affected the banks of the pond but did not enter the pond. Caleco staff said that the leak has been stopped and cleanup of the affected areas is complete. Staff of BLM and the CDFW-OSPR inspected the spill site multiple times.

A spill of crude oil occurred on the McKittrick Unit Lease operated by Sentinel Peak Resources California (Sentinel), in the Cymric Oil Field on 9 February. According to OES, an underground skim line leak caused the discharge of approximately 4 bbls (168 gals) of crude oil into a dry stream bed. On 11 February, Sentinel staff told Central Valley Water Board staff that the discharged fluids affected approximately 450 feet of the affected stream bed and that cleanup is almost complete. Sentinel staff stated that staff of the CDFW-OSPR inspected the spill site and will come back for a post-cleanup sign-off inspection. In a 15 February e-mail message, Sentinel staff provided photographs showing the conditions of the affected stream bed before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the 36W Lease operated by Chevron in the Cymric Oil Field on 9 February. According to OES, a flow line leak caused the discharge of approximately 6.9 bbls (290 gals) of oil and produced wastewater into land and a dry stream bed. Chevron staff told Central Valley Water Board staff on 12 February that the discharged fluids affected approximately 100 feet of the affected stream bed. Chevron added that cleanup of the affected areas is complete and staff of the CDFW-OSPR conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup.

A spill of crude oil occurred on the Section 1Y Lease operated by Chevron in the Cymric Oil Field on 10 February. According to OES, a stuffing box failure caused the discharge of approximately 0.012 bbls (0.5 gals) of oil into land and a dry stream bed. Chevron staff told Central Valley Water Board staff on 12 February that less than 1 bbl (42 gals) of crude oil affected a dry stream bed. Chevron staff added that cleanup of the affected areas was in progress and that staff of the CDFW-OSPR inspected the spill site. In a 13 February e-mail message, Chevron staff told Central Valley Water Board staff that staff of CDFW-OSPR were going to conduct a post-cleanup sign-off inspection of the affected areas on 13 February.

A spill of crude oil was reported on the Essex Lease operated by Caleco in the Midway Sunset Oil Field on 10 February. According to OES, staff of the CDFW-OSPR observed an unknown amount of oil on the fluids surface of a wastewater disposal pond. The OES report also states that staff of CalGEM reported to staff of CDFW-OSPR that Caleco will be conducting cleanup. The source of the spill is unknown but is likely that the oil is discharged to the disposal pond with the wastewater.

A spill of crude oil and oil field produced wastewater occurred on the Section 29G facility operated by CRC in the Elk Hills Oil Field on 12 February. According to OES, a flow line leak caused the discharge of approximately 1.1 barrels (bbl(s)) (46.2 gals) of crude oil and 10 bbls (420 gals) of produced wastewater to land. CRC staff told Central Valley Water Board staff on 12 February that the discharged fluids affected approximately 300 feet of a dry stream bed. CRC staff added that cleanup of the affected areas is in progress and that staff of the CDFW-OSPR inspected the spill site. According to CDFW-OSPR staff who have been monitoring the cleanup operations, the vertical extent of oil-affected soil is unknown as excavation depth in the affected stream bed has reached more than 5 feet in some locations where oil-affected soil is still encountered. CDFW-OSPR staff also stated that CRC is proposing to use chemicals to enhance the hydrocarbon biodegradation in the affected areas. In a telephone conversation on 5 March, Central Valley Water Board staff told CRC staff that the Central Valley Water Board does not approve the use of such chemicals in the stream bed, since the potential impacts to water quality and human health of the ingredients of these chemicals are not known. Central Valley Water Board staff also told CRC staff that a technical work plan to remediate the spill site in way protective of water quality and human health needs to be prepared and implemented.

A spill of oil field produced wastewater occurred on the Southwestern Lease operated by Berry Petroleum Company (Berry), in the Midway Sunset Oil Field on 13 February. According to OES, a steam generator line failure caused the discharge of approximately 30 bbls (1,260 gals) of produced wastewater into land. Berry staff told Central Valley Water Board staff on 24 February that approximately 3 bbls (126 gals) of the discharged wastewater affected the stream bed, most of which percolated. Berry staff added that no oil was discharged, and that Crimson will recover the free-standing fluids. Berry staff stated that staff of the CDFW-OSPR inspected the spill site.

A spill of oil and oil field produced wastewater occurred on the Panama Lease operated by Crimson in the Stockdale Oil Field on 14 February. According to OES, a failure on a

well header caused the discharge of approximately 1 bbl (42 gals) of oil and 0.48 bbls (20 gals) of produced wastewater to land. On 24 February Crimson staff told Central Valley Water Board staff that no dry stream beds or natural drainage courses were affected by the discharged fluids. Crimson staff added that cleanup was completed and that staff of CalGEM and Kern County Environmental Health inspected the spill site.

A spill of crude oil and oil field produced wastewater occurred on the SYC-20H facility operated by Chevron in the Kern River Oil Field on 16 February. According to OES, a stuffing box leak caused the discharge of approximately 1.3 bbls (54.6 gals) of oil and 105.3 bbls (4,422.6 gals) of produced wastewater into land. Chevron staff told Central Valley Water Board staff on 25 February that the discharged fluids affected have not affected any dry stream beds or natural drainage courses. Chevron staff added that cleanup of the affected areas is complete, and no agencies inspected the spill site.

A spill of crude oil and field produced wastewater occurred on the Panama 14 Lease operated by Crimson in the Stockdale Oil Field on 18 February. According to OES, a drain box between two tanks discharged between 500 and 800 bbls (21,000 and 33,600 gals) of crude oil to land. On 24 February Crimson staff told Central Valley Water Board staff that no dry stream beds or natural drainage courses were affected by the discharged fluids. Crimson staff added that cleanup was completed and that staff of CalGEM, CDFW-OSPR, and Kern County Environmental Health inspected the spill site. Crimson staff stated that cleanup which consists of recovering free-standing fluids and excavation of oil-affected soil is in progress. Crimson staff said that samples of the excavated waste have been collected for characterization.

A spill of crude oil occurred on a facility operated by Chevron in the Midway Sunset Oil Field on 19 February. According to OES, a stuffing box leak caused the discharge of approximately 1.54 bbls (64.7 gals) of oil into a dry stream bed. Chevron staff told Central Valley Water Board staff on 25 February that cleanup of the affected stream bed was completed and staff of the CDFW-OSPR have signed-off on the site cleanup.

