

EXECUTIVE OFFICER'S REPORT

20 FEBRUARY 2020

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

Patrick Pulupa, Executive Officer



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

SUCCESS STORIES

SITE CLEANUPS

FORMER SHASTA PULP AND PAPER MILL, ANDERSON, SHASTA COUNTY

Staff of the Redding Groundwater Unit are providing oversight for an investigation of the potential water quality threats associated with the 62-acre former Shasta Pulp and Paper Mill site. The \$1.2 MM investigation is funded by the State Water Resources Control Board (State Water Board) Site Cleanup Subaccount Program (SCAP). Because the current property owner is uncooperative, it was necessary to gain site access via a forcible entry inspection warrant issued by a Shasta County Superior Court judge. The warrant's 10-week duration is unprecedented in Shasta County. Between 9 October and 13 December 2019, a State Water Board contractor completed the Phase I Investigation field work. A total of 104 borings were advanced, and a total of 57 soil vapor samples, 197 soil samples, and 9 grab groundwater samples were collected for laboratory analysis. The contractor is preparing a technical memorandum documenting the Phase I findings and will prepare a Work Plan for continued investigation to be completed during FY 19/20. (Contact: Bill Bergmann at (530) 224-4852)

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

Central Valley Water Board staff are working with the Union Pacific Railroad Company (UPRR) in its efforts to comply with the requirements of Cleanup and Abatement Order (CAO) R5-2019-0713. UPRR completed the River Investigation portion of the Comprehensive Site Investigation in October 2019. Staff met with UPRR representatives in December 2019 to discuss the draft Comprehensive Site Investigation Work Plan for the upland and riparian areas of the site. The Upland/Riparian portion of the Comprehensive Site Investigation of soil and groundwater is expected to begin in early Spring of 2020. In late November 2019, UPRR completed implementation of the Interim NAPL Discharge Control Plan, which included installation of an oleophilic bio-barrier (OBB) geocomposite material along approximately 880 feet of retaining wall and walkway adjacent to the Sacramento River to control petroleum sheens and encourage biodegradation. In December 2019, staff issued a revised Monitoring and Reporting Program (MRP) due to the changed site conditions after OBB installation. Weekly inspections will continue through the winter to ensure that the Interim Measure remains intact during high flows. (Contact: Jason Schroeder at (530) 224-4788)

LYONDELL ENVIRONMENTAL CUSTODIAL TRUST, BULLY HILL AND RISING STAR MINES, SHASTA COUNTY

The Bully Hill and Rising Star Mines are abandoned copper mines located in remote, steep terrain along the Squaw Creek arm of Shasta Lake. Acid mine drainage from the mines impacts watersheds that are tributary to Lake Shasta. The mines have been

undergoing stabilization and remediation for more than 20 years. In 2009, the Lyondell Environmental Custodial Trust (Trust) was established to fund remediation efforts at the mine sites. For 2019, the Trust funded a site strategy study, hydrology and hydraulics reviews of the mine sites, and operation and maintenance activities. The site strategy study is expected to be submitted in April 2020 and will be used to support decisions regarding additional site stabilization projects to be implemented prior to depletion of the funds managed by the Trust. (Contact: Stacy Gotham at (530) 224-4993)

SURCEASE MINE, BUTTE COUNTY

The Surcease Mine is an abandoned gold mine located in the Yankee Hill mining district of Butte County. The workings lie on a tributary to Lake Oroville and are less than a mile from the lake. In November 2019, staff conducted an inspection of the former mine, under an administrative warrant obtained from the Superior Court of Butte County. Representatives of the Department of Toxic Substances Control, Department of Water Resources Division of Safety of Dams (DSOD), and California Department of Fish and Wildlife also participated in the inspection. The objectives of the inspection were to determine whether the tailings dam that staff identified during a May 2019 inspection falls under DSOD jurisdiction and to assess conditions in the former mill area which was inaccessible during the earlier inspection. Staff are awaiting DSOD's analysis of the tailings dam jurisdiction. Hazardous waste levels of metals in soil were found in the former mill area. (Contact: Stacy Gotham at (530) 224-4993)

UNDERGROUND STORAGE TANKS (UST) – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

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

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

FRESNO

VERBERG BROS., INC., 12778 HANFORD – ARMONA ROAD, HANFORD, KINGS COUNTY

Verberg Bros. reportedly removed a 350-gallon UST from the mixed-use property in approximately 1970. The local agency filed a UST Unauthorized Release Report in September 1991 after a release of petroleum products from the UST was discovered during a Phase II Environmental Assessment pursuant to a property transfer. Verberg Bros. conducted additional soil investigations of the property in 1994 and from 2014 through 2016. Elevated concentrations of petroleum hydrocarbons were initially detected in groundwater in 1994, but additional monitoring was not conducted until August 2014 through January 2017. Verberg Bros estimates that 50 cubic yards of subsurface soil is impacted and contains about 125 pounds of petroleum hydrocarbons, equivalent to about 20 gallons of gasoline. The remaining hydrocarbons are not likely to pose a threat to human health and safety or the environment. A case closure letter was issued in accordance with criteria in the *Low-Threat Closure Policy* on 12 November 2019.

7-ELEVEN #35608, 17990 WEST BUSH STREET, LEMOORE, KINGS COUNTY

During November 2015 UST removal activities, 7-Eleven discovered a UST release when gasoline constituents were detected in soil samples collected beneath the product lines and groundwater samples the floor of the excavation. The local oversight agency provided the information to the Central Valley Water Board during October 2017 and staff filed an unauthorized release report. 7-Eleven installed monitoring wells and gasoline constituents were not detected in groundwater during four consecutive monitoring events conducted through November 2018. Staff concluded that a minor UST release had occurred, and if present, remaining source mass is of limited extent beneath the currently operated UST system. Any remaining gasoline constituents are not likely to pose a threat to human health and safety or the environment and water quality objectives have been achieved. A case closure letter was issued in accordance with criteria in the *Low-Threat Closure Policy* on 29 October 2019.

EL MONTE EXXON, 10388 AVENUE 416, SULTANA, TULARE COUNTY

Exxon discovered a release in 1999 during UST removal activities when gasoline constituents were detected in soil samples collected beneath the USTs and fuel dispensers. Exxon conducted multiple phases of site investigation and periodic groundwater monitoring were conducted from 2000 through 2018. The case was referred to the Board during 2016, when the Tulare County Local Oversight Program ended. Soil vapor extraction and air sparging removed approximately 97,000 pounds (15,800 gallons) of gasoline constituents between 2010 and 2017 and adsorbent socks and hand bailing removed approximately 700 pounds (115 gallons) of free phase product from groundwater from between 2008 and 2014. The onsite supply well was destroyed during 2008, when the Site was connected to the Sultana Community Services District water system. The remaining hydrocarbons are not likely to pose a

threat to human health and safety or the environment and water quality objectives have been achieved. A case closure letter was issued in accordance with criteria in the *Low-Threat Closure Policy* on 3 December 2019.

REDDING

DESABLA MARKET, CASE 040148, BUTTE COUNTY

The Site is a former mountain town market and gasoline service station. In October 2010, four USTs and associated piping and dispensers were removed from the property under Butte County Environmental Health Division oversight. Petroleum hydrocarbons were detected beneath two of the USTs which were likely the original historic USTs (circa 1910). Approximately 18 cubic yards of petroleum-impacted soil was removed and disposed offsite. In March and April 2016, a site investigation was conducted to further delineate the lateral and vertical extent of residual contamination. The investigation results indicate remaining soil pollution is limited in lateral extent to the vicinity of one of the former USTs and is located at depths of 16 feet or greater. Although the area is not located within a public water system, samples from the onsite well indicate no impacts and the minimum depth to groundwater beneath the property is greater than 30 feet below ground surface. Further, soil vapor samples indicated that the residual soil contamination does not pose a significant health risk from vapor intrusion into future buildings. The Site generally meets the *Low-Threat Closure Policy* and the case was closed in December 2019.

PRIVATE RESIDENCE, CASE 470055, SISKIYOU COUNTY

The Site is a vacant single-story residence with a livable basement. In September 2017, a heating oil UST containing diesel was removed from the Site under Siskiyou County Environmental Health Division oversight. Diesel was detected in soil confirmation samples. Approximately 10 cubic yards of petroleum-impacted soil was removed and disposed offsite. The Central Valley Water Board became the lead agency for the case in December 2017. Because contaminated soil was left in-place adjacent to the basement's cinder block foundation, a vapor intrusion assessment was conducted to determine if residual soil contamination is impacting indoor air quality. Four indoor air sampling events were conducted between January 2018 and May 2019; samples were analyzed for total petroleum hydrocarbons as diesel (TPHd), benzene, and naphthalene. Based on initial indoor air sampling results, the property owner implemented mitigative measures, including sealing off the fireplace and installing vent pipes below the base of the chimney. Subsequent sampling results showed that TPHd was not detected in the upstairs residence and that TPHd concentrations in the basement are in the risk management range. Benzene and naphthalene detected in outdoor and indoor air samples appear to be from a source other than the residual soil contamination. The Site generally meets the *Low-Threat Closure Policy* and the case was closed in December 2019.

SACRAMENTO

BUSI CHEVRON, 8 EAST CALIFORNIA STREET, VALLEY SPRINGS, CALAVERAS COUNTY

The Site is currently developed as a real estate office the west corner of Laurel Street and West Highway 12 in Valley Springs, Calaveras County. In December 1989, three 3,000-gallon gasoline USTs were removed from the Site. In December 1997, an additional 300-gallon gasoline UST was closed in place. Soil and groundwater samples collected from the Site well indicated that the unauthorized release had impacted soil and groundwater at the Site. Approximately 20 cubic yards of impacted soil was excavated and disposed of off-Site during the removal of the USTs in 1989. Additional Site remediation activities included injection of oxygen release compound in February 2005 and October/November 2008, and a dual phase extraction pilot test in July 2010. In 2010, a positive pressure HVAC system was installed inside the Site building as a mitigation measure against potential vapor intrusion. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable. The State Water Resources Control Board concluded that remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the state as they attenuate and closed the case on 4 November 2019.

CALTRANS KINGVALE MAINTENANCE FACILITY, 51121 DONNER PASS ROAD, KINGVALE, NEVADA COUNTY

The Site is a Caltrans highway maintenance station, in operation since 1961, and located adjacent to Interstate 80 in forested lands. Between 1986 and 1996, Caltrans removed or permanently closed 12 USTs at the Site. During the initial UST removal, Caltrans encountered petroleum hydrocarbons, primarily diesel and gasoline, in soil and groundwater, suggesting that a release of petroleum products from the UST system had occurred. Caltrans removed an unknown quantity of soil during the 1988 tank removals; however, Caltrans thermally treated approximately 150 cubic yards petroleum impacted soil stockpiled during tank removal activities. Caltrans removed a total of approximately 14,000,000 gallons of petroleum impacted groundwater and 1,900 pounds of petroleum hydrocarbons. Concentrations of petroleum in the downgradient portion of the plume are stable and the plume is expected to continue to attenuate to below environmental screening levels within a reasonable timeframe. A deed covenant, recorded with Nevada County, restricts the use of groundwater below the Site for non-consumptive uses, such as dust control. Potable water is supplied to the Site by the nearby Pla Vada Water System. Site conditions met the general and site-specific criteria for case closure under the Low Threat Closure Policy, and the case was closed on 3 December 2019.

GRISCHOTT BROTHERS, 8511 HIGHWAY 33, WESTLEY, STANISLAUS COUNTY

The Site is the location of the former "Grischott Bros. Service" service station, tire store, and restaurant, which historically contained four USTs which stored gasoline. The Grischotts removed two USTs in 1988 and abandoned-in-place the other two USTs in

1999. The Site currently contains the tire store and restaurant building; however, the business has not operated for several years. In 1988, during UST removal, the Grischotts detected petroleum hydrocarbon constituents in Site soil samples, indicating that a release had occurred. From December 1999 to August 2003, the Grischotts installed 13 groundwater monitoring wells and initiated routine quarterly groundwater monitoring in December 1999. From 2003 to 2010, the Grischotts operated a soil vapor extraction and groundwater extraction remediation system which removed approximately 102,200 pounds of vapor phase gasoline and 48 pounds of aqueous-phase gasoline. The Grischotts also removed approximately 3.2 gallons of free product from Site monitoring wells using skimmers. Groundwater monitoring continued through December 2010 and decreasing petroleum hydrocarbon concentration trends were observed over time. Site conditions met the general and site-specific criteria for case closure under the *Low-Threat Closure Policy*, and the case was closed on 15 November 2019.

