

**EXECUTIVE OFFICER'S REPORT**

**17 JUNE 2021**

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

**Patrick Pulupa, Executive Officer**



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## SUCCESS STORIES

### UNDERGROUND STORAGE TANKS – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

Following are sites where Board staff concluded that residual hydrocarbons do not pose a threat to human health and safety or anticipated future beneficial uses of water. This decision is generally based on site-specific information provided by the responsible party and assumes that the information provided was accurate and representative of site conditions. Most of these cases have been evaluated in accordance with criteria in the State Water Board's Low-Threat Underground Storage Tank (UST) Case Closure Policy (*Low-Threat Closure Policy*). Upon completion of corrective action, section 2728(d)(2) of Title 23 of the California Code of Regulations requires public notification that corrective action has been completed and the regulatory agency does not intend to require additional investigation and cleanup. This document serves to provide public notification for the completion of corrective actions.

For more information regarding a site, the appropriate office personnel should be contacted: Fresno (559) 445-5116, Redding (530) 224-4845, and Sacramento (916) 464-3291.

#### FRESNO

##### MINARETS EXXON, 32917 ROAD 222, NORTH FORK, MADERA COUNTY

The site was a commercial gasoline service station from the 1920's until 1969, and from 1976 until 1994. A soil investigation in 1990 detected petroleum hydrocarbons near the USTs and dispensers. Three gasoline and one diesel USTs were removed in December 1994 with gasoline and diesel constituents detected in soil samples. In 2001, the local agency referred the case to the Water Board for regulatory oversight. Multiple phases of soil, soil gas and groundwater assessment were conducted from 1990 through 2017.

Groundwater occurs in shallow sediments and deep fractured granitic bedrock. Five shallow and three deep groundwater monitoring wells were installed onsite and offsite. Historical groundwater monitoring results of shallow wells, conducted from August 2007 through December 2019, indicated elevated concentrations of petroleum constituents immediately downgradient of the former UST location. Other shallow and deep monitoring well sample results indicated low to trace concentrations.

An undocumented hydrocarbon mass was removed during the UST system removals. In March and April 2015, approximately 672 cubic yards of impacted soil was removed for disposal. In September through November 2019, an estimated 1.65 gallons of floating product was removed with absorbent socks.

The site has been remediated to the extent practicable. The contaminant plume in groundwater appears to be stable and/or decreasing, and no further action regarding this release is necessary. Any remaining petroleum hydrocarbons should continue to

naturally attenuate and should not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The release met Low-Threat Closure Policy criteria and was closed on December 29, 2020.

**PISTORESI CHEVROLET, 442 ROBERTSON BOULEVARD, CHOWCHILLA, MADERA COUNTY**

The site is currently vacant and was formerly an automotive dealership. In March 1990 one 1,000-gallon gasoline tank, one 550-gallon waste oil tank and all associated piping and fuel dispensers were removed. Analytical results of soil samples collected beneath the USTs indicated that a release had occurred. Soil investigations from June 1990 through December 2007 determined petroleum hydrocarbon migration to a depth of at least 50 feet, where groundwater was encountered. Groundwater monitoring was conducted from December 2007 through February 2018. Soil vapor extraction and air sparging (SVE/AS), from November 2011 through January 2013, and September 2014 through February 2016, removed approximately 3,353 gallons of petroleum hydrocarbons. The estimated remaining mass of 29.5 gallons of hydrocarbons should not likely pose a threat to human health and safety or the environment. The release met Low-Threat Closure Policy criteria and was closed on January 5, 2021.

**CAMPOS SERVICE STATION AND MINI MART, 508 NORTH STATE STREET, EARLIMART, TULARE COUNTY**

In September 1999 two 6,000-gallon USTs were removed from the currently operating fueling station during a site upgrade. Soil samples collected beneath the USTs were analyzed for petroleum products and indicated a release. Soil investigation determined petroleum product constituents had migrated to a depth of at least 100 feet. Groundwater monitoring from May 2013 through June 2018 confirmed groundwater impact and defined the extent and stability of the plume. An undocumented volume of contaminated soil was removed to a depth of 12 feet during UST removals. A soil vapor extraction system, operating from February 2016 to June 2016, removed an estimated 3,323 gallons of petroleum constituents from the subsurface. The remaining hydrocarbons should not likely pose a threat to human health and safety or the environment. The release met Low-Threat Closure Policy criteria and was closed on October 14, 2020.

**ELDERWOOD MARKET, 37611 MILLWOOD DRIVE, WOODLAKE, TULARE COUNTY**

In June 1989 and September 1991 three USTs were removed from the site, which is currently utilized as a juice processor and retail store. Analysis of soil samples collected beneath the USTs indicated that a release had occurred. Soil investigations from July 2006 through September 2018 determined that petroleum hydrocarbons extended to a depth of 48 feet. Approximately 7,742 gallons of petroleum constituents were estimated to remain in 5,000 cubic yards of soil. Groundwater monitoring from January 2007 through April 2018 defined the extent and stability of the contaminant plume. Approximately 8,048 gallons of petroleum hydrocarbons were removed from the

subsurface by soil vapor extraction from March 2011 through January 2017. The remaining hydrocarbons should not likely pose a threat to human health and safety or the environment. The case was closed in accordance with criteria contained in the Low-Threat Closure Policy on November 24, 2020.

### **WILLIE'S MARKET, 690 NORTH ELMWOOD AVENUE, LINDSAY, TULARE COUNTY**

The Site has been an operating service station with a convenience store since 1970. Tulare County Environmental Health Services Division regulated the case from December 1998 till June 2016. Analytical results of soil samples from soil borings in December 1998 indicated elevated concentrations of petroleum hydrocarbons. Two 10,000-gallon gasoline USTs were removed in 2012. Analytical results of soil samples detected elevated concentrations of petroleum hydrocarbons beneath all USTs and dispensers. Multiple phases of soil assessment and soil gas sampling were conducted from 1998 through 2018. Groundwater monitoring was conducted from shallow and deep wells from July 1999 through June 2019. A soil vapor extraction remediation system operated from April 2013 through November 2016 removed approximately 5,828 gallons of gasoline hydrocarbons.

The Site has been remediated to the extent practicable. The groundwater contaminant plume appears to be stable and/or decreasing, and no further action regarding this release is necessary. Remaining petroleum hydrocarbons at the Site should continue to naturally attenuate and not adversely impact environmental quality, the beneficial uses of groundwater, or pose an unacceptable risk to human health. The case satisfies the criteria contained in the Low-Threat Closure Policy and was closed on September 25, 2020.

### **SACRAMENTO**

#### **CALIFORNIA HIGHWAY PATROL, 50 CANYON CREEK, GOLD RUN, PLACER COUNTY**

In May 2019, California Highway Patrol (CHP) removed a 6,000-gallon UST, product piping, and a dispenser island. A groundwater sample collected during UST removal activities contained petroleum hydrocarbon constituents including, ethanol, naphthalene, and benzene. In February 2020, CHP assessed the vertical and lateral extent of petroleum hydrocarbon impacts related to the former UST. CHP adequately characterized soil and groundwater 50 feet in the apparent down and cross groundwater flow directions and reported no petroleum hydrocarbon constituents in groundwater above their laboratory detection limits. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on November 4, 2020.

### **SIEBOLD CONSTRUCTION, 820 S. AMERICAN STREET, STOCKTON, SAN JOAQUIN COUNTY**

Siebold Construction removed an 8,000-gallon gasoline UST from the Site in 1989 and removed a 1,000-gallon diesel UST and a 2,000-gallon gasoline UST from the Site in 1990. An Unauthorized Release Report was filed with San Joaquin County Environmental Health Department in 1989 following the removal of the 8,000-gallon UST. Historical Site information indicates that limited excavation was performed around the 8,000-gallon and 2,000-gallon USTs, though no report(s) of tank removal have been located. Between 1997 and 2018, Siebold installed/advanced eight monitoring wells, two temporary soil gas sampling points, and seven soil borings on and around the Site property. While no active remediation has been performed at the Site, and hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the Low-Threat Closure Policy, and the case was closed on December 8, 2020.

### **ATWAL SITE, 9501 HIGHWAY 70, MARYSVILLE, YUBA COUNTY**

Atwal Site is a vacant parcel at 9501 Highway 70 in Marysville (Site). The Site was a gasoline station before 1950. On behalf of the property owner, Hancock Petroleum removed two petroleum USTs in 2005. During the UST removals, Applied Engineering and Geology, Inc. (AEG) collected soil samples from beneath the former dispenser and the USTs. The Yuba County Environmental Health Department reported an unauthorized release based on petroleum hydrocarbons detected in the soil samples. AEG completed a Site investigation in December 2005. Central Valley Water Board staff enrolled the case in the Emergency, Abandoned, and Recalcitrant (EAR) funding program. GHD consultants completed a soil and groundwater investigation in January 2020. Natural degradation and attenuation of petroleum hydrocarbons in soil and groundwater remediated the Site. GHD concluded that the residual petroleum in soil and groundwater are unlikely to pose a risk to current and future receptors. Central Valley Water Board staff concurred with GHD that closure of the case under the Low-Threat Closure Policy was appropriate. Following the public notification, Central Valley Water Board staff closed the case on January 12, 2021.

### **RAINBOW LODGE PROPERTY, 50080 HAMPSHIRE ROCKS ROAD (HWY 40), EMIGRANT GAP, PLACER COUNTY**

The Rainbow Lodge and tavern is located in the Sierra Nevada, approximately seven miles west of Soda Springs, California. In 1992, the Lodge discovered an oil seep at the bank of the South Yuba River, near a historical 10,000-gallon heating fuel UST. The Lodge conducted soil, groundwater, and surface water investigations assessing impacts from the unauthorized release. In 2000, the Lodge installed a permanent rock wall barrier system (riprap) along the west bank of the Yuba River and in October 2002 removed a 10,000-gallon heating fuel UST. The Lodge remediated the Site by injecting 17,300 gallons of hydrogen peroxide solution; removing petroleum hydrocarbon

impacted soil (200 cubic yards); and recovering 10.3 gallons of liquid phase hydrocarbons. McGinley and Associates, Inc. concluded that the dissolved petroleum hydrocarbon plume is decreasing and remains stable and that residual petroleum hydrocarbons do not pose a significant threat to the Yuba River and groundwater. In September 2020, The Lodge destroyed the 10 remaining monitoring wells. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on January 21, 2021.

### **SIERRA SUPER STOP #2, 2968 HIGHWAY 49, COOL, EL DORADO COUNTY**

Sierra Super Stop #2 currently operates as a fueling facility dispensing regular, plus, and super unleaded gasoline, and diesel #2. In May 2005, Sierra Energy discovered an unauthorized petroleum hydrocarbon release within a UST spill bucket. In September 2007, Sierra Energy completed an unauthorized petroleum hydrocarbon release report following the discovery of petroleum hydrocarbon impacted soil below the dispenser island. Since 2009, E2C Remediation (E2C) has evaluated soil and groundwater impacts installing 15 groundwater monitoring wells, which were routinely monitored and sampled. E2C removed approximately 4,000 gallons of petroleum hydrocarbons completing 22 high vacuum extraction (HVE) pilot tests and 137 HVE events. E2C concluded the TPH plume is decreasing and remains stable and that residual petroleum hydrocarbons do not pose a significant threat to groundwater. In October 2020, E2C destroyed the 16 remaining monitoring wells. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on January 12, 2021.

### **HELIOSTOCKTON PROPERTY, 434 MARTIN LUTHER KING JR. BOULEVARD, STOCKTON, SAN JOAQUIN COUNTY**

During the performance of Phase 1 Environmental Site Assessment, Heliostockton LLC discovered that a Shell petroleum fueling facility had historically operated at the Site, though the location of the UST(s) is not known. Heliostockton LLC performed a Phase II Site assessment and detected hydrocarbons beneath the Site. Shell performed subsequent Site assessment. Between 2017 and 2019, Heliostockton LLC and Shell installed 5 groundwater monitoring wells and 2 sub-slab soil gas probes, and advanced 15 soil and groundwater borings. While no remedial actions have been performed, and hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the Low-Threat Closure Policy, and the case was closed on January 30, 2021.

**VERN'S GROVELAND CHEVRON, 18707 MAIN STREET, GROVELAND,  
TUOLUMNE COUNTY**

The Site is currently a vacant gasoline service station with vacant buildings located on the east corner of Main Street and Powder House Street in Groveland. The Site is surrounded by mixed-use commercial property with residential properties located northwest and southeast of the Site. In October 1993, Oil Equipment Service (OES) on behalf of Mr. Vernon Lunetta removed three 3,000-gallon gasoline USTs and two 1,000-gallon diesel USTs from the Site. Petroleum-impacted soil and grab groundwater samples collected during the tank removal indicated an unauthorized petroleum release. In November 1993, OES over-excavated impacted soil in the vicinity of the former USTs to a depth of 11 feet below ground surface and removed 115 cubic yards of soil from the Site. From February 1998 to December 1999 Clayton Environmental Consultants (Clayton) operated a dual-phase extraction remediation system at the Site. Between January 2002 and June 2004, the system extracted groundwater and soil vapor, and Clayton injected 800 pounds of oxygen-releasing compound through 20 injection points. Remediation activities removed an estimated 4,200 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 and that the Site meets the Low-Threat Closure Policy. The petroleum hydrocarbon release from the Site poses a low threat to local water supply wells, surface water, and human health. Central Valley Water Board staff concurred with case closure and closed the case on 29 January 2021.

**SIERRAVILLE SERVICE AND COUNTRY STORE, 126 SOUTH LINCOLN STREET,  
SIERRAVILLE, SIERRA COUNTY**

The Site is an active service station in Sierraville. In October 2016, McGinley & Associates, Inc. (McGinley) discovered a petroleum release while dewatering the Site for replacement of the underground storage tanks (USTs). McGinley treated the impacted groundwater and discharged the water under a discharge order. In November 2016, L.A. Perks removed three 4,000-gallons gasoline USTs, associated piping, and dispensers. Al Pombo, Inc. excavated 720 cubic yards of impacted soil from the UST area in November 2016 and 60 cubic yards of impacted soil from the adjacent Caltrans culvert in March 2017. Based on stockpile soil sample analytical data, the excavated soil contained approximately 161 pounds of petroleum hydrocarbons. McGinley conducted subsurface investigations, delineated the petroleum plume, and monitored the petroleum plume in groundwater for four consecutive quarters. McGinley concluded that the residual petroleum is unlikely to pose a risk to current and future receptors. Central Valley Water Board staff concurred and issued a no further action letter for case closure on 15 March 2021.