A spill of crude oil occurred on the 21Z facility operated by Berry in the Midway Sunset Oil Field on 21 February. According to OES, a stuffing box failure caused the discharge of approximately 11 bbls (462 gals) of crude oil into land and a dry stream bed. Berry staff told Central Valley Water Board staff on 24 February that approximately 3 bbls (126 gals) of the discharged oil affected the stream bed while the rest of the discharged oil remained on a production pad. Berry staff added that Patriot Environmental Services crews were finishing up the cleanup activities. Berry staff stated that staff of the CDFW-OSPR conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup on 22 February.

A spill of crude oil occurred on the Section 19Z facility operated by Chevron in the Cymric Oil Field on 25 February. According to OES, a surface expression caused the discharge of approximately 0.1 bbls (4.2 gals) of oil to land. The OES report states that a berm was established to contain the discharge and netting will be applied to cover the containment area. The OES report also states that no dry stream beds have been affected.

A spill of crude oil occurred on the 13D Oil Cleaning Plant operated by Chevron in the Coalinga Oil Field on 26 February. According to OES, equipment failure caused the discharge of approximately 30 bbls (1,260 gals) of oil to into secondary containment. Staff of Chevron told Central Valley Water Board staff on 2 March that the discharged oil was entirely contained within secondary containment and no dry stream beds or natural drainage courses have been affected. Chevron staff added that cleanup of the spill has been completed. Chevron staff provided Central Valley Water Board staff with photographs of the affected area.

A spill of crude oil and oil field produced wastewater occurred on the Laymac Morris Lease operated by Atlantic Oil Company (Atlantic), in the Mountain View Oil Field on 28 February. According to OES, possible vandalism where a valve was closed causing the over-pressurizing of a gas system well line resulting in the discharge of approximately 0.12 bbls (5 gals) of oil and oil field produced wastewater to land. Atlantic staff told Central Valley Water Board staff that no dry stream beds or natural drainage courses have been affected. Atlantic staff added that cleanup of the affected areas have been completed.

## **FOOD SAFETY**

Under the Memorandum of Understanding between Food Safety dischargers and the Central Valley Water Board (MOU), GSI, Environmental, Inc. (GSI) completed three tasks related to the Food Safety Project (MOU Tasks). The MOU Tasks, which include crop sampling (Task 3), a literature review (Task 2), and compiling a list of constituents of interest (Task 1), are complete. In February 2020, the draft Task 2 Report was sent to the Food Safety Expert Panel (Panel) for review, and GSI was given comments from the Panel on the draft Task 3 report. GSI incorporates comments into the MOU Task reports as they are received. Updates to the Food Safety Project White Paper occur as MOU Task reports are revised due to comments from Panel members and staff.

On 21/24 February 2020, staff hosted a conference call with the Panel. During the call, the Panel discussed potential draft recommendations related to the Food Safety Project. Once finalized, the recommendations will be discussed during a public meeting and summarized in the White Paper.

On 25 February 2020, staff hosted a public meeting of the Panel in Rancho Cordova. During the meeting, GSI gave an update on the MOU Tasks and reports, staff discussed a summary of the November Food Safety Meeting, and a presentation was given by Dr. Avner Vengosh of Duke University. Dr. Vengosh and his team have conducted research on the reuse of produced water to irrigate food crops in Kern County. Thus far, conclusions in Dr. Vengosh's research aligns with the conclusions in the MOU Task reports. During the meeting, Staff announced that a Food Safety Project related field trip would be hosted by the Central Valley Water Board during the April Board meeting. Due to the COVID-19 emergency, the tour and Bakersfield meeting will likely be done at some point beyond summer of 2020.

## **UIC PROGRAM**

During the period from 6 January 2020 to 6 March 2020, staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

### **AQUIFER EXEMPTIONS**

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

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

Round Mountain South Aquifer Exemption – Staff met with State Water Board staff and staff of the California Geologic Energy Management Division (CalGEM) to discuss CalGEM's responses to Staff's and State Water Board's questions and concerns regarding the aquifer exemption application.

Deer Creek Aquifer Exemption – Staff met with State Water Board and CalGEM to discuss the deliverables still needed for the aquifer exemption. Staff provided State Board with a dataset of potential high capacity water supply wells that may be located within or near the aquifer exemption boundaries for CalGEM's evaluation as part of the aquifer exemption package.

### **UIC PROJECT REVIEWS**

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

Staff received project information relating to an Operator's request to add a total of six infill steamflood injection wells to a steamflood project in the McKittrick and Cymric Oil Fields; however, the project application was incomplete, and Staff issued a letter and memorandum detailing the reasons it could not complete a review.

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

Staff issued one no intent to comment letter for a UIC project in the Cymric Oil Field.

Staff issued one no-objection-with-conditions letter and memorandum for a UIC project in the Kern River Oil Field.

Staff sent its initial questions and concerns to CalGEM regarding potential impacts to groundwater quality for five injection projects in the South Belridge, Coalinga, Kern River, and Edison Oil Fields.

Staff are preparing an objection letter for a UIC project located in the Sutter City Gas Field.

Staff are preparing two no-objection letters for UIC projects located in the Lost Hills and Coalinga Oil Fields.

### **SENATE BILL 4 (SB-4) PROGRAM**

Since the last Executive Officer's Report, Board staff have completed two SB4 Well Stimulation Treatment (WST) Application package reviews and submitted written comments to the State Water Board. The two Application packages reviewed were for Chevron U.S.A. Inc.'s Lost Hills Oil Field. Each package consisted of plans for stimulating 12 wells.

Board staff reviewed the following: a Chevron U.S.A. Inc. work plan to decommission monitoring well TULMW04NWSE in the Lost Hills Oil Field; two separate California Resources Corporation work plans to add additional wells for planned stimulations in the Elk Hills Oil Field section 24 groundwater monitoring exclusion area; two separate Aera Energy LLC revised groundwater monitoring plan addendums for their Lost Hills Oil Field; a revised Addendum to groundwater monitoring related plans for California Resources Production Corporation's Northeast Expansion in the Buena Vista Nose area; and, two separate California Resources Corporation work plans to add additional wells for planned stimulations in the Elk Hills Oil Field section 31 groundwater monitoring exclusion area. Written comments were submitted to the State Water Board.

Staff conducted site visits to observe activities associated with the installation of a 2,000-foot-deep monitoring well in California Resources Corporation's Buena Vista Nose area. Staff also conducted site visits to observe activities associated with the drilling of an approximate 625-foot-deep exploratory boring in the Elk Hills Oil Field section 15R. The purpose of the boring was to identify if protected groundwater was present.

### **IRRIGATED LANDS REGULATORY PROGRAM**

#### **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 of the appropriate water quality limit within a 3-year period. This requires

development of a management plan by the Coalition and implementation of improved management practices by member growers. Implementation is deemed successful when the Coalition demonstrates: (1) at least three years of compliance with receiving water limitations; (2) documentation of third-party education and outreach to growers; (3) documentation of implementation of improved management practices; and (4) demonstration of management practice effectiveness.