FORMER E-Z SERVE #100792, 4867 OLIVEHURST AVENUE, OLIVEHURST, YUBA COUNTY

The Site is currently a smog and auto repair shop in Olivehurst. In 1989, E Z Serve removed three gasoline USTs and one waste oil UST. Gasoline-related impacts were observed in soil and subsequent investigations identified that gasoline also impacted groundwater with separate phase petroleum found in source area wells. Investigation activities included drilling 6 soil borings, and installing 18 groundwater monitoring wells, 7 remediation wells and 2 soil vapor sample points. Remediation at the Site consisted of high vacuum dual phase extraction and was conducted in four 30 to 60-day events between April 2010 and March 2014, removing approximately 26,400 pounds of petroleum. Groundwater monitoring, conducted from 1991 to 2017, shows a shrinking dissolved petroleum plume. Potential receptors, such as supply wells, are not threatened by the residual petroleum, and natural attenuation processes are expected to continue to degrade the remaining petroleum hydrocarbons at the Site. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment. Site conditions met the general and site-specific criteria for case closure under the *Low-Threat Closure Policy*, and staff closed the case on 22 November 2019.

LOCAL AGENCY UST CLOSURES WITH CONCURRENCE OF BOARD STAFF

Sacramento County

- Siu's Redwood SS #310, 2401 16th Street, Sacramento
- Former Shell, 2400 Del Paso Blvd., Sacramento
- Unocal #4565, 5200 Manzanita Ave., Carmichael

STAFF RECOGNITION

SUSTAINED AND SUPERIOR ACCOMPLISHMENT AWARDS

SUSTAINED SUPERIOR ACCOMPLISHMENT AWARD

At the 5/6 December 2019 Board Meeting, Executive Officer, Patrick Pulupa presented a Sustained Superior Accomplishment Group Award to the following staff:

Employees: Stacy Alexander, Environmental Scientist
Krista Aschenbrener, Scientific Aid
Natalie Bainbridge, Scientific Aid
Heidi Bauer, Sanitary Engineering Associate
Debbie Behnke, Seasonal Clerk
Jorge Beltran, Water Resource Control Engineer
Bill Bergman, Environmental Scientist
Elizabeth Betancourt, Senior Environmental Scientist
Matt Boone, Senior Environmental Scientist
Ashley Bonsey, Seasonal Clerk
Ronna Bowers, Engineering Geologist
Colt Brockman, Environmental Scientist
Melissa Buciak, Engineering Geologist
Stephanie Bucknam, Information Technology Specialist I
Kate Burger, Senior Engineering Geologist
Guy Chetelat, Engineering Geologist
Michael Collins, Water Resource Control Engineer
Ryan Cornwall, Water Resource Control Engineer
Lynn Coster, Senior Environmental Scientist
Michael Crook, Environmental Scientist
Nathan Cullen, Environmental Scientist
Patrick DeCarvalho, Water Resource Control Engineer
Ron Falkowski, Engineering Geologist
Jerred Furguson, Scientific Aid
Monique Gaido, Engineering Geologist
Katie Gilman, Associate Government Program Analyst
Marisol Gonzalez, Engineering Geologist
Stacy Gotham, Water Resource Control Engineer
Debra Hallis, Engineering Geologist
Crystal Hanson, Seasonal Clerk
Kelly Hickcox, Engineering Geologist
Courtney Kasich, Office Technician
Lisa Labrado, Staff Services Manager I
Richard Muhl, Senior Environmental Scientist, Specialist
Justin LaNier, Engineering Geologist
George Low, Senior Engineering Geologist
Harihar Nepal, Environmental Scientist

Mike Nilsen, Water Resource Control Engineer
Jeremy Pagan, Senior Water Resource Control Engineer
Michael Parker, Engineering Geologist
Griffin Perea, Senior Engineering Geologist
Eric Rapport, Senior Engineering Geologist, Specialist
Valerie Rasmussen, Water Resource Control Engineer
Jason Schroeder, Engineering Geologist
Kate Sjoberg, Engineering Geologist
Bryan Smith, Supervising Water Resource Control Engineer
Rebecca Tabor, Water Resource Control Engineer
Dan Warner, Water Resource Control Engineer
Alisha Wenzel, Engineering Geologist
Daniel Whitley, Environmental Scientist
Angela Wilson, Supervising Engineering Geologist
Gretchen Woessner, Environmental Scientist
Scott Zaitz, Environmental Scientist
Heaven Collins, Student Aid

Staff of the Central Valley Water Board's Redding office, and supporting staff at the State Water Resources Control Board's Division of Information Technology (DIT) and Division of Financial Assistance (DFA) are nominated to receive an award for sustained superior accomplishment related to wildfire response activities during 2018, 2019, and continuing.

In the summer and fall of 2018, areas of Shasta and Butte counties experienced unprecedented wildfires. By the time the Carr, Delta, Hirz, and Campfires were out, almost 500,000 acres had burned, and over 20,000 structures had been destroyed. Despite suffering their own personal impacts from the fires, staff of the Central Valley Water Board's Redding office rallied to respond to the water quality, community, and personal needs presented by this tragedy. Determined efforts by others, including staff at the DIT and DFA provided support to enable a robust and effective response to the impacts from the wildfires.

For days and weeks while the Carr Fire burned, up to 75% of the Redding office staff had to evacuate their homes. Those who were out of harm's way opened their doors to provide housing to family, friends, and strangers. Nonetheless, the office provided continuity of public service and ensured that all essential work activities were covered. They determined the operational status of essential and high-risk facilities such as drinking water treatment plants and wastewater treatment plants, and high environmental risk facilities like Iron Mountain Mine. They coordinated with other State, Federal and Local entities and developed a response strategy to assess and prioritize water quality threats to be addressed. Over 1,000 site features were inspected and evaluated, and a geographic information system was developed to help identify areas requiring post-fire treatments to reduce impacts to sensitive waterbodies and protect the beneficial uses of those waterbodies.

DFA staff assisted in pursuing State and Federal funds to implement treatments in priority watersheds. Over \$9 million was secured to fund work including sediment and erosion control, culvert replacements, water quality monitoring, and effectiveness assessment. 1,640 acres are being treated in the Carr Fire area, and 62 treatments over approximately 20 miles of eroding roadway in the Camp Fire area are being stabilized to prevent sediment runoff impacts. Contracts executed for this work run through 2021.

The excellent work performed by these staff is especially notable due to the difficult circumstances under which they worked, balancing their own needs with those of the public. Despite the thousands of hours diverted to handling the wildfire emergencies, most of the performance targets that had previously been set were still met. The knowledge gained through the strategy, planning, and implementation efforts is being captured and made available to others for future emergencies. This sustained superior accomplishment award is intended to commend and highlight the efforts of staff and extend thanks and appreciation for their extraordinary efforts.

SUPERIOR ACCOMPLISHMENT AWARDS

Executive Officer presented the Superior Accomplishment Award to the following employees:

Employee: Omar Mostafa
Unit: Compliance/Enforcement Unit
Location: Fresno Office
Title: Water Resources Control Engineer
Supervisor: Russell Walls

Omar is a Water Resource Control Engineer in the Central Valley Water Board's Fresno Office's Compliance/Enforcement Unit. Omar is being recognized for his outstanding work performance on complaint reviews/responses, sanitary sewer overflow (SSO) oversight, and Non15 site regulation. Omar joined the Central Valley Water Board in March 2016, bringing with him several years' experience with the Division of Drinking Water and the City of Clovis. Since joining the Compliance/Enforcement Unit, Omar has successfully applied his past experience along with excellent technical and communication skills to effectively regulate and bring into compliance both municipal and industrial wastewater treatment facilities.

Omar provides regulatory oversight for Non15 regulated sites, including SSOs, in Kern, Tulare, Kings, Fresno, Madera, Merced, Mariposa, and Tuolumne counties. For the last six months Omar has been heavily involved with a pistachio processing facility that has Non15 waste discharge requirements. There have been multiple and ongoing odor complaints against the facility. Omar has inspected the site several times to document the presence or absence of odors and has generated enforcement letters to the site. Omar has attended several community meetings regarding the odors at the site as well as the Tulare County Environmental Justice Task Force concerning the site. In addition, he has assisted in briefing the Office of Enforcement and CalEPA concerning the site.

Omar has done an excellent job in all aspects of regulating this site which has resulted in the facility making significant and ongoing improvements regarding odor generation.

Omar has become a valuable asset to the Compliance/Enforcement Unit. In addition to his excellent attitude and professional demeanor, Omar willingly and enthusiastically works on any project he is given. He has shown himself to be a quick learner becoming very knowledgeable in the CIWQS database, Non15 program, and SSO program. His investigations and reviews are thorough and complete. His draft documents require minimal editing and his technical knowledge is excellent. Omar carries with him a level of professionalism and dedication that well represents the Central Valley Water Board.

Employee: Eric Rapport
Unit: Compliance/Enforcement Unit
Location: Redding Office
Title: Water Senior Engineering Geologist Specialist
Supervisor: Bryan Smith

Eric Rapport has been selected to receive this Superior Accomplishment Award for his contributions to the Redding office, the Central Valley region, and across the State Water Board and other regional boards. Eric's technical and leadership contributions have benefited all. Eric has worked in staff and senior specialist roles as an Engineering Geologist in the Redding office since 2000. Most recently he has led the Region's implementation of State Water Board's Onsite Waste Treatment Systems (OWTS) Policy. This work involved tracking, assisting, and reviewing new plans and ordinances developed by over 30 environmental health departments across the Region. Seeing the need for guidance and consistency, Eric worked with the California Conference of Directors of Environmental Health (CCDEH) to develop templates, checklists, and other resources to assist both the development and review of required plans. As Eric's hard work kept the Region ahead of the curve with respect to the rest of the state, these tools and communications channels were made available to benefit others still working through the process. The significant amount of Board work involved with this effort required assistance from WDRs program staff in our three offices, with Eric providing training and assistance as needed. Eric is now planning for significant future OWTS Policy deliverables by developing guidance, checklists, and resource estimates, with the goal of ensuring the program is successful and results in prioritized attention to identified water quality problems.

Beyond his work on the OWTS Policy, Eric has a passion for mentoring others, and assisting to provide rigorous, science- based analysis of challenging water quality protection cases. Numerous groundwater investigations, cleanups, and other actions have benefitted from his involvement.

In his 20 years with the Water Boards, Eric has been highly reliable, and has excelled at completing difficult case work, while also providing outsized contributions to the Board. We are happy to provide this recognition of his hard work and dedication.

Employees: Janelle Brown (Associate Governmental Program Specialist);
Kari Holmes (Senior Water Resources Control Engineer)
Holly Martin (IT Specialist I)
Keri Yee (Associate Governmental Program Analyst)
Michelle Snapp (Water Resources Control Engineer)
Kristine Walker (IT Associate)

Location: Sacramento Office

Janelle, Kari, Kristine, Michelle, Keri, and Holly, also known as the "Americans with Disability Act (ADA) compliance posse" have worked tirelessly to help our agency comply with accessibility requirements. This has involved many detailed tasks such as going through long and tedious documents multiple times to find errors, developing templates, and eventually assembling documents into a format that can be posted on the internet. They have spent hours studying the ADA regulations and learning to use the software tools to develop ADA compliant documents. They have become a valuable resource for our staff by providing technical support and guidance on meeting the ADA requirements.

The ADA Compliance Posse's ongoing work is critical since the Board's main business is to develop documents, orders, permits, plans, enforcement documents, and policies that require protection of water quality and many of these documents need to be circulated for public review and posted to the internet. Essentially, without their efforts, many of our critical water quality protection programs would be unable to move forward in an expeditious manner.