**WEST SACRAMENTO COMMINGLED PLUME NO. 0051 CASES:**

**CHEVRON #9-6726, 4800 WEST CAPITOL AVENUE WEST SACRAMENTO, YOLO COUNTY**

**FORMER EPOCH TRUCK STOP, 4790 WEST CAPITOL AVENUE WEST SACRAMENTO, YOLO COUNTY**

The comingled Site is comprised of active ARCO (formerly an Epoch-branded truck stop) and Chevron service stations in West Sacramento, California. In February 1993, Epoch relined their gasoline and diesel USTs and reported petroleum impact in soil. Epoch removed and remediated approximately 900 cubic yards of petroleum impacted soil and 11,127 gallons of petroleum impacted groundwater. In March 1998, Chevron removed three 10,000-gallon gasoline USTs and associated piping and reported petroleum impact in soil. During the UST removals, Chevron removed 2,800 cubic yards of petroleum impacted soil and approximately 390,000 gallons of petroleum impacted groundwater. Chevron and Epoch conducted soil and groundwater investigations evaluating the extent of petroleum impacts, and in 2010, the two cases became the West Sacramento Commingled Plume No. CP0051. Stantec concluded that the petroleum plume is decreasing, and that residual petroleum is unlikely to pose a risk to current and future receptors. Central Valley Water Board staff concurred with Stantec that closure of the Site under the Low-Threat Closure Policy was appropriate. Central Valley Water Board staff closed the cases on 18 May 2021.

**LOT X CITY OF SACRAMENTO REDEVELOPMENT SITE, 201 “N” STREET, SACRAMENTO, SACRAMENTO COUNTY**

The Site is currently used as a parking lot and green space, located on the northwest corner of the intersection of “N” Street and “3rd” Street in Sacramento, Sacramento County. Future land use is anticipated to be mixed use residential and commercial. In September 2004, a Phase 1 Environmental Assessment identified historic use of gasoline and oil facilities at the Site and potential impacts from historic railroad activities in the vicinity of the Site; a Phase 2 investigation was recommended based on the identified historic land uses. Petroleum hydrocarbon and lead impacts were detected during subsequent soil and groundwater investigations. The Department of Toxic Substances Control (DTSC) provided environmental oversight for the investigation of metals at the Site. No analyzed petroleum constituents remain in shallow soil above established human health screening levels. Only TPH-G, TPH-D, and TPH-MO remain in groundwater at maximum concentrations of 100 mg/L, 890 mg/L, and 560 mg/L, respectively. Active remediation was not performed. Residual petroleum hydrocarbons are expected to attenuate naturally without migrating beyond their current extent. Stantec concluded that the residual petroleum is unlikely to pose a risk to current and future receptors. Central Valley Water Board staff concurred and issued a no further action letter for case closure on 18 May 2021.

## SITE CLEANUPS

### SACRAMENTO

#### ROUGH AND READY ISLAND, BLDG #508-1 ows, SAN JOAQUIN COUNTY

The Site Cleanup Program, Federal Facilities unit issued a No Further Action Required letter for a Port of Stockton oil-water separator (OWS) site at Building 508. Building 508 was formerly occupied by a contractor for the Navy and was used for general cleaning of equipment. The OWS was installed in 1986 and ceased operations in 2001. Non-petroleum compounds were not identified as constituents of concern and the site meets criteria of the Low-Threat Underground Storage Tank Case Closure Policy.

## STAFF RECOGNITION

### SUPERIOR ACCOMPLISHMENT AWARD (INDIVIDUAL)

At the April 2021 and May 2021 All Staff Meetings, Executive Officer Pulupa presented Superior Accomplishment Awards and Employee Recognition Awards to the following staff:

**EMPLOYEE: KATIE GILMAN**

**UNIT:** Water Quality Certifications Unit

**LOCATION:** Redding Office

**TITLE:** Engineering Geologist

**SUPERVISOR:** Lynn Coster, Sr. Environmental Scientist

The Central Valley Water Board's Redding office management team is pleased to select Katie Gilman for the Superior Accomplishment Award. Katie joined the Water Board as an Engineering Student in May 2016 in the Groundwater Unit and then filled an Associate Government Program Analyst Position in the Cannabis Unit in November 2017. While working full-time, Katie earned a degree in geology from Southern New Hampshire University in 2019 and joined the Water Quality Certifications Unit as an Engineering Geologist in February of 2020.

Despite the challenges of training for her new position while teleworking due to COVID, Katie quickly came up to speed with the Water Quality Certifications program and is an asset to the unit. Katie effectively communicates with dischargers and colleagues and has assisted in training a new staff member who joined the unit in August. Always eager to get involved, Katie volunteered to represent Region 5 on a State Water Resources Control Board committee that was formed to discuss new Water Quality Certification procedures. Most recently, Katie volunteered to work on the certification of a meadow restoration project and has taken on the challenge of learning the Central Valley Water Board's responsibilities as the CEQA lead agency.

In addition to Katie's core work duties she has been instrumental in developing several databases and maps, often on short notice, for other units throughout the office. Katie

has recently assisted the Nonpoint Source Unit with map development and maintenance of a GIS based prioritization system that has assisted with workload planning and outreach efforts.

Katie always has a great attitude and her program knowledge is valued. She is most deserving of recognition for her work and her contributions to the Central Valley Water Board.

**EMPLOYEE: MARGIE SALDANA**

**UNIT:** Administration

**LOCATION:** Rancho Cordova Office

**TITLE:** Office Technician

**SUPERVISOR:** Brett Braidman, Operations Supervisor

This Superior Accomplishment Award (SAA) is to be awarded to Margie Saldana, whose incredible dedication in so many areas -- not just the front desk -- has helped the Central Valley Waterboard maintain excellence in mail preparation, file reviews, ECM distribution, invoice and office supply support, mail and front office phone support --- and Margie does all this while providing first rate customer service to staff, the public, vendors, mail delivery personnel, and to all those who call the main office number.

Since becoming full-time as an Office Tech in January 2018, Margie has made the front desk her own and has functioned as the Admin Lead for Seasonal Clerks -- training several clerks in the following areas: producing timely and accurate red folders, arranging file reviews for public record requests, answering the phone and accurately disseminating the calls to appropriate staff. Since the retirement of Della Kramer in October 2020, Margie has learned how to receive and approve Region 5 invoices, handle report of collection duties, process incoming checks, make bank deposits, and create library indexes for board adopted orders. Margie is receiving this SAA based in part on her incredible work ethic and high capacity to learn new skills and excel in multiple functions.

Her work product is superior, her sense of dedication to her work is incredibly high, and Margie does not shy away from learning something new and then training others in those areas. Margie has provided outstanding assistance and support to staff while also learning new tasks during the challenging time of the COVID pandemic -- adding emphasis to Margie's accomplishments. We are very fortunate to have Margie working at the Central Valley Waterboard and she is well deserving of this award.

**SUPERIOR ACCOMPLISHMENT (TEAM) AWARD**

**EMPLOYEE: JOSHUA MAHONEY/REBECCA ASAMI/DALE HARVEY**

**UNIT:** Enforcement and Oil Fields

**LOCATION:** Redding Office

**TITLE:** WRC Engineer/Engineering Geologist/Supervising WRC Engineer

**SUPERVISOR:** Clay Rodgers, Assistant Executive Officer

In 2015, Central Valley Water Board (CVWB) staff convened a Food Safety Expert Panel (Panel) to provide input on a project (Food Safety Project) to investigate whether reuse of oil field produced water to irrigate crops for human consumption posed a threat to the public health. As part of the Project, the CVWB entered into a Memorandum of Agreement with the permittees (oil companies and the water districts using the produced water). The MOA required the completion of three studies or tasks and the completion of specific task reports. The scopes of the tasks were discussed by the Panel at several public meetings from 2015 through 2020. Task 1 was the identification of chemicals of interest (COIs) and a preliminary hazard assessment. Task 2 was an evaluation of the COIs and potential hazards. Task 3 was an evaluation of crop sampling results for the COIs. A third-party consultant completed the task research and reports with input from the Panel, Board staff, and an engineer from Lawrence Berkeley National Laboratories contracted by the CVWB as a Science Advisor for the Project.

During the subject period, Joshua and Rebecca with oversight by Dale worked tirelessly to draft the cumulative document for the project, a White Paper, for presentation at the CVWB's February meeting. The White Paper summarizes the state of science and research related to the use of produced water to irrigate crops for human consumption, identifies data gaps, and presents the Panel's recommendations on the practice. As such, it is an important contribution to the science available on the practice. To complete the White Paper for presentation to the CVWB, they critiqued the consultant's Task reports and coordinated with the consultant, Panel, and Science Advisor to finalize the reports. They also drafted, redrafted, and drafted again the White Paper with coordinated input from the consultant, Panel, and Science Advisor to ensure the document presented to the CVWB captured the complexities of the Project and summarized the compiled information and results in a readable, coherent fashion.

Joshua and Rebecca with oversight by Dale compiled an agenda package, and on 18 February 2021 presented the White Paper to the CVWB as an informational item. The presentation was excellent and well received by the CVWB. The CVWB also presented to each of the 11 Panel members resolutions of appreciation drafted by Rebecca. The time it took this team to complete the above assigned tasks was much shorter than anticipated.

The above accomplishments were partially in addition to the normal work completed by the group. They went above and beyond for this specific item/event, and the White Paper will aid not only the CVWB, but also the State and public in general. Joshua, Rebecca, and Dale are deserving of the quarterly SAA.

## **EMPLOYEE RECOGNITION AWARDS**

**EMPLOYEE: CHARLES CARDENAS**

**UNIT:** Confined Animal Regulatory Unit

**LOCATION:** Rancho Cordova Office

**TITLE:** Engineering Geologist

**SUPERVISOR:** Danny Gamon, Sr. Engineering Geologist

Charles has recently gone above and beyond his regular workload to assist his new Supervisor in revising internal tracking spreadsheets and project lists and importing dairy information into GeoTracker. By performing complex queries and macros the lists were merged and staff were assigned to their facilities in a format compatible with GeoTracker. This new spreadsheet solution will provide better metric and management analysis. His solution to the problem has saved time and effort by not having to use other staff resources. This support was provided on a very fast turnaround request and was done while Charles continued to complete his regular workload during a very busy time of the year.

**EMPLOYEE: BRANDON SALAZAR**

**UNIT:** Dredge/Fill

**LOCATION:** Fresno Office

**TITLE:** Water Resource Control Engineer

**SUPERVISOR:** Matt Scroggins, Sr. Water Resource Control Engineer

Brandon is a Water Resource Control Engineer in the Fresno office and works in the dredge/fill program. Brandon entered the program in an extraordinary year where multiple significant events impacted the program. He approached these events with a positive attitude and an inquisitive mind. Within his first two months he had to adapt starting his new job while teleworking due to the COVID pandemic. The dredge/fill program began implementing new, landmark statewide procedures in June. These procedures adopted by State Board, for the first time in the state's history, specifically defines what constitutes a wetland and set forth specific procedures for regulating activities to protect wetlands and other waterways. Last year our office, by a wide margin, received a record number of dredge/fill applications. Brandon managed to produce water quality certifications in a timely manner all the while learning the program. New federal regulations went into effective last September that has radically changed the process and shortened the timeframe to issue water quality certifications. Recent staff retirements placed an increased workload on Brandon who is now the sole dredge/fill staff for the Fresno office.

In addition to these challenges, Brandon, on his own initiative, worked to create a GIS-based tool to display key information on dredge/fill sites throughout our entire region. He recently presented this tool to our other offices, and it was well received. This tool has the potential to help prioritize program work and quickly visualize active sites.

Brandon's willingness to roll up his sleeves and dig into program issues while also moving things forward is very much appreciated. He is frequently looking for ways to improve program efficiency. We are very fortunate to have Brandon working at the Central Valley Water Board, and he is well deserving of this recognition.

**EMPLOYEE: ANGELA NGUYEN-TAN**

**UNIT:** 401 Water Quality Certification and Dredging Unit

**LOCATION:** Rancho Cordova Office

**TITLE:** Environmental Scientist

**SUPERVISOR:** Stephanie Tadlock, Sr. Environmental Scientist

Angela is an Environmental Scientist working in the 401 Water Quality Certification and Dredging Unit. She was brought on with the Regional Board in November of 2019 and quickly picked up the nuances and complexities of the position. Just as Angela was in the middle of training for the new Wetlands Procedures that brought significant changes to the program, as well as, beginning to take on more complex projects, the office went to full time teleworking as a result of the COVID-19 Pandemic. This sudden shift in work environment was difficult for staff and management throughout the office, but Angela's work continued to move forward with a great deal of efficiency. She managed to maintain the same or higher level of productivity as she had when working in the office full time and even grew more productive as teleworking continued. She worked with staff on increasingly more complicated projects, such as assisting as the Regional Water Board representative for the South Sacramento Habitat Conservation Plan Interagency Review Team and working with the Army Corps of Engineers on programmatic projects that are being designed and planned to occur over the next several years. With a staffing change last fall, Angela was able to step into a more active role in more project heavy areas of the region that needed to be re-assigned. She offered her assistance to help complete projects in areas where there was a staffing shortage. Her efforts to help maintain the high productivity and efficiency within a high-volume workload unit has more than exceeded the work plan duties for her position.

Angela has met and exceeded all expectations for the unit, which is especially impressive in the midst of an unanticipated shift in work environment. She has stepped into her position with a high level of professionalism, efficiency, and knowledge that has allowed her to be highly respected among stakeholders, consultants, and agencies we work with on a regular basis. Her enthusiasm, hard work, and willingness to go above and beyond what is asked of her is greatly appreciated and she is very deserving of the Employee Recognition Award.

**EMPLOYEE: MARK CLARDY**

**UNIT:** Federal Cleanup Unit

**LOCATION:** Rancho Cordova Office

**TITLE:** Engineering Geologist

**SUPERVISOR:** John Murphy, Sr. Engineering Geologist

Mark Clardy is an Engineering Geologist in the Federal Cleanup Unit and responsible for providing technical oversight of hydrogeologic investigations, soil and groundwater characterization, and remediation of sites with soil and groundwater pollution, or threat of pollution at former Department of Defense (DOD) and private facilities in our region. Mark joined the Central Valley Water Board in 2005 after spending several years in the private environmental consulting industry.

Mark's knowledge and understanding of the CERCLA process along with his extensive technical knowledge is essential to the Federal Cleanup unit. Mark's case load primarily includes DOD sites with most of his time devoted to cleanup oversight at Beale Air Force Base. The DOD facilities are particularly complex, with several operable units, multiple contaminants of concern in various media, emerging contaminants of concern

(e.g. PFAS), and significant hydrogeologic challenges. Regulation of these facilities requires close coordination with multiple regulatory agencies in addition to the DOD and their consultants. Most notably, Mark effectively coordinates with the Department of Toxic Substances Control (DTSC) to provide unified state responses to DOD activities.