## **WESTERN SAN JOAQUIN RIVER WATERSHED COALITION**

The Executive Officer approved completion of 43 surface water management plans on 14 February 2020 for the Western San Joaquin River Watershed Coalition. These plans were implemented in 12 watersheds for various constituents, including ammonia, aquatic toxicity, arsenic, chlorpyrifos, copper, diuron, HCH pesticide, malathion, molybdenum, nitrate, and sediment toxicity. More than three years of monitoring following implementation of management practices provided evidence that the changes made on farms in the watersheds were successful in addressing the exceedances.

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. 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; and use of vegetated ditches and field borders. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

## **Sacramento Valley Water Quality Coalition**

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

- DDE at Rough and Ready Pumping Plant (1/29/20)
- DDE at Coon Hollow Creek (2/11/20)
- DDE at Gilsizer Slough (2/11/20)

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: adopting efficient irrigation methods; use of shorter irrigation runs to manage flows; lengthen time between pesticide applications and irrigation events; use of amendments, deep ripping or aeration; and use of vegetated ditches and field borders. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

## **(ILRP) QUARTERLY STAKEHOLDER MEETINGS**

Central Valley Water Board staff holds regular ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The most recent meeting was held at the Madera Farm Bureau on March 12th and focused on coordination between SGMA, CV-SALTS and ILRP. More information regarding the [ILRP – Stakeholder Meetings and Workgroups web page](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.html) can be found at: (https://www.waterboards.ca.gov/centralvalley/water\_issues/irrigated\_lands/regulatory\_information/stakeholder\_advisory\_workgroup/index.html).

## **ADOPTED REVISIONS TO GRASSLAND BYPASS PROJECT WDRS**

On 5 December 2019, the Central Valley Water Board adopted Waste Discharge Requirements for San Luis & Delta-Mendota Water Authority and United States Department of the Interior Bureau of Reclamation Surface Water Discharges from the Grassland Bypass Project (Order R5-2019-0077) to permit discharges beyond 31 December 2019. The Order includes new requirements for annual stakeholder meetings, a presentation to the Central Valley Water Board on the status of the Grassland Bypass Project by December 2021, submittal of a Drainage Management Plan, and includes reopeners for items including new information about splittail deformities that may be caused by selenium.

## **EXPERT REVIEW OF ESJWQC SURFACE WATER MONITORING FRAMEWORK**

State Water Resources Control Board Order WQ-2018-0002 directed the Central Valley Water Board to convene an external expert review of the East San Joaquin Water Quality Coalition's surface water monitoring framework. Steve Weisberg of SCCWRP is facilitating the five-member panel external review. The first public Panel Meeting was held in January 2020, with two days at the Central Valley Water Board's Rancho Cordova office and one day touring the Coalition's monitoring locations. The Panel plans to reconvene from April 28 to 30. Additional panel and meeting information is available on the following website: [Expert Review Panel for the East San Joaquin \(ESJ\) Surface Water Quality Monitoring Program](https://www.sccwrp.org/about/research-areas/additional-research-areas/east-san-joaquin-expert-panel/)

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

## **LOW-THREAT ALTERNATIVE ILRP FRAMEWORK**

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

irrigated pasture that might could be used to support an exemption from the Irrigated Lands Regulatory Program.

## **ILRP OUTREACH, COMPLIANCE & ENFORCEMENT**

### **DRINKING WATER WELL MONITORING OUTREACH**

Outreach efforts continue for the drinking water well monitoring requirements in the East San Joaquin Water Quality Coalition (ESJWQC) and the Tulare Lake Basin. ESJWQC members were required to monitor drinking water wells on enrolled parcels in 2019. Tulare Lake Coalition members are required to start sampling in 2020. Board staff is continuing to work with members by providing guidance and answering questions.

ESJWQC members have just completed their first year of sampling. Over 2300 sample results have been submitted to Geotracker by approximately 1200 member/landowners, with about 32% exceeding the drinking water standard for nitrate.

Board staff is tracking notification submittal and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users accordingly. From January to February 2020, staff sent 128 letters to ESJWQC members/landowners reminding them of the notification requirement. This process has achieved 100 percent compliance. Board staff will continue with progressive enforcement actions as needed to obtain notifications.

In the Tulare Lake Basin Area, Board staff is continuing to work with members through emails, phone calls, and letters to ensure users of impacted wells are properly notified. As of the end of February 2020, there were 152 wells with nitrogen exceedances in the Tulare Lake Basin and staff have received 121 signed Drinking water Notification Templates (80% compliance). Staff have sent 19 letters to members/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

### **AGRICULTURAL PARCEL INSPECTIONS**

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

<b>Coalition Area</b>	<b>Parcel Inspections Jan 1- Feb 29</b>
Sacramento Valley	229
Total	229

<b>Coalition Area</b>	<b>Parcel Inspections Jan 1- Feb 29</b>
Coalition Area	Parcel Inspections Jan 1- Feb 29

### 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. During the inspection, staff reviews the farm evaluations, nitrogen management plans and sediment and erosion control plans and evaluates inspects the site conditions. This includes inspecting potential surface water discharge locations, pollution management practices, chemical storage and handling areas, and wellhead protection practices.

<b>Coalition Area</b>	<b>On-Farm Inspections Oct 1- Dec 31</b>
East San Joaquin	2
Westside San Joaquin	5
Sacramento Valley	20
<b>Total</b>	<b>27</b>

### WATER CODE SECTION 13260 DIRECTIVES

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

<b>Coalition Area</b>	<b>13260 Directives sent Oct 1- Dec 31</b>
Sacramento Valley	8
<b>Total</b>	<b>8</b>

### WATER CODE SECTION 13260 DROPPED-MEMBER DIRECTIVES

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

<b>Coalition Area</b>	<b>13260 Directives sent Oct 1- Dec 31</b>
East San Joaquin	61
San Joaquin & Delta	31
<b>Total</b>	<b>92</b>

## NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO 13260 DIRECTIVE

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

<b>Coalition Area</b>	<b>NOVs Mailed Jan 1- Feb 29</b>
East San Joaquin	17
<b>Total</b>	<b>17</b>

## COALITION ENROLLMENT SUMMARY

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program and will provide an information item during the June 2020 Board meeting to update the Board on our efforts. Board staff is currently using the newly released 2016 Department of Water Resources land use data along with other information including but not limited to current membership lists, know exemptions, dairy parcels and past inspection data. There are fluctuations in irrigated agricultural acreage due to various factors, including land use conversions, ownership transfers, and regulatory coverage in other programs, but this new effort should give us a clearer picture of the status of enrollment in the irrigated lands program.