This team can be found much of the time huddled around a computer ostensibly working on ADA compliance, but I have been afraid to ask about the details. They have positive outlooks and are willing to share a smile even under the tight timelines and often frayed nerves that come with implementing new requirements. This group's technical proficiency, highly professional manner, and attention to detail have established them as leaders in helping the Board comply with this important law while enforcing its mission to protect water quality. I'm proud to give this award to Holly, Kari, Michelle, Kristine, Keri, and Janelle.

EMPLOYEE RECOGNITION AWARDS OCTOBER 2019 THROUGH JANUARY 2020

SACRAMENTO OFFICE

Employees: Bob Ditto, Phil Carter, and Ben Wangberg
Unit: Compliance and Outreach
Location: Sacramento Office
Title: Sr. ES, ES, and Sci Aid
Supervisor: Sue McConnell

Bob Ditto, Phil Carter and Ben Wangberg have been instrumental in implementing the drinking water well monitoring and notification effort under the irrigated lands program.

Bob is a senior environmental scientist, Phil is an environmental scientist, and Ben is a scientific aid.

The irrigated lands program requires every grower to monitor drinking water wells, provide the data to GeoTracker, and notify users if the well water exceeds standards for nitrate. This is the first-time growers have been required to conduct farm water quality monitoring of wells. Not to mention, there are thousands of growers, and many are not aware of GeoTracker.

Bob, Phil and Ben have worked tirelessly to get this new requirement rolled out to growers. This has involved close coordination with State Board GeoTracker staff to streamline how data can be uploaded by laboratories, templates for growers, and coordination with DDW to provide simple and effective information regarding potential health effects of drinking water containing nitrate.

The team's work on this important program is ensuring this board is protecting public health, which is of utmost priority for this agency. I am proud to work with this team and am happy to be giving them this award.

Employee: Alice Lopes
Unit: Nonpoint Source Planning and Assessment
Location: Sacramento Office
Title: Scientific Aid
Supervisor: Jennifer LaBay

Alice is receiving this award for her work in the Nonpoint Source Planning and Assessment Unit. Alice joined the NPS Unit in March 2019 as a Scientific Aid. Her main duties are associated with assisting on the Harmful Algal Bloom project and the Integrated Report. Shortly after starting, Alice volunteered to help cover SWAMP field runs due to low staffing in the SWAMP Unit. Alice is a fast learner and is always careful to follow SWAMP standard operating procedures. Alice was often out several days a week during the summer collecting E. coli samples in the Lower American River and the Stockton area. Upon her return to the office, Alice quickly processed the water samples in our laboratory to ensure that the results were available to the public the next day. SWAMP would not have been able to fulfill all its planned monitoring activities this year without Alice's help.

In addition to assisting the SWAMP Unit, Alice worked diligently to compile all the Region 5 HAB data into a single spreadsheet database so it could be used for data visualization at the December Board meeting. This involved pulling data and information from numerous emails, PDF and Word documents and entering it into an Excel spreadsheet. Without Alice's attention to detail and thoroughness, we never would have been able to map HAB locations in Region 5 for the Board.

For this and so much more, Alice is very deserving of this Employee Recognition Award.

Employee: Ashley Peters
Unit: Irrigated Lands Regulatory Program
Location: Sacramento Office
Title: Water Resources Control Engineer
Supervisor: Susan Fregien

Ashley Peters is being recognized for her extraordinary effort that led to revising the Grassland Bypass Project Order this past December. Ashley's steady, clear-minded and flexible approach to this very complex task was crucial in adoption of the Order's changes. She kept abreast of numerous significant new developments while reviewing many technical and scientific documents related to this project which has been in place for more than 20 years. As always, her strong analytical and organizational skills served her well.

Moreover, a variety of ardent stakeholder interests were involved, including environmental justice, aquatic life protection, drinking water, and water purveyors. Ashley responded to the stakeholder concerns in a thoughtful and balanced way.

Finally, Ashley was instrumental in helping other staff stay apprised of the project's status over the many months of developing the revised Order. For these reasons and many more, Ashley is extremely deserving of the Employee Recognition Award!

Employee: Jennifer Fuller
Unit: Mercury TMDL Unit
Location: Sacramento Office
Title: Environmental Scientist
Supervisor: Meredith Howard

Jennie Fuller is a highly valued member of the Planning Section and she is being recognized for her efforts to lead the Delta Methylmercury Total Maximum Daily Loads (TMDL) and other Mercury TMDL unit tasks. Jennie is a hard-working team member who has greatly exceeded expectations by leading the Delta Methylmercury project, despite a vacant Senior Supervisor position in the Mercury TMDL unit for several months. Jennie takes on every project she is assigned with enthusiasm, initiative and a great attention to detail. The Delta Methylmercury TMDL is complex and has many components. Jennie diligently oversees all of these elements and takes initiative to pull the TMDL team together to discuss complex technical issues. Jennie has also been working closely with the 401-certification staff to develop a more efficient process for providing comments on mercury related certifications. She shows up every day with a smile even as plans are evolving and priorities are shifting.

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

REDDING OFFICE

Employee: Dan Warner
Unit: Storm Water / Water Quality Certification
Location: Redding Office
Title: Water Resource Control Engineer
Supervisor: Lynn Coster

Dan Warner is a Water Resource Control Engineer working in the Water Quality Certification Unit in the Central Valley Water Board's Redding office. Dan started working for the North Coast Water Board in the Groundwater Unit in 1999. In 2006, he accepted a position in the NPDES Unit in the Central Valley Water Board's Redding office, and his duties quickly expanded after the first year to include enforcement. In 2014, Dan moved to a position in the office's Water Quality Certification Unit, where he is a valued staff member and provides programmatic Water Quality Certification assistance to the Rancho Cordova and Fresno offices, in addition to his work in the Redding office.

Dan is being recognized for his leadership and work in creating American Disabilities Act (ADA) compliant documents for the Board. In June of 2019, Dan volunteered to create an ADA-compliant Clean Water Act Section 401 Water Quality Certification and Order template for the Central Valley Region. Dan attended a couple of training workshops in the Rancho Cordova office, but a majority of his knowledge was self-taught. He succeeded in completing the development of an ADA-compliant template by the end of August, which was an onerous task considering the template is over 75 pages long and includes a number of complicated tables. State Water Resources Control Board unsuccessfully attempted to develop a statewide template, and ultimately used the template Dan had created, recognizing the Central Valley Region for their contribution.

Dan has graciously offered to assist other staff in the Redding and Rancho Cordova offices to produce ADA-compliant documents and has proven himself to be an excellent resource and teacher. Dan is a team member, always willing to help others, and his positive attitude and contributions are greatly appreciated.

Employee: Kate Sjoberg
Unit: NPDES
Location: Redding Office
Title: Engineering Geologist
Supervisor: Jeremy Pagan

Kate Sjoberg is an Engineering Geologist working in the NPDES Unit of the Redding office of the Central Valley Water Board. Kate graduated from U.C. Davis with a B.S. in Geology and has been working for the Central Valley Water Board since September 2018. Kate is a valued member of the NPDES Unit and provides helpful insight and geological perspective to our NPDES-permitted facilities.

Kate's NPDES permit workload consists of a unique mix of municipal wastewater treatment plants and collection systems, sawmill/cogeneration plants, and abandoned and active mines. Many of her sites, though NPDES-permitted for surface water discharge, present unique groundwater challenges and issues that fit well into her geological expertise. Kate has strong organizational skills and ambition and in her first year has done an excellent job bringing her caseload into more complete standing. In addition to her daily compliance and enforcement duties of reviewing Electronic Self-Monitoring Reports (eSMRs), issuing Notices of Violation (NOVs), reviewing technical reports, and providing assistance to dischargers, Kate is also doing a tremendous job handling her first discretionary enforcement case for a large sewer spill. Finally, Kate just finished her first NPDES permit renewal for the City of Anderson's WWTP which was adopted in October 2019. This permit renewal included some challenging mixing zone and dilution concepts as well as water quality data and pesticide issues. In her first year here at the Central Valley Water Board, Kate has made significant contributions to the NPDES Unit.

Kate is an excellent team member who is hard working, kind, dependable, and driven. She excels at organizing her time and workload so that she can be extremely efficient and consistently meets project milestones and completion goals. The NPDES Unit greatly benefits from Kate's hardworking nature and her easygoing, professional demeanor. Kate is well-deserving of this recognition and her contributions to the NPDES Unit and the Redding office are greatly appreciated.

Employee: Michael Collins
Unit: NPDES
Location: Redding Office
Title: Water Resource Control Engineer
Supervisor: Jeremy Pagan

Michael Collins is a Water Resource Control Engineer working in the NPDES Unit of the Redding office of the Central Valley Water Board. Michael graduated from Humboldt State University with a B.S. in Environmental Engineering and has been working for the Central Valley Water Board since March 2018. Michael is an outstanding and dependable member of the NPDES Unit and brings a strong work ethic, critical thinking, and an excellent attitude to the team.

Michael manages NPDES permits for water and wastewater treatment plants, cogeneration and sawmill plants, as well as a suite of dischargers enrolled under the Central Valley Region's Limited Threat General Order. Also, Michael oversees municipal wastewater collection systems, recycled water users, discharges from drinking water systems, and the largest industrial pretreatment program regulated by the Redding office. Michael is a dependable team player and does a great job allocating his time to the issues with highest priority.

Michael continues to improve in his communication skills as both a writer and meeting facilitator and has developed excellent rapport with the facilities he regulates. Michael recently finished his first NPDES permit renewal for a local cogeneration facility which

was adopted in October 2019. This permit renewal had some unique challenges because it was for an industrial facility and the facility was making some significant changes to their process wastewater flow regime. Michael did a great job fielding input from the discharger and through multiple drafts and revisions of the permit ultimately brought an uncontested NPDES permit before the board for adoption. In Michael's first 18 months here at the Central Valley Water Board, he has come up-to-speed very quickly and contributed to the NPDES Unit in numerous ways.

Michael is a great engineer who is eager to learn and contribute, a team player, and extremely dependable. Michael also brings a great sense of humor to the group and has been instrumental in helping to train up less experienced staff. Michael continues to contribute to the success of the NPDES Unit and the Redding office as a whole and is much deserving of this recognition; his efforts are noticed and greatly appreciated.

FRESNO OFFICE

Employee: Ernesto Garcia
Unit: Waste Discharge Requirements/Non-15
Location: Fresno Office
Title: Scientific Aid
Supervisor: Alexander S. Mushegan

Ernesto is receiving this award for his work in the WDR Unit as well as in the Storm Water Unit. Ernesto started working for the Central Valley Water Board in October 2018. In little over a year, Ernesto has become an integral part of the WDR/Non-15 Permitting Unit. From day one he has shown his willingness to learn and grow and a passion for his work. While continuing to pursue a degree in civil engineering at Fresno State, he has taken it upon himself to learn the intricacies of the WDR Program. This has allowed him to take on more challenging responsibilities in the WDR Program.

He has helped spearhead the effort to get old permittees (specifically small domestic wastewater treatment facilities) enrolled under the Small Domestic General Order. This involves making "first contact" with dischargers who have often not heard from the Central Valley Water Board in years and having the difficult/awkward conversation with dischargers on why their permit is so old and needs to be updated. This effort usually involves repeated calls to check in on the status of the application as well as answering any questions the discharger may have. Because of Ernesto's willingness to learn, he has even helped technical staff review technical reports and draft memorandums and notices of applicability. Other work Ernesto has completed in his short time at the Central Valley Water Board include preparing an administrative record for a petitioned permit, developing and updating a spreadsheet for technical staff to keep track of projects, assisting staff in site inspections, learning the complexities of preparing ADA documents, and assisting staff with various projects in the Storm Water Unit.

In sum, Ernesto is a pleasure to work with. His attitude and willingness to get the job done and learn allows him to be a great resource for technical staff. For these reasons and more, Ernesto Garcia is well deserving of this award.