Over the past year, Mark has undertaken a significant increase in workload due to prolonged vacancies in the Site Cleanup Program. Taking on additional case work while also adapting to work amidst a global pandemic and changes in management was a challenge, but Mark has excelled in every possible way to meet the needs of the program. Mark rapidly came up to speed on entire military facilities, including Castle Air Force Base and the Dixon Naval Radio Telecommunications Facility, while still maintaining his already full Beale schedule. Mark has never missed a deadline, effectively communicates with both internal and external stakeholders, and ensures cleanup activities move forward.

Mark's experience and technical knowledge, comprehensive understanding of the site cleanup process at Federal facilities, and ability to effectively interact with stakeholders has been vital to the Site Cleanup Program. Mark consistently executes high quality and professional work and is a wealth of institutional knowledge for the program. For this and much more, Mark is well-deserving of this Employee Recognition Award.

**EMPLOYEE: SEAN WALSH**

**UNIT:** Confined Animal Regulatory Unit

**LOCATION:** Rancho Cordova Office

**TITLE:** Environmental Scientist

**SUPERVISOR:** Danny Gamon, Sr. Engineering Geologist

For the last several months, Sean has consistently provided outstanding technical and regulatory support as part of the Confined Animals enforcement team's productive efforts to bring several dairies into compliance with the Dairy General Order. His attention to detail and vast knowledge of how the dairies operate were instrumental to the team's success in adopting several uncontested Cease and Desist Orders. In addition to his work on these formal enforcement orders, Sean continued to inspect other dairies and perform other duties in a busy unit that is currently under-resourced.

**EMPLOYEE: THERESA WESTPHAL**

**UNIT:** NPDES Compliance and Enforcement

**LOCATION:** Rancho Cordova Office

**TITLE:** Scientific Aid

**SUPERVISOR:** Xuan Luo, Sr. WRC Engineer

Theresa Westphal is a Scientific Aid in the NPDES and Forest Activities unit in the Compliance and Enforcement section and has been with the Board since March 2019.

Theresa has been a go-to resource for ADA compliance questions for the entire Compliance and Enforcement Section. She has created numerous ADA certified documents for posting on the Central Valley Water Board website such as Notices of

Violation, Economic Benefit Analyses, Administrative Civil Liability Orders, Expedited Payment Letters, Cease and Desist Orders, and Settlement Agreements.

She also assists staff in the NPDES unit reviewing various monitoring and technical reports and preparing Notices of Violation. Theresa is enthusiastic and has a positive attitude even as plans and assignments change due to shifting priorities. She is punctual, dependable, and well-organized.

We are fortunate to have Theresa working for the Central Valley Water Board, and for these reasons and much more, she is well deserving of this award.

**EMPLOYEES: ERIC WARREN, JENNIFER FULLER, SUSAN FREGIEN, ASHLEY PETERS, YARED KEBEDE, KERI YEE, DAVID SHOLES**

**UNIT:** Irrigated Lands Regulatory Program General Order Update Team

**LOCATION:** Rancho Cordova Office

**TITLE:** Various

**SUPERVISOR:** Sue McConnell, Supervising WRC Engineer

This dedicated team of Irrigated Lands Program staff is being recognized for successfully bringing 8 general order updates to our Board for adoption under very challenging timelines. The CV-SALTS Basin Plan Amendments required the Irrigated Lands general orders be updated by July 2021 to include the Salt and Nitrate Control Program requirements. The timelines were complicated by the need to revise the Basin Plan Amendments in December 2020. This meant the team had to wait until those proposed revisions were relatively finalized before being able to release administrative drafts of the general order updates. In addition, the team had to develop a supplement to the Program EIR to support the general order updates.

The team juggled many moving parts to get the agenda materials ready for the April Board Meeting. Team members started meeting weekly in October 2020 and increased to meeting twice a week in March 2021. While all team members contributed significantly to the success of general order updates, two members went above and beyond in their efforts. Eric Warren helped draft the permit language, updated Salt and Nitrate Control Program's environmental checklist for this project and provided the effective presentation that resulted in at Board adoption of the updated permits.

Another key team member is Jennie Fuller, who just recently joined the Irrigated Lands Program. Jennie worked with our legal counsel to develop the Supplemental Program EIR and was instrumental in getting the CEQA agenda materials across the finish line.

Getting the agenda materials finalized required tremendous organization and hard work on the part of all team members. The team provided an administrative draft of the updated general orders to interested parties late last year and met with the parties to discuss preliminary comments. This pre-planning along with hard work and efficient collaboration allowed the team to quickly develop the formal responses to comments and update the 8 general orders for the April Board Meeting.



For their tremendous dedication and effort, the team members deserve to be recognized as employees of the month.

**EMPLOYEES: HOLLY GROVER, SAMMANTHA MELLO, TARAN SAHOTA, JAY SIMI, LISA WILSON**

**UNIT:** Nonpoint Source Planning and Assessment Unit

**LOCATION:** Rancho Cordova Office

**TITLE:** Various

**SUPERVISOR:** Jennifer LaBay, Sr. Environmental Scientist

Holly, Sammantha, Taran, Jay, and Lisa are being recognized for their outstanding work on the 2020/2022 Integrated Report. For the 2020/2022 Cycle, Region 5 was on-cycle and responsible for assessing all readily available data from August 2010 to June 2019, resulting in approximately nine years of data assessed. Data from a total of 1,043 waterbodies were assessed. As a result of the assessment, the Integrated Report Team wrote and coordinated with the Division of Water Quality on over 12,000 decisions. The Team also helped develop over 37,000 lines of evidence which were used to make decisions.

In addition to assessing data and making decisions, the Team spent months preparing for the assessment portion of the Integrated Report. This included mapping work, determining beneficial uses for all waters in our Region, reviewing appropriate water quality objectives and evaluation guidelines for assessing data, and verifying QAPPs for submitted data. During all of this, the Team participated in numerous Integrated Report coordination meetings, attended trainings, and dealt with shifting schedules. The Team was able to come together, plan for the cycle, and trouble-shoot many of the issues to create a path forward and did so with a positive attitude.

Holly, Sammantha, Taran, Jay, and Lisa's fine work and excellent planning resulted in a successful Integrated Report Cycle. For this and so much more, this team is deserving of the April Employee Recognition Award.

## **ENFORCEMENT**

Enforcement is a critical ingredient in creating deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves public confidence when government is ready, willing, and able to back up its requirements with action. This section of the EO Report is intended to inform the Board and the public on enforcement efforts since the last EO Report was issued. For this reporting period, the following sections provide: 1) a summary of enforcement orders issued; and, 2) a summary of all enforcement actions issued.

## ORDERS AND COMPLAINTS ISSUED OR ADOPTED

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

**Enforcement Table 1 – Central Valley Enforcement Orders  
1 March 2021 through 30 April 2021**

Action Date	Agency	County	Notes
3/11/2021	Dept of Corrections and Rehabilitation	Amador	Stipulation of Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2021-0001 in amount of \$2,500,00 to address illicit discharges of waste constituents to the stormwater system (MS4). The Discharger agreed to pay \$1,605,811 to the State Water Pollution Cleanup and Abatement Account and the remaining \$894,189 shall be permanently suspended upon completion of Enhanced compliance Actions (ECAs). The Goal of the ECAs is to replace the landscape irrigation system at Mule Creek State Prison (Facility). Also, the project will characterize the microbiological quality of stormwater discharges from the Facility and determine the effects of it on Mule Creek.
3/12/2021	Pacific Gas & Electric Company San Ramon	Shasta	13267 Order and Notice of Violation (NOV) issued to the Discharger for unauthorized discharge of waste to waters of the State. The discharge occurred due to erosional issues associated with the Discharger's newly constructed overhead utility access road at the site. The Order required the Discharger to submit erosion control measures that can be implemented during the wet weather periods. The Order also required the Discharger to assess the necessity of the access road and associated spur roads for future use.
3/26/2021	City of Colfax	Placer	Stipulation of Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2021-0507 in the amount of \$49,845 to address a Category I sanitary sewer overflow (SSO) which occurred on 29 July 2019. According to the City, 119,017

Action Date	Agency	County	Notes
			gallons were discharged to surface water and not recovered. The Discharger agreed to pay \$14,119 to the State Water Pollution Cleanup and Abatement Account and the remaining \$35,726 shall be permanently suspended upon completion of an Enhanced Compliance Action (ECA). The goal of the ECA is to evaluate and install improvements to lift Station 5 to increase its efficiency and extend the operational life of the existing force main.
3/26/2021	Sumiden Wire Company (Kevin Evans)	San Joaquin	Stipulation of Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2021-0510 in the amount of \$34,328 to address an alleged unauthorized non-stormwater discharge to the facility's storm drain inlet, which is connected to the City of Stockton's municipal separate storm sewer system and is tributary to the San Joaquin River, a water of the United States, which occurred on 2-3 April 2018.
4/6/2021	Colusa City	Colusa	Stipulation of Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2021-0500 in the amount of \$69,00 to address MMP effluent limitation violations. The Discharger is considered eligible for a Compliance Project (CP) because the facility serves a small community with financial hardship. The penalty will be permanently suspended pending completion of the CP. The goal of the CP is to reduce effluent total coliform and ensure future compliance with effluent limitations for total coliform. The CP includes improvements to the ultraviolet (UV) disinfection system, addition of a 5-micron filter set, and replacement of the UV influent butterfly valve.
4/16/2021	Harold Adams and Wilma Adams Property	Tehama	13267 Order and Notice of Violation (NOV) issued to the Discharger for unauthorized discharge of waste to waters of the State from cannabis cultivation and associated activities. The Order required the Discharger to submit a workplan for site restoration and proposed mitigation that addresses past discharges and the threat of future discharges to tributaries of Stinking Creek.

Action Date	Agency	County	Notes
4/16/2021	Marc Marquez and Sybouné Marquez Property	Tehama	13267 Order and Notice of Violation (NOV) issued to the Discharger for unauthorized discharge of waste to waters of the State from cannabis cultivation and associated activities. The Order required the Discharger to submit a workplan for site restoration and proposed mitigation that addresses past discharges and the threat of future discharges to tributaries of Stinking Creek.
4/16/2021	Shirley Kelly	Tehama	13267 Order and Notice of Violation (NOV) issued to the Discharger for unauthorized discharge of waste to waters of the State from cannabis cultivation and associated activities. The Order required the Discharger to submit a workplan for site restoration and proposed mitigation that addresses past discharges and the threat of future discharges to tributaries of Stinking Creek.
4/21/21	Stockton Terminal Eastern Railroad	San Joaquin	Stipulation for Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2020-0540 in the amount of \$3,000 to address failure to submit industrial stormwater annual report for two consecutive years.
4/23/2021	Nevada City	Nevada	Stipulation of Entry of Administrative Civil Liability Order (Stipulated Order or Order) R5-2021-0501 in amount of \$102,000 to address MMP effluent limitation violations. The Discharger is eligible for a Compliance Project (CP) because the facility serves a small community with financial hardship. The penalty will be permanently suspended pending completion of the CP. The City will install covers on the chlorine contact basin to mitigate effluent limitation violations by improving the efficiency of the disinfection process. Also, the Discharger will improve its filtration process which is adversely affecting the downstream disinfection performance during high flows.

**ENFORCEMENT UPDATE**

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 March 2021 through 30 April 2021. From a statewide perspective, Region 5 is responsible for 23% of the enforcement actions tracked in CIWQS during this period including 8% of all ACLs, and 40% of all NNCs.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS  
1 March 2021 through 30 April 2021**

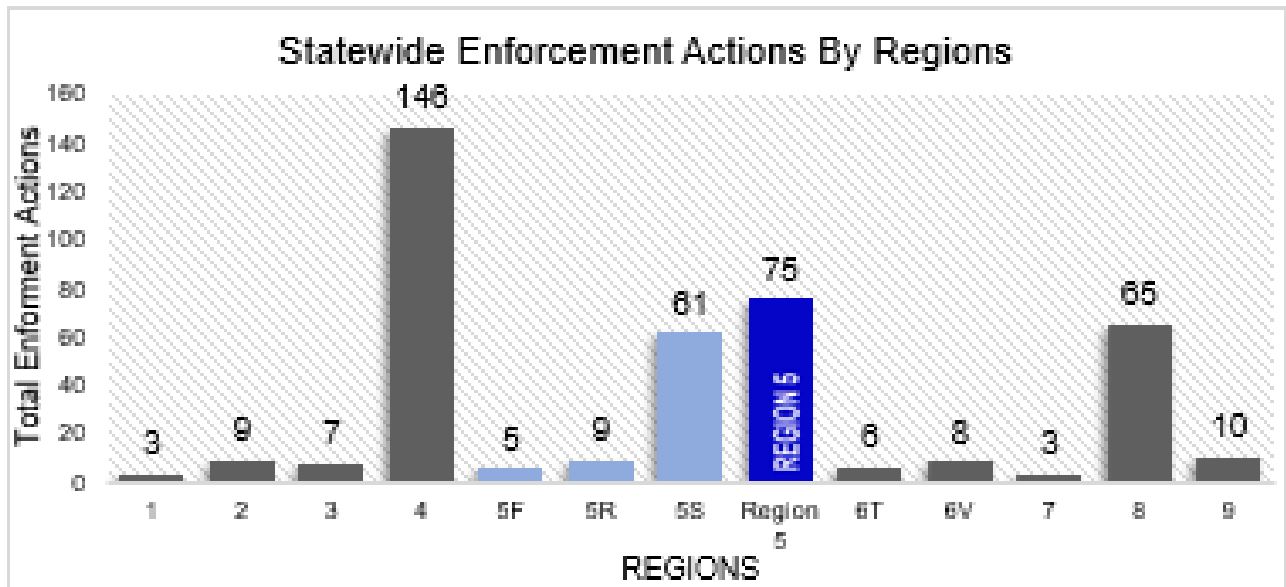
Region	NNC	ACL	CAO	EPL	NOV	SEL	TSO	VER	Total
1	0	0	0	1	0	0	1	1	3
2	0	0	8	0	0	1	0	0	9
3	0	0	2	0	1	3	1	0	7
4	0	5	5	0	10	122	0	4	146
5F	0	0	0	0	0	2	1	2	5
5R	4	0	0	0	0	4	0	1	9
5S	0	1	6	0	0	45	5	4	61
Region 5	4	1	6	0	0	51	6	7	75
6T	0	0	0	0	0	4	2	0	6
6V	0	0	0	0	0	0	2	6	8
7	0	0	2	0	1	0	0	0	3
8	0	6	1	0	4	1	17	36	65
9	2	0	1	0	0	4	3	0	10
<b>Total</b>	10	13	31	1	16	237	38	61	332

**ENFORCEMENT ACTIONS:**

**ENFORCEMENT ACTIONS AND ABBREVIATIONS:**

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

## STATEWIDE ENFORCEMENT ACTIONS BY REGION



**Enforcement Figure 1: Enforcement Actions: Statewide Enforcement Actions recorded in CIWQS**

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

**Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker  
1 March 2021 through 30 April 2021.**

Region	13267 Requirement	Letter - Notice	NOV	Staff Letter	VER	Warning Letter	Total
<b>5F</b>	3	0	1	43	1	0	<b>48</b>
<b>5R</b>	2	1	1	24	0	1	<b>29</b>
<b>5S</b>	0	0	2	80	4	0	<b>86</b>
<b>Total</b>	<b>5</b>	<b>1</b>	<b>4</b>	<b>147</b>	<b>5</b>	<b>1</b>	<b>163</b>

Finally, the Board's Irrigated Lands Regulatory Program (ILRP) does not upload enforcement actions into either the CIWQS or GeoTracker databases. For the period between 1 March 2021 through 30 April 2021, a summary of those enforcement actions is included in Table 4, below.