## **SACRAMENTO VALLEY WATER QUALITY COALITION**

### **CALIFORNIA RICE COMMISSION**

On 19 February 2020, the California Rice Commission submitted the 2020 Rice-Specific Groundwater Assessment Report Update. This Update provides a review of relevant groundwater data collected since the Rice-Specific Groundwater Assessment Report was completed in 2013, and a determination on whether revisions to low- and high-vulnerability acreage boundaries are needed. Staff is currently reviewing the Update.

### **SACRAMENTO VALLEY WATER QUALITY COALITION**

On 30 January, the Executive Officer approved the management plan submitted to address *Hyalella azteca* sediment toxicity in Ulatis Creek.

The Executive Officer approved the completion of three management plans for DDE; one on 29 January for Rough and Ready Pumping Plant, and two on 11 February for Coon Hollow Creek and Gilsizer Slough.

## **SAN JOAQUIN RIVER WATERSHED COALITION GROUPS**

### **EAST SAN JOAQUIN WATER QUALITY COALITION**

On 31 January, the Executive Officer approved the 2020 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 2019 monitoring period

On 18 February, the Executive Officer approved the 2019 Five-Year GAR Update. The Coalition updated the groundwater high vulnerability areas based on all publicly available groundwater quality nitrate data.

On 1 March, staff received the Coalition's Quarterly Monitoring Data Report for the period July 1 through September 30, 2019.

On 6 March, the Coalition submitted an amendment form to update the Quality Assurance Project Plan. The Coalition proposes to update the surface water sampling Standard Operating Procedure for sediment sample collection. The amendment is currently under staff review.

### **SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION**

On 6 January, the Coalition proposed changes to its 2020 Water Year QAPP based on constituents identified through the PEP and scheduled for the 2020 WY as well as their associated analytical methods, Data Quality Objectives and Criteria.

On 15 January, the Coalition proposed a revised 2020 Water Year Monitoring Schedule. Changes to the 2020 WY monitoring schedule are based on monitoring data from June

through September 2019 (the original 2020 WY monitoring schedule was written based on monitoring data from October 2018 through May 2019). It is under staff review.

On 29 January, the Coalition submitted a request for completion of eight surface water quality management plans. It is under staff review.

On 3 February, the Executive Officer approved the Coalitions 15 January Monitoring Plan Update Amendment to include additional pyrethroid monitoring.

### **WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION**

On 13 February, the Coalition submitted a revised Sediment Toxicity and Pyrethroids Management Plan, which is under staff review.

On 14 February, the Executive Officer approved a Management Plan Completion Request for 43 management plans. These plans were implemented in 12 watersheds for various constituents, including ammonia, aquatic toxicity, arsenic, chlorpyrifos, copper, diuron, HCH pesticide, malathion, molybdenum, nitrate, and sediment toxicity. More than three year of monitoring following implementation of management practices provided evidence that the changes made on farms in the watersheds were successful in addressing the exceedances.

### **GRASSLAND DRAINAGE AREA COALITION**

The 2019 Annual Monitoring Report for the Grassland Drainage Area is due by 30 April 2020. The report will discuss the results of the second year of groundwater monitoring in the Grassland Drainage Area.

## **TULARE LAKE BASIN COALITION GROUPS**

### **KERN RIVER WATERSHED COALITION AUTHORITY**

On 4 March 2020 staff issued a letter to the Kern River Watershed Coalition Authority responding to a 2 December 2019 request to establish a reduced surface water monitoring schedule along the South Fork of the Kern River. In the letter, staff requested that the Coalition provide more specifics regarding the scope of the proposal by 29 May 2020.

### **KINGS RIVER WATER QUALITY COALITION**

On 20 January 2020 staff held a quarterly update meeting with the Kings River Water Quality Coalition in the Fresno office. The meeting topics included updates on Coalition activities, Groundwater Quality Trend Monitoring, Surface Water Monitoring, and an update on drinking water fill station installations.

## **WESTLANDS WATER QUALITY COALITION**

On 6 February staff met with Westlands Water Quality Coalition representatives for a quarterly meeting. Discussion topics included surface water monitoring updates, upcoming outreach activities, and an update of well status for groundwater quality monitoring.

## **OTHER PROJECTS**

### **DATA MANAGEMENT**

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

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

In March, the Kern River Water Quality Coalition surface water quality data was uploaded to CEDEN covering the period April 2014 through June 2017.

### **GRASSLAND BYPASS PROJECT**

On 25 February 2020, a 13267 Letter was issued to the San Luis & Delta-Mendota Water Authority and United States Department of the Interior Bureau of Reclamation, the Responsible Parties named by the Grassland Bypass Project Waste Discharge Requirements. The 13267 Letter requires additional review and reporting on historical fish tissue data from the Grassland watershed and water column monitoring performed in concurrence with the National Marine Fisheries Service. The first report is due 31 July 2021.

### **RICE PESTICIDES PROGRAM**

The 2019 Annual Monitoring Report and the California Rice Commission's recommendations for the 2020 monitoring season were submitted on 19 December 2019. A conditional approval of management practices for 2020 was provided on 24 February 2020. The approval is conditioned upon completion of an assessment of the relationship between performance goal exceedances, treated acreage, and drought/flow conditions from 2010 through 2020. The assessment must be included in the 2020 Annual Monitoring Report.

## NON-POINT SOURCE (NPS)

### CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

Staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Staff is in the process of drafting and sending enforcement orders to each responsible party to obtain this information. On 10 March 2020, staff issued a 13267 Order to U.S. Forest Service to obtain information regarding their load allocation.

On 15 January 2020, staff issued a 13267 Order to Irrigated Agriculture in response to their 9 January 2019 13267 letter to determine load allocation compliance. The new Order requires an updated load estimate based on recent irrigated agriculture surveys, updated management practices, and steps outlined in their response to the prior Order.

On 22 August 2019, a Time Schedule Order (TSO) request was submitted on behalf of Lake County MS4 co-permittees. On 13 December 2019, the Board issued a TSO to the permittees. The TSO includes a schedule of when the permittees will be in compliance with their load allocation. On 31 January 2020, staff received deliverables from the MS4 permittees regarding their best management practices. Staff is currently reviewing this information.

On 24 September 2019, staff sent USBLM a 13267 Order requesting information regarding compliance with their load allocation as well as post-fire management practices. On 17 December 2019, USBLM submitted a progress report outlining the steps they are taking to estimate their load reduction. USBLM also submitted a request for a three-month extension for the submittal of their final report. Staff is reviewing the request and will issue a letter with a determination.