Employee: Omar Erekat
Unit: Oil Field Unit 1
Location: Fresno Office
Title: Water Resource Control Engineer
Supervisor: Ron Holcomb

Omar is a Water Resource Control Engineer in the Central Valley Water Board's Fresno Office as part of the Oilfield Waste Discharge to Land Unit. Omar's duties include inspecting petroleum production facilities, reviewing and analyzing technical documents submitted by petroleum producers, and preparing orders and other documents for enforcement actions against dischargers that have violated the Water Code or an order adopted by the Central Valley Water Board or the State Water Board.

During the past few months, Omar has taken on tasks that are not normally part of his assigned duties. Omar conducts most of the field inspections for the Unit, including responding to spills and incidents reported to the Governor's Office of Emergency Services. A series of incidents caused by crude oil flowing to the surface in response to steam pressure caught the attention of the media and the Governor's office. Omar conducted field inspections, prepared Notices of Violation, and reviewed work plans for assessing the impacts of the surface expressions on the environment.

As a licensed Professional Engineer, Omar was tasked with reviewing a construction report for embankments constructed to maintain reservoirs of wastewater that would be used for irrigation. The situation was unusual in that the Discharger had constructed the embankments without approved plans, so Omar had to determine whether the embankments were properly constructed and that appropriate quality assurance procedures had been employed based on his review of the final report. Additionally, the report review needed to be completed in a relatively short time.

Omar also tracked down five unresponsive dischargers who had outstanding violations of cleanup and abatement orders. Omar was able to discover previously unknown contact information that made it possible to serve letters warning of potential assessment of Civil Liability Complaints against two of them and start other enforcement actions against the other three.

Omar approached these unusual situations with enthusiasm and skill and completed these tasks in a timely manner. Omar's professionalism, work ethic, and attitude make him a valuable asset to the Oilfield Waste Discharge to Land Unit and to the Central Valley Water Board.

Employee: Lewis R. Lummen
Unit: Confined Animals Unit
Location: Fresno Office
Title: Engineering Geologist
Supervisor: Dale E. Essary

Lewis is always professional in dealing with consultants and responsible parties for his projects. He has a good attitude and focus on the 100+ projects he is assigned to and has always been a productive and professional employee.

During the month of December 2019 Lewis completed four (4) compliance inspections, completed seven (7) Information Reviews, and drafted three (3) Notices of Applicability to facilities applying for coverage under the new Bovine General Order. He also assisted in the issuance of a mass-mail of courtesy notices to enrolled bovine feedlots for upcoming compliance milestones under the Bovine Order. Lewis has also been coordinating with the Kings County Planning and Health departments regarding emerging goat and sheep dairies and their operational and permitting issues (e.g., mortality management, CEQA compliance). He is also tracking the progress at dairies affected by the High-Speed Rail Authority's eminent domain process (e.g., cropland/ponds taken out of service).

Lewis is always willing to take on any extra assignment, which he completes in a timely manner. He has been a valuable asset to the Fresno office, and is most deserving of the 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 Water Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

**Enforcement Table 1 – Central Valley Enforcement Orders
(1 OCTOBER 2019 through 31 DECEMBER 2019)**

Action Date	Agency	County	Notes
10/4/19	A & A Concrete Supply Yuba City	Sutter	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
7/16/19	Mountain House CSD	San Joaquin	EPL R5-2019-0513 issued in amount of \$138,000 which represent the sum of MMPs for serious and nonserious effluent violations from 1 July 2018 to 31 January 2019.
10/4/19	Sysco Food Services	Sutter	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
10/18/19	Roy E Lay Trucking	Yolo	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
10/18/19	Sierra Pac Industries Keystone	Tuolumne	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
10/21/19	Roest Family Dairy	Stanislaus County	On 6 September 2019, the Discharger accepted the offer to settle ACL R5-2018-0520 for alleged violations of the WDRs. On 21 October 2019, it was executed by the Central Valley Water Board Executive Officer.
10/25/19	Cemex	Yuba	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.

Action Date	Agency	County	Notes
10/25/19	Livingstons Concrete	Yuba	13267 Order issued for failure to collect and analyze the required minimum number of storm water samples for the last several reporting years in accordance with the Industrial General Permit requirements.
11/1/19	Nevada CSD No 1	Nevada County	EPL R5-2019-0531 issued in the amount of \$12,000 which represents the sum of MMPs for serious and non-serious effluent violations from 1 June 2018 to 30 June 2019.
11/4/19	William Garcia Property #1	Yuba	4 November 2019; Mr. William Garcia; Yuba County; 13267 Order was issued for preparation of a Work Plan to mitigate discharge of waste and threat of discharge of waste to waters of the state from cannabis cultivation or associated activities
11/5/19	Carlos Lourenco Dairy	Merced	On 11 March 2019, the Assistant Executive Officer issued ACLC to Carlos C. Lourenco for alleged violations of the WDRs. After confidential settlement negotiations, the Discharger agreed to settle this matter and by ACLO R5-2019-0505 in the amount of \$75,000 was adopted.
11/5/19	William and Stephanie Schaufler Property	Nevada	On 2 August 2019, Board staff inspected a cannabis cultivation site and identified a cultivation area creating a threat of sediment discharge. Therefore, a 13267 Order was issued for unauthorized discharge and requested the Discharger to submit a technical report to resolve the potential water quality issues at the site.
11/7/19	City of Davis	Yolo County	EPL R5-2019-0532 issued in the amount of \$42,000 which represents the sum of MMPs for serious and non-serious effluent violations from 1 July 2017 to 31 July 2019.
11/8/19	Soares, Germano & Jacinta	Stanislaus County	EPL R5-2019-0540 issued in the amount of \$102,487 in order to resolve the alleged violations of the WDRs.
11/8/19	Mountain House CSD	San Joaquin	EPL R5-2019-0535 issued in the amount of \$129,000 which represents the sum of MMPs for serious and non-serious effluent

Action Date	Agency	County	Notes
			violations from 1 February 2019 to 30 June 2019.
11/8/19	Silva Brothers Dairy #1	San Joaquin	EPL R5-2019-0539 issued in the amount of \$80,044 in order to resolve the alleged violations of the WDRs.
11/8/19	City of Roseville	Placer	EPL R5-2019-0537 issued in the amount of \$6,000 which represents the sum of MMPs for serious and non-serious effluent violations from 1 July 2018 to 31 July 2019.
11/8/19	CDCR	San Joaquin	EPL R5-2019-0533 issued in the amount of \$12,000 which represents the sum of MMPs for serious and non-serious effluent violations from 1 July 2018 to 31 July 2019.
11/8/19	CA Dep. of Park and Rec	Nevada County	EPL R5-2019-0538 issued in the amount of \$3,000 which represents the sum of MMPs for serious and non-serious effluent violations from 1 July 2013 to 30 June 2019.
11/12/19	DeLallo Italian Foods Inc	Butte	13267 Order was issued for an investigation of soil, groundwater, wastewater and/or wastewater conveyance system whether chlorinated solvents have been discharged or are continuing to be discharged from the Facility.
11/13/19	Timberwood Estates	Nevada County	ACL Order R5-2019-0525 in the amount of \$160,875 was issued to Hilbers New Home Communities (Discharger) on 13 November 2019 for violations of the Construction General Storm Water Permit at the Timberwood Estates construction project in Grass Valley. The Discharger failed to implement storm water Best Management Practices that met requirements of the permit which resulted in turbid discharges from the site to a tributary of Wolf Creek.

Action Date	Agency	County	Notes
11/18/19	Valtinjos LLC Property	Siskiyou	On 2 October 2019, Board staff inspected a cannabis cultivation site and identified a cultivation area creating a threat of sediment discharge. Therefore, 13267 Order was issued for unauthorized discharge and requested the Discharger to submit a technical report to resolve the potential water quality issues at the site.
11/28/19	City Redding	Shasta County	EPL R5-2019-0527 issued in the amount of \$12,000 which represents the sum of MMPs for serious and non-serious effluent violations from 19 July 2013 to 1 July 2019.
12/6/19	Crossings Phase 2 Rough Grading	Placer	ACL Order R5-2019-0522 in the amount of \$170,976 was issued to Palos Verdes Properties Inc. (Discharger) on 6 December 2019 for violations of the Construction General Storm Water Permit at the Crossings Phase 2 Rough Grading project in Placerville. The Discharger failed to enroll the project under the correct Risk Level which led to inadequate BMPs being used. In addition, the Discharger attempted to hold turbid storm water on-site in basins, which ran out of capacity during the winter of 2018-2019, resulting the Discharger pumping turbid water into Mound Springs Creek.
12/10/19	Benjamin and Amanda Rorie Property	Yuba	13267 Order was issued for an investigation of unlawful waste discharges to waters of the state from associated cannabis cultivation activities documented on site. Soil spoil piles, defunct automobiles and fill in a watercourse were documented on site which has caused unlawful discharges of waste into waters of the state.
12/10/19	Wyman and Andrea Osborn Property	Nevada	13267 Order was issued for an investigation of soil, groundwater, wastewater and/or wastewater conveyance system. Parcel was used for cannabis cultivation and associated activities, which has resulted in unlawful discharges of

Action Date	Agency	County	Notes
			waste and threatened discharges of waste into waters of the state in violation of the Water Code.
12/17/19	Wheelabrator Shasta Energy Co.	Shasta County	EPL R5-2019-0542 issued in the amount of \$3,000 which represents the sum of MMPs for a serious effluent violation which occurred in January 2016.
12/20/19	City of Yuba City	Sutter	ACL R5-2019-0524 in the amount of \$9,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
12/24/19	City of Manteca	San Joaquin	ACL R5-2019-0534 in the amount of \$3,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
12/24/19	Linda County	Yuba	ACL R5-2019-0529 in the amount of \$6,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon execution of the offer by the Central Valley Water Board Executive Officer.
12/31/19	Trinity Pines Catholic Center	Placer	ACL Order R5-2019-0526 in the amount of \$56,420 was issued to the Roman Catholic Bishop of Sacramento on 31 December 2019 for violations of the Construction General Storm Water Permit at the Trinity Pines Catholic Center project in Colfax. The Discharger's contractor failed to include required storm water BMPs in the sited Storm Water Pollution Prevention Plan which led to virtually no BMPs being installed during November and December 2018 storm events resulting in turbid discharges from the site.

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 October 2019 through 31 December 2019. From a statewide perspective, Region 5 is responsible for 27% of the enforcement actions tracked in CIWQS during this period including 92% of all 13267 Orders, 42% of all ACLs, 36% of all NNC, and 51% of all NOV.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS
(1 OCTOBER 2019 through 31 DECEMBER 2019)**

Region	13267	NNC	ACL	CAO	EPL	NOV	NTC	SEL	TSO	VER	Total
1	0	0	0	0	0	24	0	0	0	5	29
2	1	0	0	0	1	2	0	0	0	20	24
3	0	5	1	0	1	18	4	5	1	11	46
4	0	165	5	1	20	31	18	0	0	150	390
5F	0	0	0	0	0	15	0	2	0	8	25
5R	6	0	0	0	2	33	0	0	0	3	44
5S	6	211	8	0	8	47	0	8	3	35	326
Total R5	12	211	8	0	10	95	0	10	3	46	395
6T	0	0	0	0	0	0	0	3	0	0	3
6V	0	0	0	0	0	9	0	1	0	6	16
7	0	5	0	0	0	5	0	0	0	9	19
8	0	199	1	1	5	1	0	14	0	247	468
9	0	0	4	0	0	1	0	14	0	71	90
Total	13	585	19	2	37	186	22	47	4	565	1480

ENFORCEMENT ACTIONS:

Enforcement Actions and Abbreviations:

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

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

Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker (1 OCTOBER 2019 through 31 DECEMBER 2019)

Office	VER	NOV	13267 Order	13260 Letters	Letter Notice	NTC	Warning Letter	Total
5F	1	12	1	0	1	1	0	16
5R	1	2	1	0	0	0	1	5
5S	6	6	2	0	1	2	0	17
Total	8	20	4	0	2	3	1	38

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

Enforcement Table 4 -Region 5 ILRP Enforcement Actions (1 OCTOBER 2019 through 31 DECEMBER 2019)

Office	NOVs for Failure to Respond to 13260 Directives	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Totals
Fresno	0	0	0
Sacramento	501	62	9
Total	510	62	9

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 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 October 2019 through 31 December 2019, there were no reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

For the reporting period between 1 October 2019 through 31 December 2019, there were 315 total SSO spills: 23 Category 1, 9 Category 2, and 283 Category 3 spills (see Figure 1 below).