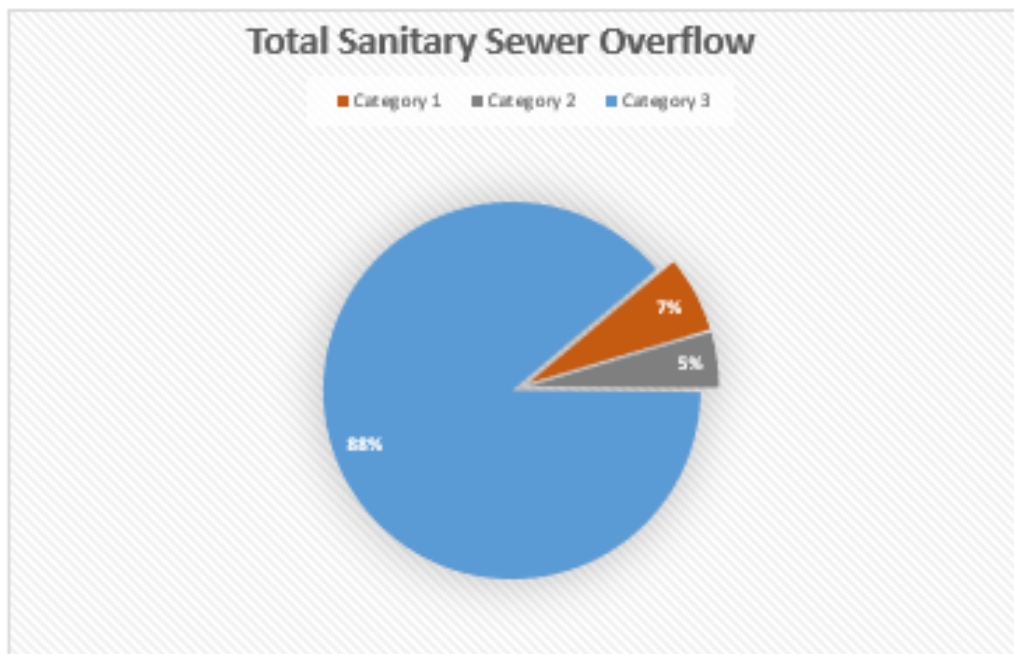
**Enforcement Table 4 – Region 5 ILRP Enforcement Actions  
1 March 2021 through 30 April 2021**

Region	Reminder Letter for Failure to Submit the Notification Template for exceedance of drinking water well	Reminder Letter for Enrollment in ILRP	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	Total
<b>5F</b>	74	0	0	74
<b>5R</b>	0	0	0	0
<b>5S</b>	27	129	193	349
<b>Total</b>	<b>101</b>	<b>129</b>	<b>193</b>	<b>423</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 an 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 March 2021 through 30 April 2021, there was no reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

### **SSO SUMMARY DATA**



**Enforcement Figure 2: Central Valley Sanitary Sewer Overflow Summary  
1 March 2021 through 30 April 2021.**

For the reporting period between 1 March 2021 through 30 April 2021, there were 169 total SSO spills: 11 Category 1, 8 Category 2, and 150 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**

Central Valley Water Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 March 2021 through 30 April 2021, Central Valley Water Board staff received a total of **36 complaints** via phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/) (<https://calepacomplaints.secure.force.com/complaints/>). To date, 34 (94%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining two (2) complaints remain ongoing.

## **ADMINISTRATIVE CIVIL LIABILITY**

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

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

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

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

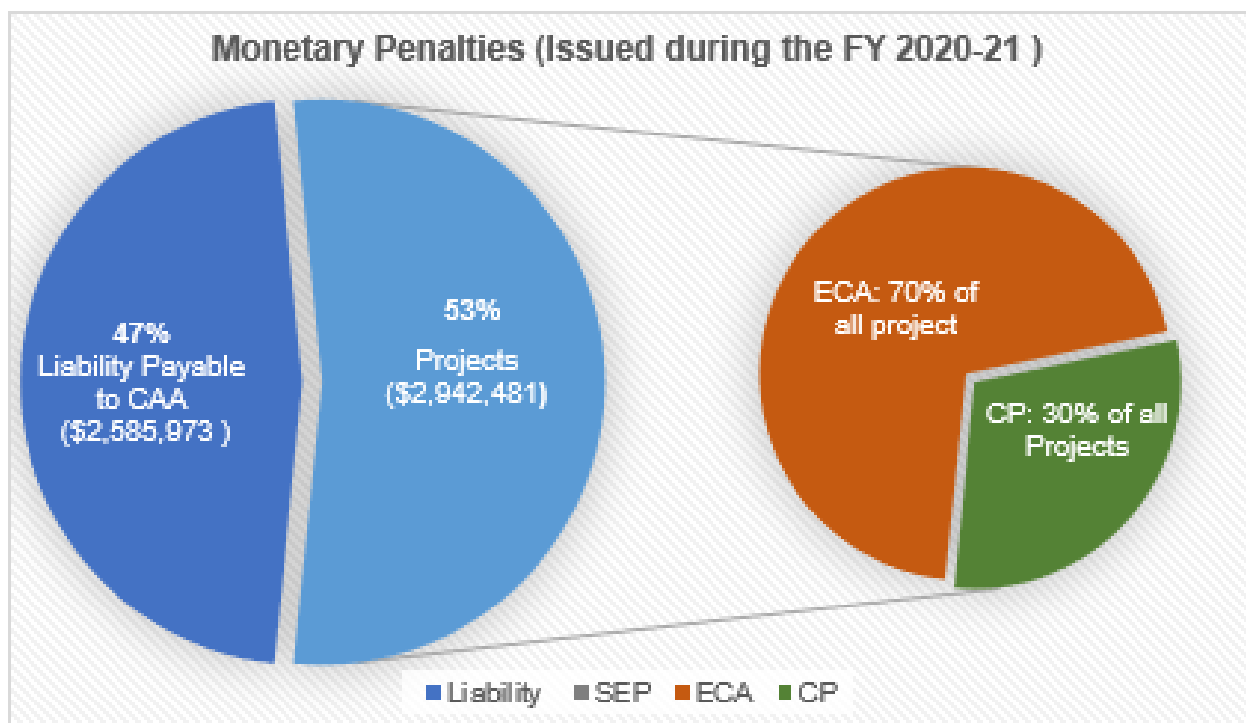
A settling party may offset a portion of the monetary liability of an ACL penalty by voluntarily choosing to fund SEP that enhance the beneficial uses of the waters of the State, provide a benefit to the public at large, and that, at the time they are included in an ACL action, are not otherwise required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



## ENHANCED COMPLIANCE ACTION (ECA)

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

For the fiscal year period between 1 July 2020 through 30 April 2021, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$5,528,454 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$2,585,973 (47%) of the penalties were paid to the State Water Pollution Cleanup and Abatement Account and 2,942,481 (53%) of the penalties were allocated to projects (CP, SEP, or ECA). The funds that were allocated to these projects \$879,000 (30% of all funds allocated to projects) was allocated for CPs and \$2,063,481 (70% of all funds allocated to projects) was allocated for ECAs (see Figure 3 below).



**Enforcement Figure 3: Region 5 – Total Monetary Penalties issued during the fiscal year.**

## PERFORMANCE TARGETS

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

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

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

([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 2019-2021 fiscal year. This report was produced for the 2020-2021 fiscal year.

**ENFORCEMENT TABLES 5A-5E – REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY (1 JULY 2020 THROUGH 30 APRIL 2021)**

**Table 5a – NPDES Wastewater**

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Facilities Inspected	29	14	58%	NA	17
Minor Facilities Inspected	9	5	78%	NA	7

**Table 5b – NPDES Storm Water**

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	327	98%	NA	376
Stormwater Industrial Inspections	195	216	114%	NA	223

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Municipal Inspections	0	42	NA	NA	53

**Table 5c – Waste Discharge to Land (Wastewater)**

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	107	82%	NA	127

**Table 5d – Land Disposal**

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	58	60%	NA	68
All Other Inspections	23	20	130%	NA	30

**Table 5e – Other Programs**

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	166	211	142%	NA	235
Confined Animal Facility Inspections	275	199	77%	NA	212

**ENFORCEMENT TABLE 6 – REGION 5 CLEANUP ACTION SUMMARY  
(1 JULY 2020 THROUGH 30 APRIL 2021)**

**Table 6 – Clean Up**

<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>
New DoD Sites into Active Remediation	5	5	100%	NA	NA
New SCP Sites into Active Remediation	40	17	43%	NA	NA
Cleanup Program Sites Closed	41	43	102%	NA	NA
New UST Sites into Active Remediation	25	6	24%	NA	NA
Underground Storage Tank Sites Closed	68	54	79%	NA	NA

**DELTA ACTIVITIES**

**DELTA MERCURY CONTROL PROGRAM**

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

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

Board staff met with dischargers to discuss the control study reports and to obtain clarification information and anticipate issuing letters of compliance with the DMCP for all studies. A one-day virtual meeting for methylmercury control study participants summarizing control study findings to-date and related impacts to the DMCP was held on 10 September 2020.

On 24 February 2021, Board staff conducted a virtual public workshop and CEQA scoping meeting. Representatives from various stakeholder groups, including

wastewater, stormwater, irrigated agriculture, as well as state and federal agencies attended and provided verbal comments. Tribal representatives were also present. Four entities submitted written comments that will be considered throughout the development of the DMCP Review and included within the administrative record.

A second Review Panel is reviewing the remaining open water modeling and tidal wetlands reports and will submit a report on those studies. Board staff will use information from these studies and recommendations from both Panels to consider revisions to the DMCP.

Board staff continue to review and incorporate recent data and literature to determine if modifications to the DMCP are necessary. On 21 April 2021, Board Staff met with USEPA to discuss their CEQA Scoping comments and provide an update on potential modifications to the DMCP. Quarterly meetings with USEPA will continue with the next meeting scheduled for late July 2021. More information on the DMCP, including the CEQA scoping presentation slides and recording, can be found on the [DMCP website](#) here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/tmdl/central\\_valley\\_projects/delta\\_hg/](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/))

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

Board staff attended Delta RMP meetings, including Technical Advisory Committee (TAC) and Steering Committee (SC) meetings as well as other smaller meetings to provide support for program implementation. The current Implementing Entity, the Aquatic Science Center, has informed the Central Valley Water Board that it does not plan to continue managing the Delta RMP after June 2021. Modifications to the governance structure, program structure, and implementing entity will require approval by the Central Valley Water Board.

On 12 January 2021, the Executive Officer provided a letter to the SC clarifying expectations for the timing of governance decisions and implementation of the new RMP program by January 2022 and requested the Delta RMP to submit a program Governance Report by 1 April 2021. On 5 May 2021 the Executive Officer, Assistant Executive Officer, and Program manager met with the new President and Vice-President of the new Implementing Agency to discuss the report. On 11 May 2021 the Executive Officer requested a revised Governance Report with additional details discussed during the 5 May 2021 meeting. The revised report is due to the Executive Officer by 20 July 2021. Board staff anticipate updating Board Resolution No. R5-2013-0130 due to the revised governance and program structure and the establishment of the new nonprofit Implementing Agency.

On 19 April 2021, the TAC reviewed several RMP reports on current use pesticides, toxicity, and chlorophyll intercalibration. On 19 May 2021, the TAC reviewed a three-year interpretive report on methylmercury in fish and water and the pesticide data report for water year 2020. Draft outline for FY21/22 monitoring was presented.

At both the April and May TAC meetings, current monitoring project updates were provided by Delta RMP project leads for nutrients, pesticides and toxicity, mercury, and contaminants of emerging concern. USGS and DWR began cyanotoxin sampling in March 2021. USGS staff presented preliminary monitoring data results for the cyanotoxin monitoring and the pesticides and toxicity monitoring. Board staff presented preliminary data for the Microcystis tracking project including a comparison of toxigenic Microcystis observed across monitoring sites to date.

## **DELTA NUTRIENT RESEARCH PLAN**

The Delta Nutrient Research Plan (approved by the Central Valley Water Board in August 2018) identifies information gaps for determining need and potential scope of water quality objectives for nutrients in the Delta. Implementation is ongoing and includes special studies, monitoring, and modeling to fill the information gaps.

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

- Board staff are part of a project team that is monitoring cyanotoxins in water and sediment organisms in the Delta. The 2-year project, which is funded by a Proposition 1 Grant, began sampling in August 2020. Board staff are participating in project tracking, reporting, and data management.
- Board staff continue to develop mass load estimates of nitrogen and phosphorous in the Delta. This work will update and extend previously published load estimates and will cover the period 2010-2019.
- In May, Board staff completed the second sampling for a project investigating overwintering of Microcystis cells in major bloom locations in the Delta and influence of these cells to subsequent summer blooms. The project is testing the hypothesis that benthic resting cells at a few locations generate blooms at these locations and elsewhere in the Delta. The project is funded through the Delta RMP and the State Water Board Freshwater HAB Program. Sampling and analyses of water for Microcystis abundance and strain types will occur in summer 2021.

## **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 24 March through 19 May 2021, there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary.

[Real-time dissolved oxygen data for the DWSC](#) can be found at:

(<https://cdec.water.ca.gov/dynamicapp/QueryF?s=SDO>)

More information on the SDWSC/SJR Dissolved Oxygen [TMDL Control Program](#) can be viewed here:

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

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

On 15 June 2020, the Department of Water Resources (DWR) submitted a draft report detailing the temporary barriers' effects on dissolved oxygen in Old and Middle Rivers to meet a requirement of the 401 Certification. Board staff reviewed the draft DWR report, provided feedback to DWR, and met with DWR to discuss the report on 11 February 2021. DWR is currently revising the report based on feedback from Board staff.

## **TMDL BASIN PLANNING**

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

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

On 8 June 2017, the Board adopted a Basin Plan Amendment (BPA) which established a Control Program for Pyrethroid Pesticide Discharges throughout the Sacramento and San Joaquin River Basins, as well as Total Maximum Daily Loads (TMDLs) for pyrethroid pesticides in certain impaired water bodies. The State Water Board approved the BPA on 10 July 2018. The Office of Administrative Law (OAL) approved the BPA on 19 February 2019. On 22 April 2019, USEPA approved the BPA. The BPA, including the TMDLs, are now fully approved and effective.