On 10 October 2019, staff sent County of Lake a 13267 Order regarding their nonpoint source load allocation. On 31 January 2020, staff received their first deliverable from Lake County, which is a list of their management practices to reduce erosion into Clear Lake. Staff is currently reviewing this information.

On 11 March 2020, Jennifer LaBay and Taran Sahota attended the Blue-Ribbon Committee for the Rehabilitation of Clear Lake Meeting. The meeting focused on a 2020 workplan review and discussion, as well as an update on research occurring through the Committee. The Committee also received an update on the status of the 2019 funding request for recommendations outlined in the Annual Report. Meeting details are publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency's [Blue Ribbon Committee for the Rehabilitation of Clear Lake](#)

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

Staff is also coordinating with agencies, organizations, and Tribes in Lake County to develop a joint brochure focused on educating residents about nutrient management and steps they can take to reduce nutrient impacts/erosion into Clear Lake. Central Valley Water Board is acting as lead in this effort. The brochure is tentatively scheduled to be available to the public in spring 2020.

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

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/clear\\_lake\\_nutrients/index.html](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.html)).

## **CYANOBACTERIA BLOOMS UPDATE**

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

As part of the FHAB program, a California [Harmful Algal Blooms Portal](#) (<https://mywaterquality.ca.gov/habs/>) was developed and is supported on the California Water Quality Monitoring Council's [My Water Quality webpage](#) (<https://mywaterquality.ca.gov/index.html>).

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

## **WINTER 2019-2020 – CENTRAL VALLEY BLOOMS**

Cyanobacteria blooms typically occur from summer through late fall. However, blooms can occur in the winter, especially if temperatures are mild and nutrients are introduced from rainfall runoff. A summary of cyanobacteria blooms for the period of January 2020 to March 2020 is provided in Table 2.

**Table 2. Cyanobacteria Bloom Summary: January 2020 to March 2020**

<b>Category</b>	<b>Count</b>
Number of Suspected Blooms Investigated since previous EO Report	2
Number of Confirmed Blooms* since previous EO Report	3
Number of Continuing Blooms* from previous EO Report	0
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	3
Number of Human Illnesses Reported since previous EO Report (under investigation)	0
Number of Animal Impacts Reported since previous EO Report (under investigation)	0

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

## **CANNABIS**

### **GENERAL ORDER ENROLLMENT AND DEVELOPMENTS**

The Central Valley Regional Cannabis General Order (Regional General Order) was rescinded at the 7 June 2019 Central Valley Water Board Meeting, with an effective date of 30 June 2019. At the time of rescission approximately 259 enrollees lost coverage under the Regional General Order. Several of the enrollments that were administratively terminated have been prioritized for further follow up to ensure proper remediation has occurred, due to their continued threats to water quality.

Staff have been actively reviewing and processing enrollments under the Statewide General Order and have been continuing to conduct outreach and enrollment enforcement efforts to ensure eligible cultivators enroll in the Statewide General Order.

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

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

<b>County</b>	<b>CE</b>	<b>Tier 1L</b>	<b>Tier 1M</b>	<b>Tier 1H</b>	<b>Tier 2L</b>	<b>Tier 2M</b>	<b>Tier 2H</b>	<b>Total Active Enrollments</b>
County	CE*	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	3	17	4	0	5	2	0	31
Colusa	2	1	0	0	0	0	0	3
Contra Costa	1	0	0	0	0	0	0	1
El Dorado	0	2	0	0	1	0	0	3
Fresno	4	0	0	0	0	0	0	4

<b>County</b>	<b>CE</b>	<b>Tier 1L</b>	<b>Tier 1M</b>	<b>Tier 1H</b>	<b>Tier 2L</b>	<b>Tier 2M</b>	<b>Tier 2H</b>	<b>Total Active Enrollments</b>
Lake	13	89	3	0	74	2	1	182
Merced	4	0	0	0	0	0	0	4
Nevada	12	155	3	2	5	0	0	177
Sacramento	128	0	0	0	0	0	0	128
San Joaquin	0	0	0	0	0	0	0	0
Shasta	0	0	0	0	0	0	0	0
Siskiyou	4	0	0	0	0	0	0	4
Sierra	0	2	0	0	0	0	0	2
Kern	1	0	0	0	0	0	0	1
Solano	4	0	0	0	0	0	0	4
Stanislaus	14	6	0	0	2	0	0	22
Tulare	6	0	0	0	0	0	0	6
Yolo	2	19	0	0	46	0	0	67

**OUTREACH**

Staff attended an outreach event on January 23<sup>rd</sup> with the El Dorado County CEO’s office in coordination with CDFW, and CDFA. Topics discussed included public outreach and enrollment enforcement, as well as the County’s progress in licensing cultivators in their jurisdiction.

Staff attended an educational outreach event on February 20<sup>th</sup> in Yuba County in coordination with the South Yuba River Citizen League staff, providing input regarding water quality considerations of cannabis cultivation.

Staff attended a meeting on February 28<sup>th</sup> in Calaveras County with Calaveras County Division of Cannabis Permitting.

Staff attended an outreach event in Nevada County on March 5<sup>th</sup> in coordination with Nevada County Code Enforcement.

Staff attended an outreach event in Calaveras County on March 6<sup>th</sup> put on by Calaveras County Division of Cannabis Permitting. The content included coordination, presentation of the General Order, and Q&A.

## **COMPLIANCE AND ENFORCEMENT – ENROLLMENT ENFORCEMENT**

### **Enrollment Enforcement**

On October 16<sup>th</sup>, approximately 25 Notices of Violation were issued for cultivators in Nevada County who failed to follow through on previously issued Water Code Section 13260 directive letters.

On February 26, 91 enrollment enforcement letters were issued in the North Rock Creek subwatershed of the Yuba River, in Nevada County.

### **Compliance**

On January 22<sup>nd</sup>, staff performed three permit compliance inspections in Calaveras County.

On January 24<sup>th</sup>, staff performed one permit compliance inspection in Yolo County.

On February 6<sup>th</sup>, staff performed three permit compliance inspections in Yolo County.

On February 11<sup>th</sup>, staff performed three permit compliance inspections in Nevada County.

On February 12<sup>th</sup>, staff performed two permit compliance inspections in Nevada County.

On March 3<sup>rd</sup>, staff performed three permit compliance inspections in Colusa County.

### **Enforcement**

On January 30<sup>th</sup>, staff performed an enforcement inspection in Shasta County.

On February 11<sup>th</sup>, staff performed an enforcement inspection in Shasta County.

On February 11<sup>th</sup>, staff performed an enforcement inspection in Nevada County.

On March 5<sup>th</sup>, staff performed two enforcement compliance inspections in Calaveras County.