SSO SUMMARY DATA

Total Sanitary Sewer Overflow
1 October 2019 through 31 December 2019

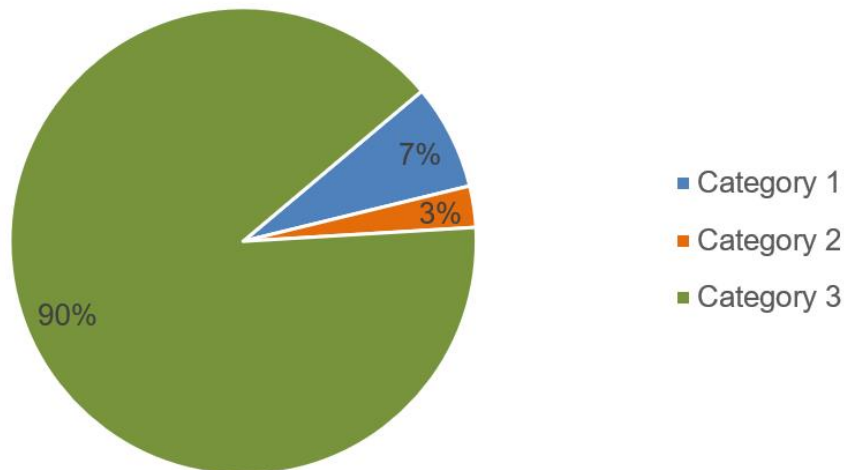


Figure 1: Central Valley Sanitary Sewer Overflow Summary (1 October 2019 through 31 December 2019)

ADDITIONAL INFORMATION ON SSOS

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

(https://www.waterboards.ca.gov/water_issues/programs/sso/index.html).

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

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

Central Valley Water Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 October 2019 through 31 December 2019, Central Valley Water Board staff received a total of **44 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, 40 (91%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for 4 complaints remain ongoing.

ADMINISTRATIVE CIVIL LIABILITY

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

COMPLIANCE PROJECT (CP)

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

SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

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

ENHANCED COMPLIANCE ACTION (ECA)

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

For the fiscal year period between 1 July 2019 through 31 December 2019, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$3,513,895 in monetary penalties were issued during this period, of which \$147,000 was allocated for CPs and \$120,000 was allocated for SEPs (see Figure 2 below).

Monetary Penalties (1 July 2019 - 31 December 2019)

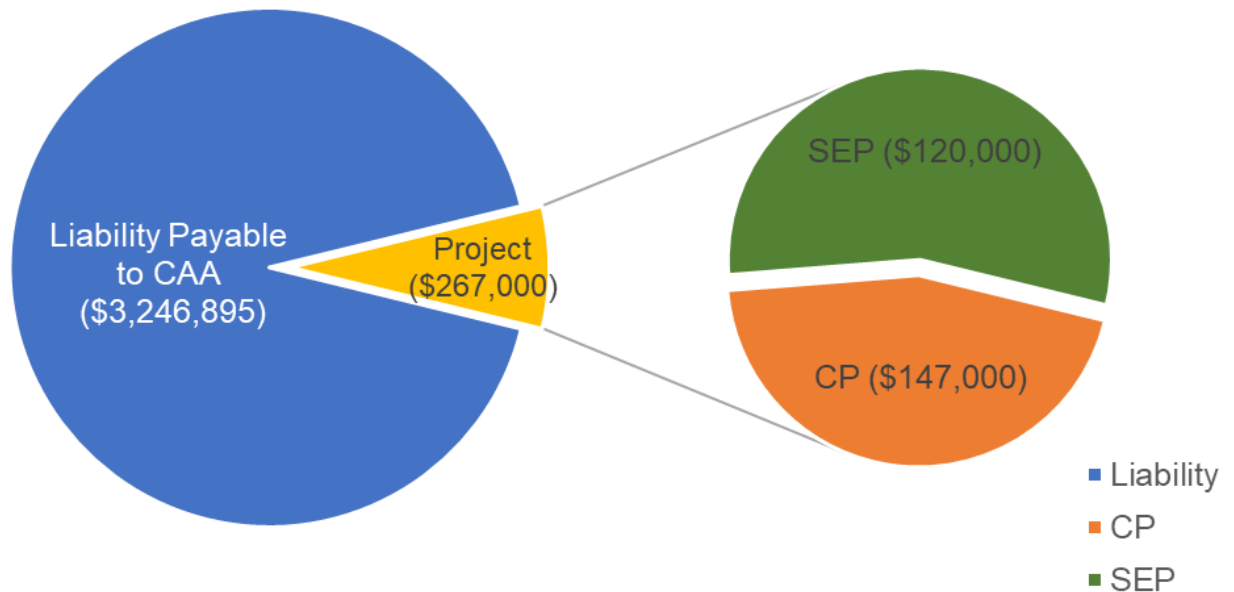


Figure 2: Monetary Penalties issued by the Central Valley Water Board (1 July 2019 through 31 December 2019)

PERFORMANCE TARGETS

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

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

(https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf) and was used to develop the FY 2019-2020 performance targets.

Below is the Central Valley Water Board's Performance Measurement Summary for the 2019-2020 fiscal year.

**ENFORCEMENT TABLES 5a-5e – REGION 5 INSPECTION PERFORMANCE
MEASUREMENT SUMMARY (1 JULY 2019 THROUGH 31 DECEMBER 2019)**

NPDES Wastewater – Table 5a.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Individual Facilities Inspected	29	10	34%	NA	10
Minor Individual Facilities Inspected	9	3	33%	NA	3
Minor General Enrollees Facilities Inspected	0	0	--	NA	0

Waste Discharge to Land – Wastewater – Table 5b.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	81	62%	NA	94

Land Disposal – Table 5c.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	54	59%	NA	67
All Other Inspections	23	18	91%	NA	21

NPDES Storm Water – Table 5d.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	171	52%	NA	204
Stormwater Industrial Inspections	195	115	61%	NA	118
Stormwater Municipal Inspections	0	10	NA	NA	13

Other Programs – Table 5e.

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	166	121	77%	NA	124
Confined Animal Facility Inspections	275	138	54%	NA	150

ENFORCEMENT TABLES 6a-6d – REGION 5 PERMIT PERFORMANCE MEASUREMENT SUMMARY (1 JULY 2019 THROUGH 31 December 2019)

NPDES Wastewater – Table 6a.

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
Major Individual Permits Issued, Revised, and Renewed	9	3	33%	NA	3

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
Minor Individual Permits Issued, Revised, and Renewed	6	1	16%	NA	1

Waste Discharge to Land – Wastewater – Table 6b.

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	23	52	226%	NA	52

Land Disposal – Table 6c.

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
Landfills Permits Issued, Revised, and Renewed	13	3	13%	NA	3
All Other Permits Issued, Revised, and Renewed	2	0	0%	NA	0

Clean Up – Table 6d.

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/Ori ginal Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	6	6	100%	NA	6
New SCP Sites into Active Remediation	50	17	34%	NA	17
Cleanup Program Sites Closed	60	23	38%	NA	23
New UST Sites into Active Remediation	25	9	36%	NA	9
UST Sites Closed	68	39	57%	NA	57

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

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

The [Review Panel's report](#) assessing the seven control study reports on municipal wastewater and urban stormwater runoff discharges can be viewed here:

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

Overall, the Review Panel found that work plans were generally followed but expressed concerns over scientific rigor, extrapolation of pilot-scale studies to a larger scale and cautioned about drawing regionwide conclusions from the study results.

Central Valley Water Board staff (Staff) drafted the goals and charge for the second Review Panel and an external expert mercury advisory panel (Advisory Panel). The draft charges provide a list of questions to be answered by each panel to aid Staff in evaluating revisions to the DMCP. On 20 December 2019, Staff met with the Delta Science Program Planning Committee to discuss (1) the draft charges, (2) potential

candidates for a modeling expert Review Panel member, and (3) the milestone timelines of each panel. The second Review Panel is scheduled to convene in July 2020 and submit a report with review of the tidal wetland and the open water control study reports in August 2020. The Advisory Panel will convene in late 2020 after Staff have completed draft revisions to the DMCP.

In December 2019, Staff mailed CEQA AB 52 letters to tribes on the Native American Heritage Commission List who requested information regarding projects that may affect tribal cultural resources within the Delta. Staff anticipate planning and hosting CEQA scoping meetings in Summer 2020.

DELTA MERCURY EXPOSURE REDUCTION PROGRAM

The Delta Mercury Exposure Reduction Program (MERP) is a collaborative effort of the Central Valley Water Board, the California Department of Water Resources (DWR), the Delta Conservancy, and the Office of Environmental Health Hazard Assessment (OEHHA). It is supported by funds from the Cleanup and Abatement Account and Delta dischargers subject to the Delta Mercury Control Program. The goal of the Delta MERP is to protect public health by reducing exposure to methylmercury in fish caught in the Delta.

Central Valley Water Board and Delta Conservancy staff continued coordination efforts with local entities and other state agencies and continued to post fish consumption advisory sign posting at Delta sites. Staff posted Delta fish consumption advisory signs on the Sacramento River in December 2019 and January 2020.

Staff received the final report from a third-party evaluator to assess sign posting effectiveness. The report is currently being reviewed by the Delta Conservancy.

Staff are coordinating with DWR and OEHHA to finalize a low-literacy brochure and infographic to improve consumption advisory interpretation.

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

On 10 December 2019, the Delta RMP Technical Advisory Committee (TAC) met. Scientists from the USGS Organic Chemistry Research Laboratory (OCRL) and the Aquatic Health Program Laboratory at UC Davis presented the provisional results of water year 2019 monitoring for current use pesticides and aquatic toxicity. The TAC discussed the second year of Delta RMP mercury monitoring results from August 2017 to June 2018 on mercury in water, sediment, and fish tissue in the Delta. The results have been summarized in a draft report that is currently being revised based on feedback and comments from the mercury subcommittee.

On 19 December 2019, the Delta RMP Pesticides subcommittee met and discussed results from recent monitoring, potential causes of toxicity in recent water sample tests, and the process for selecting a new toxicity laboratory. The subcommittee discussed adding a new assessment question related to pesticides and human health risk to the

list of program management and assessment questions and potential study ideas for the next fiscal year of monitoring.

The Delta RMP Steering Committee (SC) met on 10 January 2020 and agenda items included a presentation by the Delta Science Program on the Delta Science Plan and Delta Plan Performance measures to track goals. The SC discussed how the RMP studies could be used to implement the Delta Science Plan. The SC also discussed two monitoring pre-proposals to provide feedback on priority nutrients studies.

The Delta RMP Nutrients Subcommittee met on 15 January 2020 to discuss monitoring proposals for the next fiscal year. The proposals are described in the Nutrients Research Plan section.

DELTA NUTRIENT RESEARCH PLAN

The Delta Nutrient Research Plan (accepted August 2018) identifies information gaps for evaluating water quality objectives for nutrients in the Delta. Efforts are now focused on filling the gaps through special studies, monitoring, data evaluation, and modeling.

STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES

San Francisco Estuary Institute's (SFEI) modeling team continues the development and testing of a hydrodynamic and biogeochemical model for the Delta and Suisun Bay. The modeling team has completed validation of hydrodynamics for water year 2016 (of interest due to diatom blooms that occurred in the north and central Delta). They have also developed model directions and a database to be able to model the hydrodynamics for other years in the period 2000-present with minimal effort. Hydrodynamic model outputs include discharge, salinity, and temperature. SFEI's modeling team continue to improve the biogeochemical model component for predicting nutrients and phytoplankton.

Board Staff partnered with SFEI, Robertson-Bryan Inc, and Bend Genetics to re-submit a proposal for Proposition 1 funding for cyanobacteria toxin monitoring in the Delta. A grant agreement for the original Proposition 1 award that was granted to the Central Valley Water Board was unable to be finalized between the State Water Board and California Department of Fish and Wildlife (the granting agency).