On 15 July 2020, Board staff sent orders under California Water Code Sections 13267 and 13383 (Orders) to Municipal Separate Storm Sewer System (MS4) permittees in the Sacramento and San Joaquin Rivers Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these Orders, Phase I MS4 permittees were required to submit draft Baseline Monitoring Plans by 1 December 2020. All the Phase I MS4 permittees have complied with the Orders and submitted draft Baseline Monitoring Plans, and those plans are being reviewed by Board staff and revised by the permittees.

Phase II MS4 permittees under the program had the option to either 1) submit Baseline Monitoring Plans by 28 February 2020, or 2) acknowledge the existing data are assumed to be representative of their discharge, forego baseline monitoring, and prepare a Pyrethroid Management Plan due to the Board by 19 August 2021. The Phase II MS4 permittees were also required to submit a statement of intent by 31 August 2020 describing which option they selected to comply with the Order. All of

the Phase II MS4 permittees have responded to the Orders with a statement of intent, most intend to submit Pyrethroid Management Plans.

Fifteen (15) Phase II MS4 permittees initially selected the baseline monitoring option. Under the Orders, these permittees were required to submit a draft Baseline Monitoring Plan by 28 February 2021 and are required to complete one (1) year of baseline monitoring by 21 June 2022. Ten (10) of these Phase II MS4 permittees submitted draft Baseline Monitoring Plans by 28 February 2021 and those plans are being reviewed by Board staff and revised by the permittees.

Five (5) of the Phase II MS4 permittees that selected the baseline monitoring option requested extensions and were granted forty-five (45)-day extensions, until 14 April 2021. Two (2) of these permittees submitted draft Baseline Monitoring Plans by 14 April 2021. Those permittees' plans are being reviewed by Board staff. The remaining three (3) permittees who had received extensions submitted revised statements of intent in which they committed to preparing and submitting Pyrethroid Management Plans by 19 August 2021 instead of conducting baseline monitoring.

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

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

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

## **TRIBAL BENEFICIAL USES DESIGNATION**

On 2 May 2017 beneficial use definitions 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”, or TBUs). In addition, the State Water Board also defined a beneficial use for Subsistence Fishing (SUB) unrelated to California Native American Tribes (though it can be used by Tribal members, as applicable). The SUB and T-SUB beneficial uses relate to the risks to human health from the consumption of fish or shellfish. The definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights. On 6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 approving the 2018 Triennial Review with TBUs as a priority project.

Board staff has continued participation in the internal TBUs Working Group, which has



representatives from the nine Regional Water Boards and several divisions within the State Water Board (including the Office of Chief Council, Office of Public Participation, Division of Water Quality).

Board staff have begun drafting a Basin Plan Amendment to add the TBU definitions to the Basin Plans in 2021.

With respect to waterbody designations, Board staff have developed a process making highest and best use of State resources, Tribal resources, and the administration's priority on Tribal issues and environmental justice. This process was developed through collaboration with Tribes, including 1:1 meetings with Tribes commenting on the 2018 Triennial Review (Nov-Dec 2020), and two Tribal Summits (March 2021).

The public has also been involved in the process, via a public outreach meeting held on 28 April 2021. Participants at this meeting included Board Members, Board staff and Executive Management, dischargers, non-profit advocates, Tribal members and staff, and the general public. These conversations shaped the process proposal and are included in what will be presented at the June Board meeting.

More information can be found on the [Tribal Beneficial Uses](#) website at:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/basin\\_plans/tribal\\_beneficial\\_uses](https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/tribal_beneficial_uses))

## **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 the project, Board staff met with the Modoc Resource Conservation District (MRCD) and Pit River Tribe beginning in the Fall of 2019 through early 2020. Through these meetings, stakeholders and Board staff determined the priorities for the program were to gather the available temperature-related water quality data, to identify if data gaps exist and to determine if additional data is needed through a field effort. The MRCD and Pit River Tribe members agreed to continue discussions on this topic by holding future meetings. Board staff continue to facilitate meetings and discussions, as needed, or requested.

## **2021 TRIENNIAL REVIEW**

Regional Water Boards are required to periodically review the Basin Plans to identify portions of the plans that should be evaluated for potential revision. The periodic reviews (called the Triennial Review) conducted by each Regional Water Board establishes the priorities for Basin Planning activities within the Region. Prioritization is necessary, as there have historically been more issues identified than resources to available to address them. The Triennial Review is used to prioritize basin planning efforts.

The Triennial Review process begins with a solicitation which is an opportunity for interested persons to provide written comments to the Board. On 24 March 2021, Board staff issued the 2021 Triennial Review Solicitation Notice and comments were due to be received by 10 May 2021. Board staff received 12 comment letters during the solicitation period. The next step is to develop a draft workplan which will be released for public comment prior to be presented to the Board for adoption. Board staff intend to bring the revised 2021 Triennial Review Workplan to the Board for adoption in December 2021.

## **BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT**

The State Water Board is developing a statewide plan for control of bio stimulatory 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 bio stimulatory substances and control options for point and non-point sources.

The Amendment development is focused first on wadable streams, followed by lakes and reservoirs and then estuaries. Following adoption of the Toxicity Policy, State Water Board staff resumed work on a draft bio stimulatory substances amendment for wadable streams to be released in 2021. Board staff are working with the Southern California Coastal Water Research Project to evaluate available data and information gaps for Central Valley wadable streams and lakes and reservoirs.

## **REGIONAL TEMPERATURE CRITERIA DEVELOPMENT**

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

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

## **SALINITY AND CV SALTS**

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

The CV-SALTS Central Valley-wide Salt and Nitrate Management Plan (SNMP) was completed and submitted to the Board on 12 January 2017. A resolution acknowledging

receipt of the SNMP and directing Board staff to begin basin plan amendment work to implement the SNMP as appropriate was adopted at a 9 March 2017 hearing. Final copies of the [SNMP](#) and related policy documents can be found here:

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/salt\\_nitrate\\_mgtplan/](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), which was on 15 January 2020. The SNCP was finalized when the Notice of Decision was filed with the Secretary of Natural Resources Agency on 17 January 2020, except for the portions subject to the Clean Water Act, which were approved by the USEPA on 2 November 2020. Basin Plan amendments adopted by the Central Valley Water Board on 10 December 2020 in [Resolution R5-2020-0057](#). The resolution can be found here:

([https://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/resolutions/r5-2020-0057\\_res.pdf](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/resolutions/r5-2020-0057_res.pdf))

The State Water Board is scheduled to consider approval of the revisions at their 1 June 2021 meeting. Central Valley Water Board staff will also be providing the State Water Board an update on CV-SALTS implementation activities at that same meeting.

The Notice to Comply letters for the Nitrate Control Program were sent out to Priority 1 permittees on 29 May 2020. Since that time, six Management Zones have formed to cover the six high priority sub-basins. The Management Zones submitted Preliminary Management Zone Proposals (PMZPs) and Early Action Plans (EAPs) on 8 March 2021 to comply with the Nitrate Control Program. As required by the Nitrate Control Program, EAP implementation to provide safe drinking water to impacted communities is scheduled to begin on 7 May 2021. The Central Valley Water Board received written comments on the Management Zone PMZPs and EAPs on 14 April 2021 and received oral comments from participants at a Board Virtual Public Workshop held on 27 April 2021. The Chowchilla, Modesto, Kaweah, Kings and Turlock Management Zones received conditional approvals of their EAPs by the Executive Officer of the Central Valley Water Board on 7 May 2021. The Tule Management Zone received a disapproval of their EAP with a 60-day opportunity to cure.

Notice of Intent documents from permittees not listed in the PMZPs as Management Zone participants were also due 7 May 2021. Staff are currently reviewing Path A (Individual Permitting) submittals from twenty permittees.

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

More information about the [SNCP](#):

can be found at: (<https://cvsalts.info>)

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

On 11 August 2017, the Board adopted the proposed Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies. A State Board hearing to consider approval of the Basin Plan Amendment was held on 10 July 2018. State Board members deferred their decision on the amendments to a future date.

Board staff continue to work with State Board staff to address questions and concerns that were raised during the 10 July 2018 hearing and initial revisions to the amendments were drafted by staff this past quarter.

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

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

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

MAA meetings with Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. The next MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) will be held on 21 June 2021. USBR's FY20/21 Work Plan was accepted by the Central Valley Water Board's Executive Officer in September 2020. USBR's 2020 Annual Report was submitted to the Central Valley Water Board in December 2020.

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

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

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

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

The Lower American River has been listed as impaired due to indicator bacteria on California's 303(d) List. To keep the public and local agency partners informed about current conditions, SWAMP has been collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. This effort is in conjunction with a coordinated stakeholder study to collect DNA source identification samples and characterize the contributing sources of E. coli to the river. Sampling for Phase 1 of the study was completed in September 2020 and included ten sites on the American River and two urban runoff locations. An initial review of the data indicates that birds are the most consistent source of contamination in this reach. The DNA marker for birds was detected in 80% of the samples, while the marker for dogs was detected in 27% of samples and for humans in 9% of samples. Monitoring for Phase 2 of the study is scheduled to begin in July 2021 and will focus on the river reach from Sutter's Landing Regional Park downstream to the confluence with the Sacramento River.

## **SUMMER 2021 RECREATIONAL BENEFICIAL USE ASSESSMENTS**

Each summer since 2007, the Central Valley Water Board has conducted Recreational Beneficial Use Assessments in popular recreational areas. Recreational beneficial uses are assessed using E. coli as an indicator of fecal pollution. Board staff are planning their monitoring studies for the 2021 season, which include popular recreational spots in the upper San Joaquin River and the lower Kings River watersheds. An additional microbial source tracking study will be initiated in the Lone Tree Creek watershed, which has historically high levels of E. coli.

[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/)).

## **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](#) at:

(<https://mywaterquality.ca.gov/index.html>).

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

Updates and conclusive findings on the results listed in Table 1. below can be found on the [California Harmful Algal Blooms Portal](#) at:

(<https://mywaterquality.ca.gov/habs/>).

### **SPRING 2021 – CENTRAL VALLEY BLOOMS**

Cyanobacteria blooms typically occur from summer through late fall when temperatures are at their highest. However, blooms can occur in the winter and spring, especially if temperatures are mild and nutrients are introduced from rainfall runoff. A summary of cyanobacteria blooms for the period from 15 January 2021 to 19 March 2021 is provided in Table 1.

A summary of cyanobacteria blooms for the period from 20 March 2021 to 19 May 2021 is provided in Table 1.

**Cyanobacteria Table 1. Bloom Summary: 20 March 2021 through 19 May 2021**

<b>Category</b>	<b>Count</b>
Number of Suspected Blooms Investigated since previous EO Report	6
Number of Confirmed Blooms* since previous EO Report	1
Number of Continuing Blooms* from previous EO Report	0
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report	1
Number of Human Illnesses Reported since previous EO Report (under investigation)	2 <sup>‡</sup>
Number of Animal Impacts Reported since previous EO Report (under investigation)	4 <sup>§</sup>

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

‡A human illness was reported at Maxwell Creek in Calaveras County where lab results do not point to cyanobacteria as the cause. A human illness was also reported at Clear Lake (Konocti Harbor) and an investigation is ongoing by OEHHA.

§Animal impacts were reported. Dog illnesses at Maxwell Creek (Calaveras County) and the South Fork Arm at Folsom Lake do not appear to be related to cyanobacteria as the cause. A trout fish kill was reported in the Pit River Arm of Lake Shasta, but investigators did not find evidence of cyanobacteria. A bass fish kill was reported on Oakwood Lake in Manteca which is still being investigated.

## **FOREST ACTIVITIES PROGRAM**

### **PROJECTS**

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

The Dixie Road project is for the purpose of implementing forest management, erosion control, and storm proofing practices on Dixie Road and Camp Creek Road to protect the spawning beds and fisheries habitat of endangered and threatened species associated with the North Fork Feather River, Camp Creek, and their tributaries in Butte County within the perimeter of the 2018 Camp Fire. Since the last update, The Draft 1600 permit has been submitted to California Department of Fish and Wildlife. Cultural Resources Surveys have been completed along with the Botany surveys. The CEQA NOE has been filed and continued communications with Plumas National Forest NEPA team about project and needs for CEQA should provide all other permits and specialist surveys upon completion. Grant funding recently increased by \$275,198 bringing the total allotted funds for this project to \$775,198. Additional funds were approved by the State Water Board as it was consistent with the purposes of Water Code section 13442 and the cleanup of waste or abatement of the effects of a waste. Currently, it is anticipated that construction is to begin work summer of 2021 once bids have been finalized. (Closing 12/31/2021)

## **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 through 3, below, summarize the Notices of Applicability that have been issued to date for Fiscal Year 2020/2021 (1 July 2020 through 30 April 2021) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order), Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order), and Waste Discharge Requirements for Cold

Water Concentrated Aquatic Animal Production Facility Discharges to Surface Water (CAAP General Order).

**NPDES PERMIT Table 1 –Limited Threat Discharges to Surface Waters**

<b>Facility</b>	<b>General Order Permit Number</b>
McLaughlin Mine Treatment System Amendment	R5-2016-0076-031
US Army Corps of Engineers and Flatiron/Dragados/Sukut Joint Venture; Lake Isabella Dam Safety Modification Project Amendment	R5-2016-0076-053
Union Pacific Railroad Company, Dunsmuir Railyard Project	R5-2016-0076-063
North Manteca Trunk Sewer Construction Dewatering Project	R5-2016-0076-064
Lone Tree Rd Improvements Phase II Construction Dewatering Project	R5-2016-0076-066
Yuba Water Agency, New Bullards Bar Dam Project	R5-2016-0076-067
Glenn Springs Holdings, Inc. and Miller Springs Remediation Management Inc., Former J.R. Simplot Facility Amendment	R5-2016-0076-010
American Valley WWTP Construction Dewatering	R5-2016-0076-070
Beale AFB Plume CG044-013 Groundwater Treatment System	R5-2016-0076-068
Westlake Community Construction Dewatering Project Amendment	R5-2016-0076-057-01

**NPDES PERMIT Table 2 - Municipal General Order**

<b>Facility</b>	<b>County</b>	<b>General Order Permit Number</b>
Stallion Springs Community Services District, Wastewater Treatment Facility	Kern	R5-2017-0085-013
United Auburn Indian Community, Thunder Valley Casino WWTP	Placer	R5-2017-0085-014
Mariposa PUD WWTP	Mariposa	R5-2017-0085-017
Nevada CSD No 1 Cascade Shores WWTP	Nevada	R5-2017-0085-015



### NPDES PERMIT Table 3 - CAAP General Order

Facility	County	General Order Permit Number
Calaveras Trout Farm, Inc. and Merced Irrigation District, Trout Rearing Facility	Merced	R5-2019-0079-001

## DAIRIES/CONFINED ANIMAL FACILITIES

### CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program's FY 2020/2021 performance target for facility inspections is 275. Staff have completed 258 inspections to date and anticipates meeting the performance target.