## **GRANTS**

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

Approximately \$4 million is available for the 2020 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. NPS proposals will be reviewed and scored within the next few months

and applicants will be notified in Spring/Summer 2020 For more information, please visit the [NPS website](#):

([https://www.waterboards.ca.gov/water\\_issues/programs/nps/319grants.html](https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html)).

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

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

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

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

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the generation and transport to waterbodies of agricultural chemicals, sediment, and nutrients from sites within the Sacramento-San Joaquin Delta. (Closing 8/22/2022)

## **PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH**

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

\*On 14 January, Jennifer Fuller participated in a meeting of the Delta Tributaries Mercury Council (DTMC). Jennifer provided updates on the review of the Delta Mercury Control Program and associated TMDL, including AB 52 letters having been sent for tribal consultation requests, a CEQA scoping meeting anticipated for summer of 2020, and the upcoming control study review panel and advisory panel occurring in late 2020.

On 15 January, Alex MacDonald presented an update on the Aerojet Superfund Site at a meeting of the Aerojet Community Advisory Group. The primary topic of the update was the plan for Aerojet to construct a consolidated waste management unit on the former White Rock Road North Dump property, currently owned by Aerojet. The waste management unit would be built to Title 27 requirements for a Class II landfill. The waste management unit will receive soils from a former Aerojet landfill that is being clean closed. The waste management unit will be constructed and closed within approximately 2-years. It will act as the final cover for a portion of the old White Rock Road North Dump, with closure of the remaining portion taking place at a later date after resolution of wetland and endangered species issues. The new consolidation unit will

operate under waste discharge requirements and a Sacramento County permit, CEQA is being led by the Regional Board staff efforts and it is anticipated that the Mitigated Negative Declaration and Waste Discharge Requirements will come to the Board in August 2020. Board staff also presented an update of field activities for the Aerojet project.

\*On 30 January, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 31 January, Russell Walls and Warren Gross attended the Madera County Environmental Crimes Task Force meeting.

On 4 February, Robert Ditto and Phil Carter attended the East San Joaquin Coalition grower meeting in Madera to present information on the new drinking water monitoring requirements for nitrates. Approximately 350 were in attendance.

On 7 February, Robert Ditto, Phil Carter and Wes Ouimette attended the East San Joaquin Coalition grower meeting in Modesto to present information on the new drinking water monitoring requirements for nitrates. Approximately 850 were in attendance.

\*On 11 February, Jeff Hannel attended the Fresno Environmental Reporting Network (FERN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 12 February, Zaira Lopez-Navarez attended an outreach event hosted by the Westlands Water Quality Coalition at the Fresno County Farm Bureau. The meeting focused on informing members of program requirements and water quality issues. The event also included a presentation from guest speaker Robert Hutmacher on soil and irrigation water amendments to address sodic soil and infiltration issues.

On 19 February, Robert Ditto and Phil Carter attended the East San Joaquin Coalition grower meeting in Merced. Robert presented information on the new drinking water monitoring requirements for nitrates. Approximately 550 were in attendance.

On 20 February, Eric Warren presented at a Workshop hosted by Fruit Growers Laboratory, Inc. in Exeter, CA. The presentation provided attendees an overview of the Irrigated Lands Regulatory Program and its requirements, with specific focus on completion of the Irrigation and Nitrogen Management Plan (INMP) and INMP Summary Report, drinking water supply well monitoring, and the upcoming CV-SALTS requirements.

On 25 – 27 February, staff from the Water Quality Certification Unit and Non-Point Source Unit attended Water Quality Certification & Wetlands Program Staff Training at State Water Resources Control Board. The objective was to train staff on the technical and administrative aspects of the State Wetland Definition and Procedures for

Discharges of Dredged or Fill Material to Waters of the State (Procedures) to build the knowledge foundation needed to implement the Procedures consistently statewide.

\*On 27 February, Omar Mostafa attended the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 3 March, Eric Warren presented at a CDFA Nitrogen Management Training for Certified Crop Advisors in Fresno, CA. The presentation provided attendees an overview of the Irrigated Lands Regulatory Program and its requirements, with specific focus on completion of the Irrigation and Nitrogen Management Plan (INMP) and INMP Summary Report, drinking water supply well monitoring, and the upcoming CV-SALTS requirements.

On 5 March, George Low a Senior Engineering Geologist with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III meeting conducted in Tehama County. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, plan and provide training for emergency response incidents resulting from chemical hazards within the Region. This month's meeting discussed membership recruitment for opens representatives on the committee. The Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee. The meeting also included upcoming regional trainings, a presentation about by the Department of Toxic Substance Control's response to the March 2019 Sonoma Floods, and agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

On 9 March, Christine Joab and Jennifer LaBay attended the California Cyanobacteria and Harmful Algal Bloom (HAB) Network meeting. Network meetings are scheduled quarterly to discuss activities related to the state's Freshwater and Estuarine HAB Program.

\*On 10 March, Jeff Hannel attended the Fresno Environmental Reporting Network (FERN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 11 March, Sue McConnell, Susan Fregien, and Dana Kulesza attended and presented at the Nursery Nitrogen Management Pilot Workshop in Winters, CA. The Workshop was organized by the UC Nursery and Floriculture Alliance as part of a research project funded by the CDFA Specialty Crops Block Grant and Fertilizer Research and Education Program, the Horticultural Research Institute, and the Plant California Alliance. Additional workshops will be scheduled for nursery growers in the Irrigated Lands Regulatory Program.

On 11 March, Jennifer LaBay and Taran Sahota attended the Clear Lake Blue Ribbon Committee meeting held in Sacramento.

\*On 12 March, Omar Mostafa, Dale Harvey, and Clay Rodgers met with Terra Bella residents in Terra Bella to discuss odor issues relating to the Setton Pistachio facility.

On 13 March, Janis Cooke participated in a meeting of the San Francisco Bay Nutrient Management Strategy Steering Committee. The committee received updates on factors controlling dissolved oxygen in lower South Bay and ship-based monitoring. The committee began discussion of projects for the FY2021 program plan.

## **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.

In fiscal year (FY) 18/19, The Delta Regional Monitoring Program (DRMP) approved the Work Plan and allocated funding for the Aquatic Science Center (ASC) to complete the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP). ASC is working to incorporate laboratory-specific details into the QAPP and SAP and will solicit for comments from the Technical Advisory Committee before final approval. Ambient CEC sampling is planned to begin in the second or third quarter of 2020 after the QAPP and SAP are approved.