The Delta RMP's Nutrient Subcommittee continued to meet jointly with the Delta Nutrient Research Plan Stakeholder and Technical Advisory Group. The subcommittee met on 14 November 2019 and again on 15 January 2020 to discuss a four-year study plan for Delta RMP funding and potential Supplemental Environmental Projects (SEP). The group also received a demonstration by USGS of on-line data visualization tools, which allow the user to create maps and graphics of nutrient and phytoplankton data collected with boat-mounted instruments in 2018.

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 30 October 2019 through 16 January 2020, there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary.

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

These parties are not currently part of the voluntary funding agreement for the aeration facility however, they contribute to reduce flows through the DWSC, a factor identified as contributing to the dissolved oxygen impairment. On 3 December 2019 and 22 January 2020, staff met with a representative of the Stockton East Water District to discuss the TMDL and actions to mitigate potential impacts on net oxygen demand in the DWSC. Staff have also been corresponding with the other parties.

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

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.html)

OLD AND MIDDLE RIVERS DISSOLVED OXYGEN IMPAIRMENT

A draft White Paper detailing the extent of the dissolved oxygen impairment in Old and Middle Rivers along with contributing factors to the impairment and possible Board actions has been compiled by Staff. The Department of Water Resources (DWR) is scheduled to submit a report detailing the temporary barriers' effects on dissolved oxygen in Old and Middle Rivers to the Central Valley Water Board in January 2020 to meet a requirement of the Board's 401 certification. Once staff have reviewed the DWR report, the results and findings will be incorporated into the white paper and circulated for interagency and public comment. The contents of the white paper will be presented to the Board as an informational item at a future Board meeting in 2020.

TMDL/BASIN PLANNING

PESTICIDE BASIN PLANNING/TMDLS

CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL

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

Completion of baseline monitoring for pyrethroids by municipal stormwater and agricultural dischargers was originally required 2 years from the date of OAL approval, but this completion date has been extended as described below. Baseline monitoring for municipal or domestic wastewater dischargers will be conducted during their effluent characterization monitoring. The conditional prohibition established in the Control Program by the Amendment becomes effective 3 years from the date of OAL approval.

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

Staff worked with the State Water Board's Environmental Lab Accreditation Program (ELAP) and commercial laboratories on the validation and accreditation of analytical methods for analysis of pyrethroids at concentrations low enough to meet the monitoring goals of the program. Validation of these methods and accreditation of multiple commercial laboratories for these methods is expected to be completed in early 2020.

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

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

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html).

DIAZINON AND CHLORPYRIFOS REVIEW

Staff have completed an internal draft report reviewing diazinon and chlorpyrifos concentration data and other related information in the Central Valley Region. Preliminary results show that the improved practices and reduced uses that have followed the Board's control efforts, the Department of Pesticide Regulation's pesticide use regulations, and other regulatory changes, have been effective at reducing diazinon and chlorpyrifos concentrations. Concentrations of these pesticides are nearly always below thresholds of concern. Staff plan on presenting these findings to the Board in 2020, following a stakeholder review of the draft report and finalization of the report.

TRIBAL BENEFICIAL USES DESIGNATION

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

Through the 2018 Triennial Review process, several tribes in the Central Valley Region requested that the Central Valley Water Board designate Tribal Beneficial Uses (TBUs). On 6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 approving the 2018 Triennial Review with TBUs as a priority project.

Subsequent to the Central Valley Water Board identifying TBUs as a priority project, Central Valley Water Board staff initiated a "Tribal Beneficial Uses Working Group" with the other Regions and State Water Board Divisions to facilitate communication on this effort. Central Valley Water Board staff hosted the second TBUs Working Group meeting on 21 November 2019. The next meeting is scheduled for 20 February 2020.

Board staff have also begun to develop a process for designation of TBUs and to solicit input from California Native American Tribes in the Central Valley. Board staff hosted a meeting with Tribes that commented on the 2018 Triennial Review on 1 October 2019 to solicit additional guidance. Board staff are also working with the California Indian

Environmental Alliance (CIEA) to better facilitate discussions on TBUs with Tribes in the Central Valley.

PIT RIVER EVALUATION

The 2018 Triennial Review identified Reassessment of Beneficial Uses and Water Quality Objectives in Specific Reaches of the Pit River as a priority project. To support this effort, the Modoc Resource Conservation District (MRCD) plans to gather available temperature-related water quality data and collect additional data where data gaps exist. Central Valley Water Board staff met with MRCD representatives to discuss the Pit River reassessment project and tour the upper Pit River watershed. Subsequently staff met with the Environmental Director for the Pit River Tribe to provide an update on the meeting with representatives from MRCD and to provide a general timeline of future actions. Central Valley Water Board staff have organized a meeting between MRCD and the Pit River Tribes on 27 January 2020 to discuss development of a workplan on temperature-related water quality data and identification of data gaps.

BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide water quality plan for biostimulatory substances with a program to protect biological integrity 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 objective(s) for biostimulatory substances, numeric translators for biostimulatory substances and conditions (e.g., total nitrogen, total phosphorous, and chlorophyll concentrations), and implementation for point and non-point sources. The Amendment will first focus on wadeable streams, followed by lakes and reservoirs and then lakes and estuaries.

In November, State Water Board staff met with staff from Regional Water Boards to discuss possible components of the Amendment and use of technical reports. State Water Board staff anticipate having a draft Amendment available in 2020.

REGIONAL TEMPERATURE CRITERIA DEVELOPMENT

The 2018 Triennial Review identified Temperature Criteria and Objectives as a priority project to develop regionally applicable temperature criteria for the Central Valley. The report completed in FY18/19 that assessed the EPA Region 10 temperature criteria applicability for the Central Valley recommended the development of regionally based criteria. Water Board Staff continued to meet with Division of Water Rights, Division of Water Quality, and the San Francisco Bay Water Board to develop a joint long-term approach to address unresolved temperature criteria questions and uncertainties.

SALINITY AND CV SALTS

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

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

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

The Salt and Nitrate Control Program (SNCP) Basin Plan Amendment with supporting Staff Report and Substitute Environmental Documentation was adopted on 31 May 2018 (Resolution R5-2018-0034). [The Adoption Resolution with the final Staff Report and Basin Plan Amendment language](#) can be found at the following location:

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

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

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

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

Postcards notifying impacted permittees of the new regulations will be mailed out by 31 January 2020. The mailing of Notice to Comply letters are scheduled to begin in March 2020.

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

On 11 August 2017, the Board adopted the proposed Basin Plan Amendment to develop a region wide MUN evaluation process in Ag dominated surface water bodies. A State Board hearing to consider approval of the Basin Plan Amendment was held on 10 July 2018. State Board members deferred their decision on the amendments to a future date. Central Valley Water Board staff are continuing to work with State Board staff to address questions and concerns that were raised during the 10 July hearing and identify next steps.

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

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

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

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

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

SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)

LOWER AMERICAN RIVER BENEFICIAL USE ASSESSMENT

The Lower American River has been listed as impaired due to indicator bacteria on California's 303(d) List. To keep the public and local agency partners informed about current conditions, SWAMP is collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. In addition, DNA source identification monitoring was conducted from August through September 2019 at ten river sites and two urban runoff locations in the Lower American River. Initial results are expected to be available in 2020. Additional DNA sampling will commence in late Spring of 2020.

SUMMER RECREATIONAL BENEFICIAL USE ASSESSMENTS

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

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

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL ORDERS

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders staff seek to enroll the permittees under the general orders to streamline the permitting process. NPDES Tables 1 and 2, below, summarize the Notices of Applicability that were issued to date for Fiscal Year 2019/2020 (1 July 2019 and 31 December 2019) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order) and Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order).

NPDES PERMIT TABLE 1 –LIMITED THREAT DISCHARGES TO SURFACE WATERS

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

NPDES PERMIT TABLE 2 - MUNICIPAL GENERAL ORDERS

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

DAIRIES/CONFINED ANIMAL FACILITIES

POULTRY DISEASE OUTBREAKS

Due to outbreaks of avian influenza and virulent Newcastle disease, including in the Central Valley, and at the request of the State Veterinarian, staff is continuing its suspension of on-site inspections of poultry facilities. The State Veterinarian reiterated this recommendation on 23 December 2019 as a result of an increase in outbreak cases. If staff become aware of an imminent threat to water quality for which an inspection is necessary, we will coordinate with the Department of Food and Agriculture and follow all biosecurity procedures specified by them.

DAIRY INSPECTIONS

The Confined Animal Facilities Program's FY2019/2020 performance target for dairy facility inspections is 275. Staff have completed 128 inspections to date, which is slightly below the goal for this point in the fiscal year. However, staff anticipates being able to meet the performance target.

OIL FIELDS

WASTEWATER SURFACE PONDS

the Oil Field General Orders for Discharges to Land. Central Valley Water Board Staff has prepared two draft Notices of Applicability for General Order No. 3 that are anticipated to be issued in January 2020. Also, Central Valley Water Board staff received and completed a review of an application for individual waste discharge requirements for Modus, Inc. The review concluded that the application is incomplete and notified the operator that additional information is needed.

During November and December 2019, Central Valley Water Board staff completed write-up reviews of the following: a request to rescind groundwater monitoring requirements for Chevron USA, Inc.; a water well sampling plan for Longview Energy Company; a remediation workplan for Rio Bravo Jasmin, LLC; and three closure plans for Jaco Production Company; J.P. Oil Company, LLC; and Seneca Resources Corporation. Closure plans were requested for two ponds on the Gordon Dole Company's SP Lease in the Midway Sunset Oil Field. California Resources Production Corporation was requested to submit a technical report that includes plans for collecting samples from stockpiled soils generated during pond closure activities they conducted in 2010. In addition, seven NOVs were issued to six operators.

Incremental Oil and Gas USA Holdings Inc. (Incremental) has two active ponds on its Sheep Springs Lease in the Cymric Oil Field. Staff approved Incremental's work plan for detection of well stimulation fluids that is required by General Order Three.

Aera Energy LLC (Aera) has submitted multiple responses associated with Central Valley Water Board staff requests for a ROWD for its road mix facility in the South

Belridge Oil Field. Central Valley Water Board Staff are reviewing these responses. Wastes received from its oil fields in Central California are processed at this facility. Aera generates approximately 3500 tons of solids per month, and after processing, distributes the generated road mix on the leases in their oil fields.

SPILL RESPONSE

Central Valley Water Board Staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Central Valley Water Board Staff were notified of 13 events in November and December.

A spill of crude oil occurred on a pipeline right-of-way in the area related to the 5C Lease operated by Crimson Resource Management (Crimson) in the Midway Sunset Oil Field on 7 November. According to OES, the exposure of an out-of-service pipeline caused the discharge of approximately 0.024 barrels (bbls) (1 gallon (gal)) of crude oil to land. Crimson staff told Central Valley water Board Staff that the discharged amount of oil was very small, and cleanup of affected soil was completed. Crimson staff added that no dry stream beds or natural drainages were affected by the discharge.

A spill of crude oil and oil field produced wastewater occurred on the Section 36W Lease operated by Chevron USA, Inc. (Chevron), in the Cymric Oil Field on 8 November. According to OES, a surface expression caused the discharge of approximately 3 bbls (126 gals) of crude oil and 23 bbls (966 gals) of produced wastewater to land. In a telephone conversation on 12 November, Chevron staff told Central Valley Water Board Staff that this surface expression is fully contained, and no ephemeral stream beds or natural drainage courses were affected by the discharged fluids. On 2 December, the last update of the OES report for this incident reflected a total amount of approximately 780 bbls (32,760 gals) of crude oil and 5,720 bbls (240,240 gals) of wastewater. In a telephone conversation on 2 December, Chevron staff told Central Valley Water Board Staff that the seep has been dormant since 30 November.