## OIL FIELDS

### WASTEWATER SURFACE PONDS

Staff continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land and evaluating closure plans for produced wastewater ponds. Major items that have been completed by Staff include the following:

- Individual review memorandums were issued to Chevron USA, Inc., and Aera Energy LLC stating that the HH&F and Fulton Leases, respectively, have been adequately closed and no further action is needed.
- A Notice of Violation (NOV) was issued to Little Creek Properties and Daybreak Oil and Gas, Inc.
- An NOV and associated inspection report for was issued for the Ballard Oil ponds on the Newsome-Windes Lease in the Midway Sunset Oil Field.
- A Notice of Applicability was issued for coverage under Oil Field General Order Three, Order No. R5-2017-0036-019, to 25 Hill Properties, Inc., for the James Trust, Virginia Lands, and B-Zone (Shell) leases in the Midway-Sunset Oil Field.
- A conditional approval was conveyed related to a work plan for Vast Star Corporation in the Cymric Oil Field to begin the closure of produced water ponds.
- A review memorandum was conveyed to by Aera Energy, LLC, for a hydrostatic testing work plan for a pond on the Lost Hills Two Lease in the Lost Hills Oil Field.

- Revised Monitoring and Reporting Program Order No. R5-2017-0036-007 was issued to Longbow, LLC, and Revised Monitoring and Reporting Program Order Nos. R5 2017-0036-016 and R5-2017-0036-017 was issued to Aera Energy, LLC.
- A Water Code 13267 directive was issued to Oil City, LLC requiring it to submit technical reports to assess an unauthorized pond closure and to evaluate facility containment units to determine whether they need to be covered under waste discharge requirements.

During March and April 2021, Staff completed thirteen inspections of oil field facilities. Due to the COVID-19 pandemic and directives from CalHR, Staff is generally only conducting emergency inspections for spills or equipment failures. Routine inspections are not being regularly completed at this time.

Staff is also continuing to review monitoring reports for drilling mud sumps regulated under the Statewide General Waste Discharge Requirements for Discharges to Land with a Low Threat to Water Quality (General WDRs).

## **SPILL RESPONSE**

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

A spill of crude oil and produced wastewater occurred on the 21Z Lease operated by Berry Petroleum Company (BRY), in the McKittrick Oil Field on 15 March. According to OES, a mechanical failure at a production well caused the discharge of approximately 0.5 bbls (21 gals) of crude oil and 0.5 bbls (21 gals) of produced wastewater to land. On 15 March, BRY staff told Staff that the spill affected a flat area on a production pad and no dry stream beds have been affected. BRY staff added that the discharge has been stopped and cleanup of the affected areas was complete. According to BRY, staff of the California Geologic Energy Management (CalGEM) followed-up on this incident.

A spill of Crude oil occurred on the 10 Section Oil Lease operated by Kern Oil and Refining Corporation (KROC) in Kern County on 18 March. According to OES, an unknown underground source discharged approximately 10 bbls (420 gals) of crude oil to land. On 18 March, KROC staff told Staff that the spill affected flat areas and a natural depression and no dry stream beds had been affected. KROC staff added that cleanup of the affected areas was in progress and the discharged amount will probably exceed 100 bbls (4,200 gals). A 19 March update to the OES report for this incident stated that the discharged oil was recalculated to be approximately 1,333 bbls (55,986 gals). Staff inspected the spill site on 22 March to observe the affected areas and ascertain cleanup status. Staff observed an excavated pit that contained several pipes and considerable amounts of oil-stained soil. KROC said that investigations were ongoing to pinpoint the leak on the underground flow line that caused the discharge. Staff also observed the areas affected by the spill and ongoing cleanup activities. KROC staff said that cleanup activities will continue to remove all oil-affected materials and

dispose of them appropriately. Staff observed areas where excavation appeared to have occurred and roll-off bins where the removed waste was staged. On 26 April, KROC staff told Staff that cleanup of the areas affected by the spill was mostly complete and a section of the source pipe was removed. KROC staff elaborated that all affected flat areas were cleaned, and cleanup work is continuing at the location of the discharge. KROC staff added that KROC has developed a workplan for cleanup and restoration of the site and is working with the landowner to achieve this purpose. Staff will conduct a post-cleanup inspection of the spill site once cleanup is complete.

A spill of crude oil and produced wastewater occurred on the Station 31 facility operated by Chevron USA, Inc. (Chevron), in the Midway-Sunset Oil Field on 20 March. According to OES, a pump failure on a pipeline caused the discharge of approximately 27.9 bbls (1,171.8 gals) of crude oil and 0.6 bbls (25.2 gals) of produced wastewater to land. OES reported that the discharged fluids were contained in a secondary containment and no water ways or wildlife were affected.

What appears to be a relatively new, but ongoing surface expression is discharging hydrocarbon-containing wastewater into an ephemeral stream bed on a property used for cattle grazing owned by Coalinga Cattle and Feed, in the Coalinga Oil Field. The incident was first reported on 22 March by Aera Energy, LLC which operates oil production facilities nearby. According to OES reports, the discharge is emerging from an orphan well and affecting an ephemeral stream bed. The total quantity of the discharge and the rate of discharge are unknown. Staff inspected the spill site on 26 March to investigate the incident. Staff of CalGEM told Staff that there is an orphan well near the vicinity of the discharge location, but it is not known if the discharge point is at the location of the reported well. The well is over 100 years old and is due for abandonment. Staff inspected the spill site again on 13 April and observed that the discharge was still ongoing at that time. Staff collected a sample of the discharge that showed levels of hydrocarbons. CalGEM is working on investigating the cause and source of the discharge as well as locating the reported orphan well.

A spill of oil and oil field produced wastewater occurred on the Section 13 Lease operated by Aera Energy, LLC (Aera), in the Lost Hills Oil Field on 26 March. According to OES, a surface expression discharged approximately 2 bbls (840 gals) of crude oil and 2 bbls (840 gals) of produced wastewater to land. On 29 March, Aera staff told Staff that the discharge consisted of mostly steam with minimal amounts of fluids. Aera staff added that all the discharged fluids were contained and that the discharge stopped when Aera ceased all steaming activities in the vicinity of the discharge. Staff of CalGEM is following up on this incident.

A spill of oil and oil field produced wastewater occurred on the Section 20 Lease operated by Aera, in the South Belridge Oil Field on 31 March. According to OES, a failed pipeline discharged approximately 9.46 bbls (397 gals) of crude oil and 189.35 bbls (7,961 gals) of produced wastewater to land. On 1 April, Aera staff told Staff that no dry stream beds or natural drainage courses were affected by the discharge. Aera staff added that cleanup of the affected areas has been completed. Aera staff provided Staff with photographs showing the post-cleanup conditions of the spill site.

## **OIL FIELD FOOD SAFETY EXPERT PANEL**

During March and April 2021, Staff made edits and revisions to the Food Safety Project White Paper (White Paper). The White Paper summarizes the Food Safety Project which was undertaken to identify potential threats to human health as a result of consuming crops irrigated with oil field produced water. The White Paper was presented to the Board during its February 2021 Meeting, after a public release in January 2021. The public comment period on the White Paper was from 21 January 2021 to 6 March 2021. During the comment period Staff received nine comment letters from members of the public, including environmental advocacy organizations and citizens. In addition to making edits to the White Paper, Staff added an appendix to summarize the comment letters, Staff responses, and changes made to the White Paper as a result of the comments received.

## **UNDERGROUND INSPECTION CONTROL (UIC) PROGRAM**

During the period from 17 March 2021 to 14 May 2021, staff of the UIC performed the following activities:

### **AQUIFER EXEMPTIONS**

Midway-Sunset Tulare Aquifer Exemption – The California Geologic Energy Management Division (CalGEM) provided State Water Board staff and Staff a revised aquifer exemption application (application). State Water Board staff and Staff met with CalGEM to discuss the changes to the application. Staff is reviewing the application provided.

Kern River Aquifer Exemption – Staff and State Water Board staff met with CalGEM to discuss the changes made in the revised application. Staff and State Water Board staff provided CalGEM with additional questions and concerns. Staff is reviewing additional information provided in response to the additional questions and concerns.

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

Deer Creek Aquifer Exemption – CalGEM provided State Water Board staff and Staff a revised application. Staff and State Water Board staff reviewed the revised application and determined that the questions and concerns raised were not addressed. State Water Board staff provided CalGEM with a summary of questions and concerns that still need to be addressed.

Mt. Poso Dorsey Area Aquifer Exemption – CalGEM provided State Water Board staff and Staff a revised application and responses to initial questions. Staff is reviewing the revised application and additional information provided.

## **UIC PROJECT REVIEWS**

Staff received information in response to five 13267 Orders requiring Operators to perform hydrogeologic investigations in the South Belridge and Lost Hills Oil Fields. Staff is reviewing the information provided and has issued several letters concurring with Operator's proposed work plans.

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

Staff received project information relating to an Operator's request to conduct a waterflood project located in the Elk Hills Oil Field. This waterflood project is being proposed as part of the Operator's transition plan to end its current water disposal activities in the upper portion of the Tulare Formation above the Amnicola Clay. In addition, Staff received a second project related to the Operator's request to conduct waterflood injection as part of its transition plan. Staff has reviewed the information provided and sent letters with its initial questions to CalGEM. CalGEM provided Staff with responses to Staff's initial questions. Staff are reviewing the information provided.

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

Staff sent four letters and memorandums requesting additional information for UIC projects in the Cymric and Midway-Sunset Oil Fields.

Staff received responses to initial reviews performed for proposed water disposal projects in the Kern River and Fruitvale Oil Fields. Staff are reviewing the information provided.

Staff received project information relating to requests to conduct steam flood and cyclic steam projects in the Kern River, Lost Hills, Cymric, and Midway-Sunset Oil Fields. Staff are reviewing the information provided.

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

Since the last Executive Officer's Report, Staff have completed reviews of two WST Applications for the Aera Energy, LLC South Belridge Oil Field. Staff submitted written comments to the State Water Board.

Staff reviewed a revised Chevron U.S.A. Inc. groundwater monitoring addendum for the Lost Hills Oil Field. Staff reviewed a second revised Aera LLC work plan for the installation of a groundwater monitoring well at the King Ellis Lease in the South Belridge Oil Field. Staff submitted written comments on these reviews to the State Water Board.

# **IRRIGATED LANDS REGULATORY PROGRAM (ILRP)**

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

Central Valley Water Board staff holds regular ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The last meeting was held on April 14th and focused on implementation of the CV-SALTS Basin Plan Amendments. The next meeting is scheduled for July 14th and will focus on the development of Groundwater Protection Values.

More information regarding the stakeholder meetings can be found on the Central Valley Water Boards' [ILRP – Stakeholder Meetings and Workgroups web page](#).

([https://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/regulatory\\_information/stakeholder\\_advisory\\_workgroup/index.html](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.html)).

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

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

Based on an evaluation of the considerations listed above, Staff is recommending exemption of the Goose Lake Sub watershed (Modoc County) from the Irrigated Lands Regulatory Program. The staff recommendation was released for public review and comment from 26 February to 2 April 2021. Staff received 12 comment letters on the draft findings and recommendations paper, all in support of the proposal. Staff is currently drafting a Board resolution to exempt Goose Lake irrigated pasture from the Irrigated Lands Regulatory Program, possibly for Board consideration at the August 2021 Board Meeting. The requisite noticing and comment periods will be provided.

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

### **DATA MANAGEMENT AND CROSS PROGRAM COORDINATION**

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

## **DRINKING WATER WELL MONITORING OUTREACH**

Drinking water well monitoring continues for members in the East San Joaquin Water Quality Coalition (ESJWQC) and coalitions in the Tulare Lake Basin. ESJWQC members were required to monitor drinking water wells on enrolled parcels starting in 2019. Tulare Lake Coalition members were required to start sampling in 2020. In 2021 the San Joaquin & Delta, Grasslands and Westside San Joaquin River Coalitions started their monitoring. Board staff is continuing to work with members by providing guidance and answering questions. Within the region, there has been over 7800 wells monitored for nitrate and nitrite as nitrogen as a result of this program, and that data is publicly available on GeoTracker.

Board staff is tracking notification submittals and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users accordingly. From March 1 through April 30, staff sent 12 letters to ESJWQC members/landowners reminding them of the notification requirement. Our outreach indicates that many members of the Westside San Joaquin River Coalition are using bottled water. Staff continues to follow up with phone calls, emails, letters and notices of violation, as necessary.

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 April 2021, there were 1,359 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 1,050 signed Drinking Water Notification Templates. From March through April staff have contacted 104 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

For the August board meeting, staff will present an informational item to update the Board on the status and implementation of the ILRP's drinking water well monitoring requirements.

## **REMINDER LETTERS FOR ENROLLMENT**

In response to the pandemic, Water Board staff have been sending out reminder letters prior to 13260 directives to owners of potential commercial irrigated lands. Reminder letters are sent to potential non-filers to provide them with information on the ILRP and steps for enrolling in the program. Staff then follows up with directives as needed. Coalition areas not shown had no reminder letters mailed during the reporting period.

<b>Coalition Area</b>	<b>Reminder Letters sent Mar 1- Apr 30</b>
East San Joaquin	129
<b>Total</b>	<b>129</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 Mar 1- Apr 30</b>
East San Joaquin	193

## **INFORMAL ENFORCEMENT FOLLOW UP**

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program. After issuance of reminder letters, 13260 directive letters are sent when there is no response, followed by Notices of Violation (NOV) as needed. Staff is working on issuance of some NOVs which will be reported on in the next EO report. There is currently no enforcement occurring beyond NOVs. Staff works closely with the agricultural water quality coalitions throughout the compliance and enforcement process.

## **SACRAMENTO RIVER WATERSHED COALITION GROUPS**

### **CALIFORNIA RICE COMMISSION**

On 20 January 2021, the California Rice Commission submitted the 2020 Rice Pesticide Evaluation Update as an addendum to the 2020 Annual Monitoring Report. The Rice Pesticide Evaluation is required to be updated every 5 years and is used to identify pesticides for monitoring in surface water. The 2020 Rice Pesticide Evaluation Update is currently under staff review.

On 15 April 2021, the California Rice Commission submitted an amendment to their Quality Assurance Project Plan. The amendment provides updates to recognize new contractors, constituents, and analytical methods. The amendment is currently under staff review.

On 30 April 2021, the California Rice Commission submitted a revised Groundwater Quality Trend Monitoring Workplan. The revised Workplan provides updates on completed trend monitoring results and the groundwater monitoring well network. The Workplan is currently under staff review.

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

On 8 March 2021, Staff received a proposed Groundwater (GW) MPIR template. The GW MPIR template was a revision of the Coalition's 24 November 2020 submittal. Revisions reflect Staff comments and discussions with the Coalition. The revised GW MPIR template is currently under staff review.