# PERSONNEL AND ADMINISTRATION

## STAFFING UPDATES – JANUARY 1, 2020 – FEBRUARY 28, 2020

### PROMOTIONS:

Kathleen Gilman – AGPA  
Alex Olsen – Senior EG  
Jason Schroeder – Senior EG

### LEAVE OF ABSENCE:

Lixin Fu

### RETIREMENT:

Amy Terrell  
Steve Rosenbaum  
Patrick Morris  
Guy Chetalat  
Alan Cregan  
Marie McCrink

### SUMMARY OF POSITIONS:

**Total Authorized Positions:** 275.7

**Total Vacant Positions:** 22.5

#### **Sacramento**

Authorized Positions: 148  
Vacancies: 9.5

#### **Fresno**

Authorized Positions: 76  
Vacancies: 5

#### **Redding**

Authorized Positions: 51.7  
Vacancies: 8

### **Separations:**

Andrew Altevogt – C.E.A  
Mark Bare – EG  
Marcus Ellison – EG  
Trevor Goines – WRCE  
Thomas Gavigan – EG

Malar Perinpanayagam – WRCE

**Temporary Positions:**

None

**New Hires:**

Micaela Bush – WRCE  
Saranya Elankova – WRCE  
Denise Hil l– AGPA  
Rebecca Hipp – ES  
Brandon Salazar – WRCE

**TRAINING UPDATES - JANUARY 1, 2020 – FEBRUARY 28, 2020**

<b>Class Title</b>	<b>Number of Attendees</b>
2020 California Plant and Soil Conference	1
2020 Multi-State Salinity Coalition Annual Salinity Summit	1
24 Hour HAZWOPER	4
8 Hour HAZWOPER Refresher Training	1
Budget Change Proposal Training	2
Connecting the Science to Managing LNAPL Sites: 3 Pt. Series Part 1	1
Connecting the Science to Managing LNAPL Sites: 3 Pt. Series Part 2	1
Connecting the Science to Managing LNAPL Sites: 3 Pt. Series Part 3	1
Courtroom Testimony Workshop for Environmental Enforcement	1
Editing	7
Electronic RPA Overview	17
Field Safety Training	2
Geosynthetic Line and Cover Design	9
Geotechnical Stability of Waste Fills....	1
Leadership for the Government Manager	1
Maintaining a Respectful Work Environment	3
Mastering Grammar	11
ProUCL Utilization 2020: Part 1: ProUCL A to Z	1
ProUCL Utilization 2020: Part 2: Trend Analysis	1
Remediation Management of Complex Sites	1
Risk Communication	6
Seismic Design Review	1
State Wetland Definition & Procedures Waters of the State	2
Supervisor's Health and Safety	7
Time Management	1
Trash Datathon 2020 Event Series Kickoff	1

<b>Class Title</b>	<b>Number of Attendees</b>
VerdeXchange Conference	1
WQC Staff Training (Classroom)	19

## **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**

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
17-084-150, Amendment 1	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services, Redding Office	05/24/2018	09/30/2020	\$60,000
20-012-150	TBD	Helicopter aerial surveillance services (Consolidated Region 5 contract – SB 901 funds)	TBD	TBD	\$185,000
20-026-150	TBD	Fixed wing aircraft - Aerial surveillance services	7/1/2020	6/30/2023	\$60,000

### **WATER QUALITY STUDY/PLANNING**

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
16-074-150, Amendment 3	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	03/31/2020	\$443,511
17-022-150	Department of Water Resources	Ongoing operation and maintenance – SWAMP.	07/01/2017	06/30/2020	\$180,000
17-054-150	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP).	01/09/2018	06/30/2020	\$154,191

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
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	Department 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
18-055-150	Moore Twining Assoc. Inc.	Lab services (Fresno office)	08/15/2018	06/30/2021	\$195,000
18-057-150	UC Davis	Interpretation of Soil Chemistry	07/01/2018	01/31/2020	\$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	03/31/2021	\$400,000

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
18-071-150	Basic Laboratory, Inc.	Emergency lab services, Carr Fire	07/26/2018	06/30/2020	\$400,000
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	\$110,000
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	\$249,806
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	3/31/2022	\$510,000
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	6/30/2022	\$89,900
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	3/31/2022	\$525,000

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	TBD	11/30/2023	\$250,000

## **FUTURE BOARD ACTIVITIES**

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 Board activities per program

### **JUNE 2020 BOARD MEETING**

#### **NPDES PROGRAM- PERMITTING**

Collins Pine Chester Sawmill Renewal  
 City of Sacramento Combined WW Collection/TRT System Renewal  
 City of Turlock Regional WQCF Renewal

#### **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND**

City of Corcoran WWTF, Revised WDRs  
 Horizon Nut, Revised WDRs  
 Gerawan Farms Plant #3, New WDRs  
 UC Davis Hydraulics Lab, Revised WDRs  
 Wonderful Pistachios Firebaugh Plant, New WDRs  
 Olson Meats, Revised WDRs  
 Bronco Winery, Revised WDRs

#### **IRRIGATED LANDS REGULATORY PROGRAM**

Information item on ILRP enrollment status and next steps

### **AUGUST 2020 BOARD MEETING**

#### **NPDES PROGRAM – PERMITS**

City of Manteca WQCF Renewal  
 Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)  
 Nevada CSD No. 1 Lake of the Pines WWTP Rescission

Shasta Lake WWTP Rescission  
Stallion Springs Community Services District WWTF Rescission

### **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND**

City of Kettleman WWTF, Revised WDRs  
Grimmway Enterprises, Inc., Revised WDRs  
Lange Twins Winery, Revised WDRs  
GloriAnn Corn Processing, New WDRs  
Greenville Wastewater Ponds, Revised WDRs  
Redding Regional Septage, Revised WDRs

### **OCTOBER BOARD MEETING**

#### **NPDES PROGRAM – PERMITTING**

Municipal General Order Amendment  
Donner Summit Public Utility District WWTP Renewal  
Mariposa Public Utility District WWTF Rescission  
UC Davis Main WWTP Rescission  
Nevada CSD No. 1 Cascade Shores WWTP Rescission  
Nevada CSD No. 1 Lake Wildwood WWTP Rescission  
Thunder Valley Casino WWTP Rescission

### **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND**

GloriAnn Corn Processing, New WDRs  
Greenville Wastewater Ponds, Revised WDRs  
Redding Regional Septage, Revised WDRs

#### **IRRIGATED LANDS REGULATORY PROGRAM**

Resolution regarding Alternative Regulatory Framework for Goose Lake Watershed

### **PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING**

#### **NPDES PERMITS**

Sixteen-to-One Mine Renewal  
Mountain House CSD WWTP Amendment  
City of Galt WWTP & Reclamation Renewal  
City of Rio Vista Northwest WWTF Renewal  
Olivehurst Public Utility District WWTP Renewal  
Sierra Pacific Industries, Quincy Division Renewal  
Washington Mine Renewal  
Sacramento Regional Wastewater Treatment Plant Renewal  
Bell Carter Industrial WWTP Renewal