A spill of oil field produced wastewater occurred on the Voigt Lease operated by E & B Natural Resources (E&B) in the Lost Hills Oil Field on 12 November. According to OES, equipment failure caused the discharge of approximately 10 bbls (420 gals) of produced wastewater from a wash tank onto land within a tank farm containment. In a telephone conversation on 13 November, E&B staff told Central Valley Water Board Staff that all discharged fluids were contained within the secondary containment of the source tank and no ephemeral stream beds or natural drainage courses were affected by the spill.

A spill of crude oil and oil field produced wastewater occurred on the Section 36W Lease operated by Chevron, in the Cymric Oil Field on 13 November. According to OES, a surface expression caused the discharge of approximately 0.79 bbls (33.88 gals) of crude oil and 5.8 bbls (243.6 gals) of produced wastewater to land. On 14 November, an update of the OES report for this incident reflected a total amount of approximately 2 bbls (84 gals) of crude oil and 18 bbls (756 gals) of wastewater. In a telephone conversation on 2 December, Chevron staff told Central Valley Water Board

Staff that the seep has been dormant since 14 November and cleanup of the areas affected by the spill was completed. Chevron staff told staff that no ephemeral stream beds or natural drainage courses were affected by this discharge.

A spill of crude oil and oil field produced wastewater occurred on the Wheatville Ranch Facility operated by California Resources Corporation (CRC) in the Helm Oil Field on 16 November. According to OES, a mechanical failure on a valve at a well site caused the discharge of approximately 5 bbls (210 gals) of crude oil and 10 bbls (420 gals) of produced wastewater to land. In a telephone conversation on 18 November, CRC staff told Central Valley Water Board Staff that the discharged fluids affected flat areas in an orchard and no ephemeral stream beds, or natural drainage courses were affected. On 18 November, Central Valley Water Board Staff received photographs of the areas affected by the spill from staff of the California Geologic Energy Management Division (CalGEM), formerly the Division of Oil, Gas, and Geothermal Resources. The photographs show flat areas covered with oil in what appeared to be a pistachio orchard. On 10 December, the CalGEM staff informed Central Valley Water Board Staff that cleanup of the affected areas has been completed and there is no visible indication of affected soil remaining. Post-cleanup photographs of the areas affected by the spill provided to Central Valley Water Board Staff by CalGEM staff show visibly clean areas, no free-standing fluids, and no oil-affected materials. On 11 December, CRC staff that the spill affected approximately 2 acres including 179 trees that were removed during cleanup. CRC staff confirmed that cleanup of the affected areas is complete.

A spill of crude oil occurred on the McVan Lease operated by E&B in the Poso Creek Oil Field on 29 November. According to OES, a power outage causing a mechanical failure resulted in the discharge of approximately 15 bbls (630 gals) of oil from a tank onto land within a tank farm secondary containment. In a telephone conversation on 2 December, E&B staff told Central Valley Water Board Staff that the discharged amount is between 200 and 300 bbls (8,400 to 12,600 gals), all contained within the secondary containment of the source tank. E&B staff added that cleanup of the affected areas will be completed.

A spill of crude oil occurred on the Section 34 Lease operated by Aera energy, LLC (Aera) in the Belridge Oil Field on 2 December. According to OES, an employee noticed an oil spill of an unknown source on the roadway near Highway 33 and 7th Standard Road. According to OES, the spill amount was estimated at approximately 1 bbl (42 gals) of oil. In a telephone conversation on 19 December, Aera staff told Central Valley Water Board Staff that the discharge is below 1 bbl (42 gals) of oil, no ephemeral stream beds or natural drainage courses were affected, and cleanup of the spill was conducted by Caltrans.

A spill of crude oil occurred on a right-of-way location on a private property from a pipeline operated by Shell Pipelines (Shell) near Midway Road and Highway 33 in the Midway Sunset Oil Field on 2 December. According to OES, a corroded section of an abandoned pipeline failed during the process of purging, discharging approximately 12 bbl (504 gals) of oil to land. In a telephone conversation on 3 December, Shell staff told Central Valley Water Board Staff that staff of the California Department of Fish and

Wildlife (CDFW) and the Kern County Fire Marshall inspected the spill site. Shell staff added that no Ephemeral stream beds or natural drainages courses have been affected and cleanup of the affected areas has been completed by Ponder Environmental Services, Inc.

A spill of crude oil and oil field produced wastewater occurred on the Section 6D facility operated by CRC in the Buena Vista Oil Field on 9 December. According to OES, CRC staff discovered a spill near a well site that discharged approximately 1.8 bbls (75.6 gals) of crude oil and 10 bbls (420 gals) of produced wastewater into a dry ephemeral stream bed. In a telephone conversation on 11 December, CRC staff told Central Valley Water Board Staff that the discharged fluids affected a section approximately 500-feet long of a dry stream bed. CRC staff also said that staff of CDFW inspected the areas affected by the spill and will conduct a post-cleanup inspection once cleanup is complete. On 19 December, CRC staff told Central Valley Water Board Staff that staff of CDFW conducted a post-cleanup inspection of the areas affected by the spill on 18 December and signed-off on the site cleanup with “*no further cleanup necessary.*”

A spill of crude oil and oil field produced wastewater occurred on a facility operated by O’Brien-Sill near the intersection of Short Road and Highway 166 in the Midway Sunset Oil Field on 11 December. According to OES, an emergency fill tank overflowed and discharged approximately 20 to 30 bbls (840 to 1,260 gals) of crude oil and 90 bbls (3,780 gals) of produced wastewater into a dirt road. In a telephone conversation on 13 December, staff of CDFW told Central Valley Water Board Staff that this spill affected a habitat area approximately 200 by 200 square feet in area. CDFW staff added that CDFW staff inspected the spill site and provided guidance to the responsible party regarding cleanup goals. CDFW staff also said that cleanup of the affected areas is expected to start shortly. In a telephone conversation on 9 January 2020, CDFW staff told Central Valley Water Board Staff that cleanup of the affected areas was complete by the time she inspected the affected areas on 18 December.

A spill of crude oil and oil field produced wastewater occurred on the Section 36 Plant operated by Chevron in the Kern River Oil Field on 26 December. According to OES, a pipeline leak caused the discharge of approximately 1 bbl (42 gals) of crude oil and produced wastewater into a dry stream bed. In a telephone conversation on 26 December, Chevron staff told Central Valley Water Board Staff that the discharged fluids flowed in the large stream channel that runs across the oil field down to China Grade Loop Road. Chevron staff also said that rainfall occurred before and after the discharge incident and all fluids pooled within the affected stream bed just upstream of China Grade Loop. Chevron staff added that Chevron took measures to prevent fluids from migrated further downstream within the affected stream bed. Chevron staff also stated that cleanup of the affected areas was in progress. Chevron staff provided Central Valley Water Board Staff with photographs of the pooled fluids in the stream bed. In a telephone conversation on 9 January, Chevron staff told Central Valley Water Board Staff that cleanup of the areas affected by the spill is complete and staff of CDFW inspected the affected areas on 6 January and signed-off on the site cleanup.

A spill of crude oil and oil field produced wastewater occurred on a facility operated by CRC in the Elk Hills Oil Field on 30 December. According to OES, corrosion in a flow line caused the discharge of approximately 5 bbls (210 gals) of crude oil and 50 bbls (2,100 gals) of produced wastewater into a low laying area. In a telephone conversation on 6 January, CRC staff told Central Valley Water Board Staff that cleanup of the areas affected by the spill was completed on 3 January and that CDFW staff are anticipated to conduct a post-cleanup inspection the week of 6 January.

A spill of crude oil occurred on a facility operated by Griffin Resources, LLC (Griffin) in the Fruitvale Oil Field on 30 December. According to OES, a hole in a 4-inch flow line caused the discharge of approximately 0.024 bbl (1 gal) of crude oil into a concrete vault beneath the discharge point. The OES report also states that no waterways were impacted, and cleanup was completed.

Central Valley Water Board Staff will conduct appropriate follow-up activities and consider appropriate enforcement for the spills.

FOOD SAFETY

On 7 November 2019, Central Valley Water Board Staff, members of the Food Safety Expert Panel (Panel), the Water Board's science advisor, and consultants working on the Food Safety project (project), held a conference call regarding the analytical results of food crop samples. The latest crop results from Agriculture and Priority Pollutants Laboratories (APPL) were received by the Board in September. A statistical analysis of the results was conducted by staff of GSI Environmental, Inc. (GSI), and reviewed by Central Valley Water Board Staff. GSI staff concluded that there is no discernable difference between crops grown with oil field produced water and crops grown with conventional irrigation water.

On 14 November 2019, Central Valley Water Board staff held a public meeting of the Panel. During the meeting, Central Valley Water Board staff presented the Panel with a draft version of the Food Safety Project's White Paper, which has been made available to the public via the Water Board's Food Safety web page. GSI gave a presentation on the progress of Tasks 1-3, which are being completed as a part of the project. Tasks 1-3 include identifying chemicals of interest, conducting a literature review on certain chemicals, and sampling food crops grown with oil field produced water. According to GSI staff, most of the work for Tasks 1-3 has been completed and reports are forthcoming. Central Valley Water Board Staff and members of the Panel have been providing comments on Task reports to GSI as they are submitted.

The next public meeting of the Panel will be 4 or 19 February 2020. Central Valley Water Board staff are working to prepare for the meeting, which includes reviewing documents being presented at the meeting, notifying the public, and planning for the meeting.

UIC PROGRAM

AQUIFER EXEMPTIONS

During the period from 1 November 2019 to 6 January 2020, staff of the Underground Injection Control Unit (UIC) performed the following activities:

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

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

Round Mountain South Aquifer Exemption – Staff met with State Water Board staff and staff of the CalGEM to discuss its responses to Staff's and State Water Board's questions and concerns regarding the aquifer exemption application.

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

UIC PROJECT REVIEWS

Staff reviewed baseline groundwater quality data that was submitted as a condition of approval for a waterflood project in the Round Mountain Oil Field. Staff sent CalGEM a no-objection-with-conditions letter and memorandum concurring with the commencement of injection activities in limited areas until an evaluation of groundwater quality could be conducted.

Staff received project information relating to an Operator's request to deepen and convert an existing water disposal well to a waterflood well in the Mount Poso Oil Field; however, the project application was incomplete, and Staff issued a letter and memorandum detailing the reasons it could not complete a review.

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

Staff sent CalGEM additional questions for two injection projects in the Kern River and Midway Sunset Oil Fields.

Staff sent its initial questions and concerns to CalGEM regarding potential impacts to groundwater quality from injection projects in the Fruitvale and Midway-Sunset Oil Fields.

Staff are preparing initial questions and concerns to CalGEM regarding potential impacts to groundwater quality from an injection project in the Edison Oil Field.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Board staff have completed one SB4 Well Stimulation Treatment (WST) Application package review and submitted written comments to the State Water Board. The Application package reviewed was for a location where "protected groundwater" has been determined to be present and was for Chevron's Lost Hills Oil Field (4 Applications). Initial reviews of five other WST Application packages have been completed. The final reviews will be completed upon receipt of additional information from CalGEM's.

Board staff have reviewed an Addendum to groundwater monitoring related plans for California Resources Production Corporation's (CRC) Northeast Expansion in the Buena Vista Nose area. A work plan for the drilling of a deep exploratory boring (section 15R) in CRC's Elk Hills Oil field was reviewed. The purpose of the work plan is to determine if protected groundwater is present. A groundwater monitoring plan for CRC Elk Hills and North Coles Levee Oil Fields was reviewed. Written comments were submitted to the State Water Board.

Central Valley Water Board staff have reviewed groundwater monitoring reports for numerous locations where well stimulations have been conducted. The groundwater monitoring reports reviewed were for: CRC's North Coles Levee Oil Field, Well 32-30; Well, 83-29; Well 42-31; Rose Oil Field Lincoln 10H and 12H wells; and, Seneca Resources Corporation's Citrus Lost Hills Oil Field 2H and Truman 2H wells. Memorandums documenting the reviews and containing comments were prepared and submitted to the State Water Board. Groundwater monitoring reports for seven other locations are currently under review.

IRRIGATED LANDS REGULATORY PROGRAM

(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 next meeting is scheduled for March 12th, to be held at the Madera Farm Bureau, and will focus on facilitating better coordination between SGMA, CV-SALTS and ILRP. 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).