On 3 May 2021, Staff received the Coalition's Annual Groundwater Quality Trend Monitoring (GQTM) Report, which provides results from the 2020 groundwater monitoring program. The GQTM Report is currently under staff review.

On 3 May 2021, Staff received the Coalition's Annual Report, including the 2020 surface water monitoring results and discussion, Management Plan Progress Report, and Chlorpyrifos & Diazinon TMDL report. The Annual Report is currently under staff review.

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

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

On 1 May, staff received the East San Joaquin Water Quality Coalition 2021 Annual Report for the monitoring program from October 2019 through September 2020. The report is currently under staff review.

On 1 May, staff received the 2021 Annual Monitoring Report for the San Joaquin Chlorpyrifos and Diazinon Total Maximum Daily Load (TMDL) Compliance Monitoring prepared jointly by the East San Joaquin Water Quality Coalition and the Westside San Joaquin River Watershed Coalition. The report is currently under staff review.

On 7 May, the EO approved the East San Joaquin Water Quality Coalition and the Westside San Joaquin River Watershed Coalition request to reduce chlorpyrifos and diazinon TMDL monitoring and reporting.

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

On 23 March, staff provided a draft memo regarding the 18 December 2020 Groundwater Quality Assessment Report (GAR): 2020 Five-Year Update. The draft memo requested the Coalition to submit an addendum to detail a discussion on criteria for when/if an HVA boundary will be changed. This addendum should also provide more details on the pesticide detections that were found during the data collection.

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

On 30 November, the Coalition submitted the annual Summary of Management Practice Information Report (MPIR) and Irrigation and Nitrogen Management Plan (INMP) Summary Report, each covering the period 1 March 2019 through 28 February 2020. The report was approved on 12 April.

### **GRASSLAND DRAINAGE AREA COALITION**

On 28 January 2021, the Grassland Drainage Area Coalition received approval of extensions for select documents including the Annual Monitoring Report for 2020. The Annual Monitoring Report for 2020 is due by 30 June 2021.

## **TULARE LAKE BASIN COALITION GROUPS**

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

On 30 April 2021, staff provided an approval letter to the Kings River Water Quality Coalition's Groundwater Quality Trend Monitoring Plan for the upcoming 2021 sampling event. The plan proposed a sampling network of 40 wells. In addition, the Coalition proposed seven wells be added to the network in four areas identified as having inadequate well coverage

### **TULE BASIN WATER QUALITY COALITION**

On 4 March 2021, staff provided comments on the Tule Basin Water Quality Coalition's 2019 Annual Monitoring Report. Staff requested additional information in the methodologies used in filtering Nitrogen Management Plan Summary Report data. On 30 April 2021 Tule Basin Water Quality Coalition provided a response which is currently under staff review.

## **OTHER PROJECTS**

### **GROUNDWATER PROTECTION FORMULA**

On 19 January 2021, the Executive Officer conditionally approved the joint Groundwater Protection Formula Workplan for Central Valley Coalitions. The Groundwater Protection Formula will provide the foundation for developing Groundwater Protection Values and Groundwater Protection Targets required under ILRP General Orders. Prior to approval, the Workplan was made available for public comment and staff held multiple meetings with Coalitions and interested stakeholders to identify and resolve key issues. Submittal of the Groundwater Protection Values and additional information required as a condition of approval will occur by 19 July 2021.

### **MANAGEMENT PRACTICES EVALUATION PROGRAM PHASE 3 TECHNICAL MEMO**

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

### **DATA MANAGEMENT**

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

During March and April, staff audited SWAMP and CEDEN data records to examine if records were accurate. Staff discovered a number of field sample records that were not uploaded to CEDEN. Staff and SWAMP are coordinating to repair the problem.

In March and April, Data Management Team staff submitted 6 Kings River Watershed Coalition Authority backlogged EDDs through fourth quarter 2018 to SWAMP for subsequent CEDEN loading. Staff also submitted 3 Sacramento Valley Water Quality Coalition's 4th Quarter 2020 to SWAMP.

## **GRASSLAND BYPASS PROJECT**

The Grassland Bypass Project Drainage Management Plan was submitted on 6 December 2020. The submittal discusses activities and measures being conducted under Order R5-2019-0077 to meet water quality objectives for selenium, molybdenum, boron, and salinity. After a public comment period and initial staff review, revisions to the Plan were requested on 2 March 2021. The revised Plan is due on 31 May 2021.

On 1 March 2021, the Grassland Bypass Project Pyrethroid Control Program Implementation Plan for 2021 was submitted. After revision in response to staff comments, the Plan was approved on 26 March 2021.

On 29 April 2021, the 2020 Annual Monitoring Report for the Grassland Bypass Project was submitted. The Annual Monitoring Report covers the surface water monitoring period from 1 January through 31 December 2020. The Report is current under staff review.

## **NON-POINT SOURCE (NPS)**

### **CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE**

Board staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Responsible parties include: Lake County, Lake County MS4 Permittees, US Forest Service, US Bureau of Land Management, and Lake County Farm Bureau. Board staff has sent enforcement orders to each responsible party to obtain this information. There have been delays in this process due to restrictions caused by COVID-19. To date, all responsible parties have submitted deliverables, which are being reviewed to determine compliance with specified load allocations. The information submitted by the responsible parties will be summarized in an updated Technical Memorandum. Next steps will be determined following the review of all deliverables.

The Blue-Ribbon Committee for the Rehabilitation of Clear Lake will next meet remotely on 23 June 2021. At the prior quarterly meeting, updates were provided by Committee members and UC Davis. The Committee also discussed how best to utilize remaining Prop 68 funds. Recommendations on which projects to fund will be compiled by the Committee facilitator and shared with the group. Decisions on which projects should move forward will be decided at a future Blue-Ribbon Committee meeting. Meeting

details are publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency's [Blue Ribbon Committee website](#):

(resources.ca.gov/clear-lake/)

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

(www.waterboards.ca.gov/centralvalley/water\_issues/tmdl/central\_valley\_projects/clear\_lake\_nutrients/index.shtml)

## CANNABIS

### GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Staff are currently processing approximately 32 pending applications in Nevada County and will be focusing on increasing enrollments and enforcing upon the most egregious sites in the Targeted Priority Watersheds in Nevada County through 2021.

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

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

County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	4	28	5	0	37	3	0	77
Colusa	2	1	0	0	1	0	0	4
Contra Costa	1	0	0	0	0	0	0	1
El Dorado	0	4	0	0	2	0	0	6
Kern	1	0	0	0	0	0	0	1
Kings	1	0	0	0	0	0	0	1
Lake	53	139	3	0	267	2	6	470
Fresno	4	0	0	0	5	0	0	9
Merced	5	0	0	0	0	0	0	5
Nevada	18	264	4	1	17	0	0	304
Sacramento	143	0	0	0	0	0	0	143
San Joaquin	2	0	0	0	1	0	0	3
Sierra	0	2	0	0	0	0	0	2
Solano	4	0	0	0	0	0	0	4
Shasta	0	0	0	0	0	0	0	0
Siskiyou	6	0	0	0	0	0	0	6

County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Stanislaus	19	7	0	0	2	0	0	28
Tulare	6	0	0	0	0	0	0	6
Yolo	2	18	0	0	44	0	0	64
Yuba	2	0	0	0	0	0	0	2
<b>Totals</b>	<b>273</b>	<b>463</b>	<b>12</b>	<b>1</b>	<b>376</b>	<b>5</b>	<b>6</b>	<b>1136</b>

## OUTREACH

On May 14<sup>th</sup>, Sue McConnell participated in Patrick Brown’s UC Davis Plant Science class regarding mineral nutrition of plants. Sue provided an overview of the Irrigated Lands Regulatory Program and some of the groundwater protection elements. Thomas Harter, Parry Klassen and John Dickey spoke about nitrate loading in the Central Valley, management plans, and the Management Practice Evaluation Program.

Staff are scheduling outreach events in Lake and Nevada Counties for June 2021.

## COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

Cannabis staff continue to develop methods to increase our presence with minimal impact to current resources. Staff worked with Region 1, Region 3, Office of Enforcement and the Division of Water Rights to prepare a training for CDFW. This training is now being used by CDFW law enforcement to train their staff. CDFW and CDFW can refer cases and request review by Cannabis staff if they observe water quality violations while performing warrant inspections.

Staff recently revised the 13260 Order for enrollment in the General Order which was reviewed and approved by the Office of Chief Counsel (OCC). Enrollment Enforcement orders for 13 sites in will begin in April in the Squirrel Creek Watershed in Nevada County, just west of Grass Valley, will be sent out by the end of May 2021. Staff are coordinating the effort with the Division of Water Rights who have identified six of the 13 sites as having potential violations.

OCC attorney Chris Moskal has been assigned to the Cannabis Program.

## COMPLIANCE

On May 18-19, enforcement and permitting staff are participating in CDFW inspection effort in Lake County at several sites that may result in referral to the enforcement team.

## ENFORCEMENT

Staff are performing follow up enforcement activities on the remaining cases that were brought forward after the backlog reduction task. Staff are expected to be conducting inspections in Nevada County in May and June 2021.

## GRANTS

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

Approximately \$4 million each year through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. [For more information, please visit the NPS website](#)

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

The 2021 Clean Water Act section 319(h) Grant Solicitation closed on 18 December 2020. State Water Board and the Regions are in the process of reviewing applications. Projects selected for funding will be notified after the review process is complete. A copy of the Grant Program Solicitation Notice and the Grant Program Guidelines can be found on the [State Water Board's NPS Control Program webpage](#).

([www.waterboards.ca.gov/water\\_issues/programs/nps/319grants.html](http://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. A time extension was requested in September 2020 due to delays with subcontracting and COVID restrictions. The request was approved, and the grant was extended to February 2024. (Closing 2/28/2024)

## **SOUTH FORK BATTLE CREEK SEDIMENT REDUCTION AND WATER QUALITY ENHANCEMENT PROJECT (\$603,654)**

In 2012 the greater Battle Creek watershed was impacted by the Ponderosa wildfire. The resulting increases in post fire stormwater runoff has led to continual discharges of sediment, metals, nutrients, and other pollutants to the adjacent streams, threatening aquatic wildlife (threatened and endangered species) and public health (drinking water). A 3.5 mile section of Ponderosa Way in Eastern Tehama County, north of State Route 36E (Project Area), was identified and prioritized as an area which needed sediment and erosion control treatments to minimize the continued discharges of sediment to South Fork Battle Creek. In 2019 a grant application proposal was prepared by the Tehama County Resource Conservation District (TCRCD) and was submitted to the State Water Resource Control Board (SWRCB). The proposal outlined implementation of the identified erosion and sediment control measures for the Project Area. In April 2020, the SWRCB approved the use of CWA 319 grant funds for the proposed project. In August 2020, the TCRCD submitted an updated Statement of Work and Budget to the SWRCB for review and consideration. Currently, SWRCB Division of Financial Assistance is still working to finalize the grant agreement with the TCRCD to implement the proposed project. (Closing 2/28/2023)

## **TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:**

### **POST-FIRE RESPONSE TO FOREST MANAGEMENT (\$329,519) – CLOSED 3/31/2021**

The California Department of Forestry and Fire Protection has fulfilled grant requirements related to quantifying the effects of post-fire management practices such as logging, ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest.

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

The Western Shasta Resource Conservation District has completed a 23-mile road assessment inventory in the North Fork Battle Creek watershed. The grantee has compiled and prioritized all road-related sediment inputs described in the road assessment inventory into a final Action Plan report. A technical advisory committee (TAC) and subsequent field workshop were conducted in July 2020, resulting in selection of demonstration sites. The grantee and Shasta County Public Works have participated in on-site training during implementation and completion of two demonstration sites along Rock Creek Road and Forward Mills Road. The grantee has obtained public agency permits from the California Department of Fish and Wildlife and Central Valley Regional Water Quality Control Board and submitted an encroachment permit to Shasta County for the implementation of the demonstration sites. The grantee

continues to facilitate progress on permitting, contracting, and compliance in preparation for implementation of the additional demonstration sites. (Closing 10/31/2021)

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

The purpose of this project is to implement erosion control treatments to reduce sediment delivery to streams from Forest Service system roads, unauthorized roads, legacy skid trails, and landings within the North Yuba River Watershed. American Rivers Inc. have inventoried approximately 67 miles of roads, skid trails, and landings within the project area and have prepared an Action Plan to implement at least 15 miles of erosion control treatments. The grantee completed implementation work for the Deer Creek North Yuba River Watershed Sediment Reduction Project on 16 September 2020. Work has progressed without any major delays or deviations. With construction work completed, the grantee has prepared, in coordination with the Tahoe National Forest, to conduct post-project wet season monitoring which will be initiated upon snow melt. The grantee has completed timely invoicing, progress reports, and has also completed the Non-Point Source Pollution Reduction Project Follow-up Survey Form. (Closing 2/28/2022)

### **AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)**

The American River Conservancy has thinned approximately 243 acres of merchantable timber under a CALFIRE Fire Prevention Pilot Project Exemption in the Greyhorse valley. Thinning operations have met and exceeded grant requirements and currently the grantee is looking at upgrading the road network throughout the project area. Due to high wildfire danger during the summer of 2020, the grantee failed to reach a 400-acre thinning goal. The grantee hopes that this goal can be surpassed in the 2021 season if weather conditions permit. At this time, the grantee has bid approximately 600 acres for the 2021 season and hopes to catch up on overall project goals. (Closing 3/30/2022)

### **UPPER BIDWELL PARK ROAD AND TRAIL SEDIMENT SOURCE ASSESSMENT AND REDUCTION PROJECT (\$706,352)**

The purpose of this project is to address the discharge of sediment from Upper Bidwell park roads and trails into Big Chico Creek Watershed through the implementation of a Sediment Source Assessment and Treatment Plan. The grant agreement was executed in early July 2020. The grantee is currently working with contractors, CA Department of Fish and Wildlife (CDFW), and the Regional Water Board on the preparation of environmental permit applications which was slightly delayed while addressing a public concern. The grantee has completed final design specifications as well as started road and trail inventories for the second phase of the project. A draft Mitigated Negative Declaration (MND) was prepared and is currently under review by city of Chico staff. Once finalized, it is anticipated the solicitation of bids and any other applicable permitting will be completed by the next reporting period. (Closing 6/30/2023)



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

The purpose of the project is to fix select priority Significant Existing and Potential Erosion Sites (SEPES) on the Eldorado National Forest (ENF) that were identified on haul routes associated with timber sales implemented under the King Fire Restoration Project (KFRP). Stream crossing structure replacement, road drainage improvements, road reconditioning, armoring of structures, rebuilding of fill slopes, and landslide removal are among the work expected. Funding will be used to replace multiple large failed and at-risk stream crossing structures with an emphasis on designing crossings to accommodate a 100-year event, plus associated sediment, and debris. CEQA has been completed. A Notice of Exemption was approved and concurred by State Board in July and filed with the Clearinghouse on August 26<sup>th</sup>, 2020. The grantee has recently submitted their project assessment and evaluation plan as well as their proposed schedule of operations. The grantee is currently working with the Eldorado National Forest to further coordinate for the upcoming construction season. Currently, the grant is on schedule to meet all critical deliverable dates. (Closing 6/30/2023)

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

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

\*On 17 April 2021, Meredith Howard participated as a water expert and judge in the San Joaquin County H2O Hackathon which is an annual competition of students from middle school, high school, and college to build apps to help solve California’s tough water issues while competing for \$5,000 grand prize awarded to each division.