## **WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND**

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 Madera WWTF (Revised WDRs)  
City of Manteca 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 Liberty Winery (New 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)  
Maxwell PUD (Revised WDRs)  
Mokelumne Rim Vineyards (Revised WDRs)  
Sun Maid Raisins Orange Cove (Revised WDRs)

## **OTHER SIGNIFICANT CENTRAL VALLEY WATER BOARD PLANS, PERMITS & POLICIES UNDER DEVELOPMENT**

### **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.

### **DEVELOPMENT OF PERMIT FOR FEDERAL NON-POINT SOURCE (NPS) ACTIVITIES ON FOREST LANDS**

The Central Valley Water Board is working with the Lahontan Water Board to develop similar permits to cover NPS activities on USFS and BLM managed lands with the potential to affect water quality. The Central Valley Water Board's MS4 permit is being used as a model. 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/](http://www.waterboards.ca.gov/lahontan/water_issues/programs/nps/federal_lands/)).

## **WASTE DISCHARGE REQUIREMENTS GENERAL ORDERS FOR SMALL DOMESTIC WASTEWATER TREATMENT PLANTS, NUT AND SEED DRYING OPERATIONS, AND FOOD PROCESSORS**

The Central Valley Water Board's Waste Discharge Requirements Unit has identified three groups of discharges that are similar in nature and make up a significant number of backlogged permits that need to be updated. The three groups include: domestic wastewater treatment plants that treat more than 100,000 gpd, nut and seed drying operations, and food processors. The adoption of the new General Orders will not only result in increased regulatory consistency, but it will also significantly cut down on our permitting backlog as we enroll facilities under the new General Orders

**ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY**  
**Sanitary Sewer Overflow (SSO) Spills – 1 January 2020 through 29 February 2020**

<b>Spill Cause</b>	<b>Count of Spill(s)</b>	<b>Percent (%)</b>
Root Intrusion	87	46.5%
Debris-General	36	19.3%
Grease Deposition (FOG)	15	8.0%
Debris-Wipes/Non-Dispersables	9	4.8%
Debris-Rags	8	4.3%
Pipe Structural Problem/Failure	7	3.7%
Pump Station Failure-Mechanical	5	2.7%
Vandalism	4	2.1%
Operator error	4	2.1%
Debris from Lateral	3	1.6%
CS Maintenance Caused Spill/Damage	3	1.6%
Other	2	1.1%
Pump Station Failure-Controls	1	0.5%
Pipe Structural Problem/Failure - Installation	1	0.5%
Debris from Construction	1	0.5%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	0.5%
<b>Total</b>	<b>187</b>	<b>100%</b>

**Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 January 2020 through 29 February 2020**

<b>Office</b>	<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>	<b>Total</b>
5F	2	2	12	16
5R	2	1	5	8
5S	14	2	147	163
<b>Total</b>	<b>18</b>	<b>5</b>	<b>164</b>	<b>187</b>

**Category 1:** Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee’s sanitary sewer system failure or flow condition that:

- Reach surface water and/or reach a drainage channel tributary to a surface water; or
- Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).

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

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

**Category 1 and 2 Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 1 January 2020 through 29 February 2020**

REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5F	Madera County Public Works Department - Special Districts	MD-8A North Fork CS	865472	Category 1	Willow	Madera	Yes	300,000	300,000	2/8/2020	Vandalism
5S	Colfax City	Colfax CS	865548	Category 2	South Main Street Clean Out	Placer	No	5,270	0	1/19/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864130	Category 1	258978	Sacramento	Yes	4,773	4,756	1/7/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864101	Category 1	258660	Sacramento	Yes	3,706	3,587	1/5/2020	Grease Deposition (FOG)
5F	Springville PUD	Springville PUD CS	864016	Category 2	35467 Tule River Drive,	Tulare	No	3,000	0	1/1/2020	Debris-General

REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
					Springville, Ca 93265-Manhole						
5R	Portola City	Portola CS	865206	Category 2	289 E. Quincy Ave.	Plumas	No	2,500	0	2/23/2020	Debris-Rags
5S	Jackson City	City of Jackson CS	864574	Category 1	Picardo Ln	Amador	Yes	1,578	1,578	1/27/2020	Grease Deposition (FOG)
5S	Auburn City	City of Auburn CS	864446	Category 1	10901 Blocker Drive	Placer	Yes	1,575	1,575	1/27/2020	Other (specify below)
5F	Tuolumne Utilities District	Tuolumne Utilities District CS	865057	Category 2	20470 West Walnut Sonora, CA	Tuolumne	No	1,166	0	2/10/2020	Pipe Structural Problem/Failure - Installation
5S	Santa Nella CWD	Santa Nella CWD CS	864873	Category 2	Bay View Lift Station	Merced	No	1,000	0	2/17/2020	Pump Station Failure-Mechanical
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864718	Category 1	260726	Sacramento	Yes	866	774	1/28/2020	Root Intrusion
5R	Red Bluff City	Red Bluff CS	864434	Category 1	580 So Main	Tehama	Yes	367	357	1/23/2020	Vandalism
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864716	Category 1	260807	Sacramento	Yes	296	179	2/4/2020	Debris-Wipes/Non-Dispersables

REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	865328	Category 1	262043	Sacramento	Yes	214	199	2/27/2020	Debris-General
5F	Twain Harte CSD	Twain Harte CSD CS	864576	Category 1	Black Hawk and Twain Harte dr	Tuolumne	Yes	150	150	1/30/2020	Debris-Wipes/Non-Dispersables
5S	Placerville City	Hangtown Creek CS	864113	Category 1	659 MAIN ST.	El Dorado	Yes	105	20	1/8/2020	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864049	Category 1	258639	Sacramento	Yes	81	67	1/3/2020	Root Intrusion
5S	Hidden Valley Lake CSD	Hidden Valley Lake CS	864250	Category 1	Guard shack, Mountain Meadow North	Lake	Yes	75	75	1/16/2020	CS Maintenance Caused Spill/Damage
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864428	Category 1	260052	Sacramento	Yes	48	24	1/24/2020	Debris-General
5R	Red Bluff City	Red Bluff CS	864435	Category 1	214 Cedar	Tehama	Yes	41	40	1/24/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864310	Category 1	259580	Sacramento	Yes	41	40	1/16/2020	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864327	Category 1	259719	Sacramento	Yes	32	13	1/18/2020	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864256	Category 1	259563	Sacramento	Yes	25	23	1/16/2020	Root Intrusion