\*On 22 April 2021, Omar Mostafan and Lourin Hubbard participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

\*On 27 April 2021, Patrick Pulupa, Adam Laputz, Clay Rodgers, Anne Walters, Cindy Au-Yeung, True Khang, Walter Plachta, Jennifer Fuller, and Dania Jimmerson participated in a Virtual Public Workshop along with Board Members Karl Longley and Denise Kadara to hear comments on Management Zone Preliminary Management Zone Proposals and Early Action Plans to provide safe drinking water to communities impacted by nitrate pollution.

\*On 28 April 2021 Elizabeth Betancourt facilitated a public outreach stakeholder meeting for the TBU designation process. In attendance representing the Board were Board Chair Longley, Board Member Bradford, Patrick Pulupa, Adam Laputz, Meredith Howard, Lauren Smitherman, Robert L’Heureux, and Taran Sahota. Staff received constructive input from participants regarding structuring the process for TBU designations.

On 29 April, James Taylor and Alex MacDonald provided updates on the former McClellan AFB and Aerojet Rocketdyne projects, respectively at a meeting of the Sacramento Groundwater Authority. The updates provided the latest estimates of capture of the contaminant plumes and future steps to address data gaps.

\*On 2 May 2021 Elizabeth Betancourt participated in a meeting with the California Indian Water Commission (CIWC), a Tribal Organization, regarding cultural use, water quality, and access issues they are having to waterways in the Central Valley region.

\*On 5 May 2021, Robert L'Heureux, Meredith Howard, and Adam Laputz met with the Cultural Resource Manager of the Yocha Dehe Wintun Nation to discuss ways in which Regional Board staff and Yocha Dehe can improve consultations and collaborations. Both parties agreed to have future discussions on this topic.

On 6 May 2021, George Low an Engineering Geologist with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III virtual meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, plan and provide training for emergency response incidents resulting from chemical hazards within the Region. The Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee.

This month's meeting discussed membership recruitment for open member positions on the committee. The meeting also included discussions of upcoming regional trainings, and a presentation from the US DOT Pipeline and Hazardous Materials Safety Administration: Increase industry awareness of regulatory requirements, assist businesses with resources for compliance with regulations, and provide technical assistance to industry, enforcement, emergency response, and planning communities.

Participating agencies also provided agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

On 11 May 2021, Lourin Hubbard participated (via conference call) in the Fresno IVAN Reporting Network task force meeting to discuss concerns and complaints from residents and community at large.

On 12 May 2021, Janis Cooke participated in the Interagency Ecological Program meeting of Project Work Team chairpersons and stakeholders. Project work teams provided updates regarding current fisheries, food web, and other studies. Janis described the Board's Delta HABs work and interest in sharing of data.

On May 14th, Sue McConnell participated in Patrick Brown's UC Davis Plant Science class regarding mineral nutrition of plants. Sue provided an overview of the Irrigated Lands Regulatory Program and some of the groundwater protection elements. Thomas Harter, Parry Klassen and John Dickey spoke about nitrate loading in the Central Valley, management plans, and the Management Practice Evaluation Program.

\*On 18 May 2021, Sue McConnell met with representatives from Clean Water Action, Leadership Counsel for Justice and Accountability and Environmental Law Foundation to discuss development of the Groundwater Protection Values.

On 19 May, Alex MacDonald presented an update on the Aerojet activities to the Aerojet Community Advisory Group highlighting field activities undertaken by Aerojet. This included construction of new monitor and extraction wells, available documents, cleanup and monitoring at Area 40, PFAS and investigation status at the Boundary Operable Unit.

On 25 May 2021, Meredith Howard participated on an invited panel for the Symposium on Harmful Algae in the United States. The Symposium has occurred bi-annually since 2000 and brings together the science and management communities to discuss the current state of knowledge on harmful algal blooms (HABs) and to identify management and mitigation solutions.

## **GENERAL UPDATES TO THE BOARD**

### **CONSTITUENTS OF EMERGING CONCERN (CEC)**

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

Data for the first sampling event for water has been reviewed by the Aquatic Science Center (ASC) and submitted to the CEC Subcommittee. Current dry conditions have not triggered mobilization for subsequent spring sampling events. Additional dry sampling events for Year 1 are proposed to take place to adjust to these conditions and meet sampling event requirements for Year 1 of the Work Plan. Due to restructuring at the Department of Water Resources, in-kind contributions to sample some sites will not be available for the Year 2 and 3 of the Work Plan. Funding and logistics plans for Year 2 of the Work Plan are being developed by the CEC Subcommittee for review and will take into account the process needed to sample at sites covered by the Department of Water Resources in-kind contributions.

## **PERSONNEL AND ADMINISTRATION**

### **STAFFING UPDATES – 1 MARCH 2021 – 30 APRIL 2021**

#### **PROMOTIONS:**

Isabella Bencomo - EG

#### **NEW HIRES:**

Amber Ginorio - EG

Daniel Gamon - SR EG

E Xiong - AGPA

Stephani Torres – WRCE

Nathan Casebeer - SR EG

Anna Mancillas - AGPA

#### **RETIREMENT:**

James Taylor - SR EG

#### **SEPARATIONS:**

Gretchen Woessner - ES

#### **LEAVE OF ABSENCE:**

None

#### **SUMMARY OF POSITIONS:**

**Total Authorized Positions:** 270.2

**Total Vacant Positions:** 23.9

#### **Sacramento**

Authorized Positions: 148.5

Vacancies: 14.9

#### **Fresno**

Authorized Positions: 73

Vacancies: 6

## Redding

Authorized Positions: 48.7

Vacancies: 3

### Temporary Positions:

None

### New Hires:

Andrew Schaefer - SA

Devin McDonald - SA

### Separations:

Kayla Spratt - SA

## TRAINING UPDATES - MARCH 1, 2021 – APRIL 30, 2021

Class Title	Number of Attendees
11th Biennial Bay-Delta Science Conference	5
8-Hour HAZWOPER Refresher	9
Advanced Project Management	3
Art and Science of Motivation and Morale	2
Basic GeoTracker	22
Best Hiring Practices	4
CA Engineering Surveying Exam 10 week on demand review course	1
California Civil Engineering Seismic OnDemand Course	1
California Leadership Academy - Supervisor Development Program (80 Hour Program)	1
California Seismic	1
California Water Board Computer Workstation Ergonomic Program	1
CASQA Quarterly Meeting - Stormwater Capture and Reuse	3
Civil Water Resources & Environmental Depth Live Online Course	1
Coaching and Mentoring	7
Creating Accessible Adobe PDF Documents	2
Critical Thinking	1
Customer Service Strategies	2
Data Science for Leaders: Demystifying Data Science for Water Resource Managers	1
EEO: Workplace Rights and Responsibilities	1
Electronic Writing	2
Ergonomics: The Homemade Home Office	2

<b>Class Title</b>	<b>Number of Attendees</b>
Executive Leaders 2021 Series - Difficult Conversations	1
Field Safety Training	1
From Managing Self to Managing Others	7
GeoTracker Basics	1
Hazard Communication (HAZ COM)	1
Highly Effective Professional Writing	3
Injury and Illness Prevention Program (IIPP)	1
Intermediate Communicating Effectively in Complex Organizations	5
Interpersonal Communication Skills	7
Introduction to Hydraulic and Hydrologic Modeling	3
Introduction to GIS	2
Microsoft Excel Level 2	4
Microsoft Excel Level 3	3
NPDES Permit Writers Course	1
Quality Assurance: General Quality Assurance 101	3
Salmonid Restoration Federation 2021 Virtual Conference	1
Sexual Harassment Prevention Training	3
So, You Want to be a Supervisor?	11
Strategies for Collecting Data Analyzing Data and Reporting Results	8
Supervisor Development Program (80 Hour Program)	1
Surveying-10 Week-On-Demand	1
Time Management	3
Tribal Engagement, Course 1: Cultural Awareness	1
Trust Among Remote Team Members	8
US EPA Permit Writer's Course - Virtual Guided Learning (March PM)	1
Writing Effective and Compliant Duty Statements	5

## **FISCAL UPDATE**

A fiscal update cannot be provided at this time due to the Water Board's implementation of the Fi\$Cal accounting system. This information will be provided once budget reports become available.

## CONTRACTS

### OPERATIONAL SUPPORT SERVICES

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
20-012-150	Capitol Helicopters	Helicopter aerial surveillance services (Rancho Cordova office – SB 901 funds)	TBD	6/30/2023	\$60,000
20-072-150	Air Shasta Rotor & Wing, Inc.	Helicopter aerial surveillance services (Redding office – SB 901 funds)	TBD	6/30/2023	\$95,000
TBD	TBD	Helicopter aerial surveillance services (Fresno office – SB 901 funds)	TBD	6/30/2023	\$30,000

### WATER QUALITY STUDY/PLANNING

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
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
18-058-150	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
19-003-150	Southern California Coastal	The project will identify the environmental drivers contributing to	9/27/2019	03/31/2022	\$510,000

<b>Contract Number</b>	<b>Contractor Name</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>	<b>Amount</b>
	Water Research Project Authority	cyanobacterial blooms and toxin production in Clear Lake, Lake County.			
19-004-150	34 North	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	11/21/2019	3/31/2022	\$95,000
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	6/30/2022	\$525,000
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	12/1/20	11/30/2023	\$250,000
20-034-150	University of Santa Cruz	Determine the extent of beneficial use impairments caused by cyanobacteria harmful algal blooms (HABs) and toxins produced by the cyanobacteria, called cyanotoxins.	4/15/2021	1/31/2023	\$200,000
21-026-150	United States Geological Survey	To study the occurrence, distribution, and sources of Sacramento Splittail deformities believed to be caused by selenium in the San Joaquin River, Sacramento River and Delta system.	TBD	3/31/2024	\$100,000



## **FUTURE BOARD ACTIVITIES**

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

### **AUGUST 2021 BOARD MEETING**

#### **NPDES PERMITTING**

- Sewerage Commission Oroville Region WWTP Renewal
- City of Live Oak WWTP Rescission

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

- City of Modesto WWTF (Revised)
- Rivermaid Trading Company (Revised)
- Dunnigan WWTF (Revised)
- Jamestown WWTF (Revised)
- Azteca Milling (Revised)
- Fink Road Landfill
- Recology Hay Road Landfill

### **OCTOBER 2021 BOARD MEETING**

#### **NPDES PERMITTING**

- City of Grass Valley WWTP Rescission
- Bear Valley Water District WWTF Renewal

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

- Walmart Distribution Center (Revised)
- California Concentrates (Revised)
- Sierra Pacific Industries Martell (Revised)
- City of Farmersville WWTF (Revised)
- SPI Martell

## **DECEMBER 2021 BOARD MEETING**

### **NPDES PERMITTING**

- Limited Threat General Order Renewal
- City of Lathrop WWTP (New Permit)
- North Valley Regional Recycled Water Program Renewal
- City of Chico WPCP Renewal
- City of Colusa Renewal
- Sterling Caviar Fish Hatchery Renewal
- City of Willows WWTP Rescission
- CDCR Deuel Vocational Institution NPDES Permit Amendment

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

- Greenville WW Ponds (Revised)
- Degroot WTP (Revised)
- Vita-Pakt Citrus Products (Revised)
- S. San Joaquin Irrigation District, DeGroot WTP

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

### **NPDES PERMITTING**

- Sliger Mine Renewal
- City of Auburn WWTP Renewal
- Mountain House CSD WWTP Amendment
- Bear Valley CSD WWTF Renewal
- City of Nevada City WWTP Renewal
- City of Modesto WQCF Renewal
- American Valley WWTP Renewal
- City of Chico WPCP Renewal
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Angels City WWTP Renewal

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

- General Order for Large WWTF (New)
- General Order for Nut Hullers (New)
- General Order for Food Processors (New)
- Bronco Winery (Revised)
- California Olive Ranch – Artios (Revised)
- CDCR Mule Creek State Prison WWTF (Revised)
- City of Ceres WWTF (Revised)
- City of Dinuba WWTF (Revised)
- City of Madera WWTF (Revised)
- Kern Sanitation District WWTF (Revised)
- Kettleman City WWTF (Revised)
- Morris Ravine Mine/Mineral Resc. (Revised)
- Pilot Travel Center (Revised)
- Sierra Nevada Cheese (Revised)
- Sonora Regional WWTF (Revised)
- Sun Pacific Exeter Packinghouse (Revised)

## **STORM WATER AND WATER QUALITY CERTIFICATION**

- Dredging

## ATTACHMENT A

### ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 March 2021 through 30 April 2021

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	105	62%
Other	59	35%
Grease Deposition (FOG)	2	1%
Damage by others not related to CS Construction/Maintenance	1	1%
Debris-General	1	1%
Operator Error	1	1%
<b>Total</b>	<b>169</b>	<b>100%</b>

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 March 2021 through 30 April 2021

Office	Category 1	Category 2	Category 3	Total
5F	0	1	5	6
5R	1	3	2	6
5S	10	4	143	157
<b>Total</b>	<b>11</b>	<b>8</b>	<b>150</b>	<b>169</b>

## ATTACHMENT A

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

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

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

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

### Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 1 March 2021 through 30 April 2021

REGION	AGENCY	Collection System	SSO Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento City	City of Sacramento Utilities CS	873007	Sacramento	Yes	24,900	24,900	03/17/21	Grease Deposition (FOG)
5S	South Placer MUD	South Placer Mud CS	873563	Placer	Yes	23,541	23,343	04/06/21	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	872990	Sacramento	Yes	2,218	2,167	03/16/21	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	873704	Sacramento	Yes	1,749	1,709	04/19/21	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	872924	Sacramento	Yes	800	731	03/09/21	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	872944	Sacramento	Yes	844	703	03/07/21	Root Intrusion

## ATTACHMENT A

REGION	AGENCY	Collection System	SSO Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	872838	Sacramento	Yes	658	650	03/07/21	Debris-General
5R	Shasta Lake City	Shasta Lake CS	873866	Shasta	Yes	500	500	04/29/21	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	872927	Sacramento	Yes	162	96	03/12/21	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	872827	Sacramento	Yes	29	27	03/09/21	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	872992	Sacramento	Yes	42	27	03/18/21	Root Intrusion