ADOPTED REVISIONS TO GRASSLAND BYPASS PROJECT WDRS

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

EXPERT REVIEW OF ESJWQC SURFACE WATER MONITORING FRAMEWORK

State Water Resources Control Board Order WQ-2018-0002 directed the Central Valley Water Board to convene an external expert review of the East San Joaquin Water Quality Coalition's surface water monitoring framework. A five-member expert panel review process is being facilitated by Steve Weisberg of SCCWRP. The first public Panel Meeting was held on 7-9 January 2020 at the Central Valley Water Board's Rancho Cordova office. Meeting videos and additional panel and meeting information is available on the following website: [Expert Review Panel for the East San Joaquin \(ESJ\) Surface Water Quality Monitoring Program](https://www.sccwrp.org/about/research-areas/additional-research-areas/east-san-joaquin-expert-panel/)

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

The second public Panel Meeting is scheduled for 28-30 April 2020.

NORTHERN MANAGEMENT PRACTICES EVALUATION PROGRAM GROUP COORDINATION COMMITTEE

On 13 December 2019, the Executive Officer approved an extension to 1 July 2020 of the Phase III Work Plan submittal for the Northern Management Practices Evaluation Program (MPEP) Group Coordination Committee. The extension was approved to provide additional time for development of groundwater modeling tools that will link outputs from the Soil and Water Assessment Tool (SWAT) to Dr. Thomas Harter's, UC Davis, groundwater flow tool. The Phase III Work Plan will include the schedule and deliverables for the correlation of SWAT outputs to groundwater quality and describe work that is critical to the success of the MPEP.

ILRP OUTREACH, COMPLIANCE & ENFORCEMENT

DRINKING WATER WELL MONITORING OUTREACH

Outreach efforts continue for the new drinking water well monitoring requirements in the East San Joaquin Water Quality Coalition (ESJWQC) and the Tulare Lake Basin.

ESJWQC members were required to monitor drinking water wells on enrolled parcels in 2019. Tulare Lake Coalition members are required to start sampling in 2020. Board staff is continuing to work with members by providing guidance and answering questions.

ESJWQC members have just completed their first year of sampling. Due to a rush of growers sampling at the end of the year, laboratories are still entering sample data into GeoTracker from 2019. Over 1,887 sample results have been submitted to Geotracker, with about 33% exceeding the drinking water standard.

Board staff is tracking notification submittal and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users accordingly. From October to December 2019, staff sent 116 letters to ESJWQC members/landowners reminding them of the notification requirement then sent 9 Notices of Violation to members who did not respond to the reminder letters. This process has achieved 100 percent compliance. Board staff will continue with progressive enforcement actions as needed to obtain notifications.

AGRICULTURAL PARCEL INSPECTIONS

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

Coalition Area	Parcel Inspections Oct 1 – Dec 31
San Joaquin Co & Delta	130
Sacramento Valley	67
Total	197

ON-FARM INSPECTIONS FOR GENERAL ORDER COMPLIANCE

The purpose of on-farm inspections is for Board staff to visit coalition-enrolled farms and discuss water quality-related issues with growers. During the inspection, staff reviews the farm evaluations, nitrogen management plans and sediment and erosion control plans and evaluates inspects the site conditions. This includes inspecting potential surface water discharge locations, pollution management practices, chemical storage and handling areas, and wellhead protection practices.

Coalition Area	On-Farm Inspections Oct 1- Dec 31
East San Joaquin	2

Coalition Area	On-Farm Inspections Oct 1- Dec 31
Westside San Joaquin	5
Sacramento Valley	20
Total	27

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.

Coalition Area	13260 Directives sent Oct 1- Dec 31
Sacramento Valley	8
Total	8

WATER CODE SECTION 13260 DROPPED-MEMBER DIRECTIVES

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

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

NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO 13260 DIRECTIVES

Notices of Violation (NOVs) were sent to un-enrolled farmland owners or operators for their failure to respond to a 13260 Directive letter. Failure to respond to the NOV subjects the discharger to further enforcement actions which may include an administrative civil liability order.

Coalition Area	NOVs Mailed Oct 1- Dec 31
Sacramento Valley	62
Total	62

SACRAMENTO RIVER WATERSHED COALITION GROUPS

CALIFORNIA RICE COMMISSION

On 19 December 2019, the California Rice Commission submitted the 2019 Annual Monitoring Report for surface water and groundwater monitoring conducted from 1 November 2018 through 31 October 2019. The report also identified penoxsulam and bispyribac-sodium as the pesticides that will be monitored in 2020. The report met the reporting requirements of the Order. A staff review of the report was provided to the California Rice Commission on 13 January 2020.

SACRAMENTO VALLEY WATER QUALITY COALITION

On 23 October 2019, Sacramento Valley Water Quality Coalition submitted revisions to the Monitoring Plan Update for the 2020 Water Year. These revisions were reviewed, and the final 2020 Monitoring Plan Update was approved on 5 November.

On 8 November 2019, Staff completed the review of Sacramento Valley Water Quality Coalition's 2018 annual reports. The annual reports include the Surface Water Monitoring Report, Groundwater Monitoring Report, Chlorpyrifos and Diazinon TMDL Report, and the Management Plan Progress Report.

On 22 November 2019, Sacramento Valley Water Quality Coalition submitted a management plan to address *Hyalella azteca* sediment toxicity in Ulatis Creek. This plan is under staff review.

On 26 November 2019, Sacramento Valley Water Quality Coalition submitted requests to complete management plans for DDE in Coon Hollow Creek, Gilsizer Slough, and Rough and Ready Pumping Plant. These are under staff review.

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

EAST SAN JOAQUIN WATER QUALITY COALITION

On 19 November, staff provided a review of the Coalition's 2019 Annual Management Practice Implementation and Nitrogen Application Report.

On 1 December, staff received the Coalition's Quarterly Monitoring Data Report for the period April 1 through 30 June 2019.

On 4 December, the Executive Officer approved the Coalition's Groundwater Management Practice Implementation Report template. The template contains detailed groundwater management survey questions that will be filled out by members to document existing and new management practices as required by the Order.

On 19 December, the Coalition submitted an amendment form to update the Quality Assurance Project Plan. The Coalition proposes to update the list of constituents and

associated Data Quality Objectives to reflect the Monitoring Schedule for the 2020 Water Year. The amendment is currently under staff review.

On 15 January, the Coalition submitted an addendum to the 2020 water year Monitoring Plan Update report, including an updated excel workbook of the monitoring schedule based on exceedances that occurred during the June through September 2019 monitoring period. The addendum is currently under staff review.

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

On 26 November, the Coalition submitted the Annual Management Practice Implementation and Nitrogen Application Report (AMPINAR) for the 2018 Crop Year. The AMPINAR includes the Nitrogen Management Plan Summary Report (NMP SR) Analysis, updates to Farm Evaluations, and updates to the Management Practice Implementation Reports according to the requirements listed in the Waste Discharge Requirements General Order No. R5-2014- 0029-04 (Revised February 2019). It is under staff review.

On 2 December, the Coalition submitted its quarterly data submittal that includes monitoring data April through June monitoring results, field sheets, lab reports and the eQAPP.

On 2 December, staff requested public comments on the Coalition's Annual Management Practice Implementation and Nitrogen Application Report (2018 crop year). The deadline to submit comments was 10 January 2020.

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

On 30 November, the Coalition submitted the Annual Management Practice Implementation and Nitrogen Application Report for the 2018 Crop Year. Staff review will commence shortly.

On 23 December, the Executive Officer approved the Coalition's March 2020-February 2021 monitoring plan.

On 23 December, the Coalition submitted a Management Plan Completion Request to complete 43 management plans. This is currently under staff review.

GRASSLAND DRAINAGE AREA COALITION

The 2018 Annual Monitoring Report was submitted on 28 May 2019. The report discusses the results of the first year of groundwater monitoring in the Grassland Drainage Area and proposes updates to the groundwater quality trend monitoring well network for 2019. A staff review memorandum was mailed on 22 July and required revisions to the report prior to finalization. On 28 October staff received a revised report that addresses the comments provided in the review memorandum. The annual monitoring report for 2019 is due by 30 April 2020.

TULARE LAKE BASIN COALITION GROUPS

KAWEAH BASIN WATER QUALITY ASSOCIATION

On 12 December 2019 the Executive Officer issued an approval of the Surface Water Pesticide Monitoring Plan proposed by the Kaweah Basin Water Quality Association. The approval was based on a staff review of the monitoring proposal which concluded that it complied with the monitoring and reporting requirements of the General Order.

KERN RIVER WATERSHED COALITION AUTHORITY

On 1 November 2019 staff issued a letter to the Kern River Watershed Coalition Authority providing feedback on the groundwater quality trend monitoring data contained in the Coalition's Monitoring Report for the 2018 water year. Recommendations included seeking out additional monitoring wells in the northwestern portion of the coalition area and including additional discussion supporting the use of specific wells.

KINGS RIVER WATER QUALITY COALITION

On 24 October 2019 staff issued a review of the King River Water Quality Coalition's proposed updates/refinements to the Groundwater Quality Trend Monitoring network for the 2019 monitoring year. The review identified potential issues with a number of the proposed wells and requested additional information to demonstrate the monitoring network is capable of meeting the General Order's stated objectives for groundwater trend monitoring.

On 19 November 2019 staff issued a letter to the Kings River Water Quality Coalition providing feedback on the groundwater quality trend monitoring data contained in the Coalition's Monitoring Report for the 2018 water year. Recommendations included continued work to find additional wells appropriate for groundwater quality trend monitoring purposes and ensuring the monitoring network design is supported by appropriate rationale.

OTHER PROJECTS

DATA MANAGEMENT

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

On 1 December the Sacramento Valley Water Quality Coalition provided its third quarter 2019 data submittal. It is under staff review.

On 31 December the California Rice Commission provided its annual 2019 data submittal. It is under staff review.

GRASSLAND BYPASS PROJECT

On 21 October 2019, technical memorandums investigating exceedances that occurred during 2018 for pH and molybdenum were submitted. Staff is currently reviewing the memorandums.

RICE PESTICIDE PROGRAM

The Annual Rice Pesticide Program Stakeholder meeting was held on 6 November 2019 at the Central Valley Water Board office in Rancho Cordova.

The 2019 Annual Monitoring Report and the California Rice Commission's recommendations for the 2020 monitoring season were submitted on 19 December 2019. Staff is currently reviewing the report and recommendations

NON-POINT SOURCE (NPS)

CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

Staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Staff is in the process of drafting and sending enforcement orders to each responsible party to obtain this information. On 15 January 2020, staff issued a 13267 Order to Irrigated Agriculture in response to their 9 January 2019 13267 letter to determine load allocation compliance. The new Order requires an updated load estimate based on recent irrigated agriculture surveys, updated management practices, and steps outlined in their response to the prior Order.

On 22 August 2019, a Time Schedule Order (TSO) request was submitted on behalf of Lake County MS4 co-permittees. On 13 December 2019, the Board issued a TSO to the permittees. The TSO includes a schedule of when the permittees will be in compliance with their load allocation.

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

On 10 October 2019, staff sent County of Lake a 13267 Order regarding their nonpoint source load allocation.

On 11 December 2019, Jennifer LaBay attended the Blue-Ribbon Committee for the Rehabilitation of Clear Lake Meeting. At the meeting, the Blue-Ribbon Committee approved the 2019 annual report that is required to be submitted to the California

Legislature. The report included several recommendations designed to provide water quality information for Clear Lake and to take preliminary steps to improve management strategies. The report also outlined activities the Committee will implement in 2020. A copy of the report will be posted to the California Natural Resources Agency's Blue-Ribbon Committee website. Meeting details are publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency's [Blue Ribbon Committee website](https://resources.ca.gov/clear-lake/). (resources.ca.gov/clear lake/)

Board Member Robert Schneider has been acting as Jennifer LaBay's alternate on the Blue-Ribbon Committee. Following his tenure with the Central Valley Water Board, Board Member Schneider will continue his work as a Water Board representative on the Blue-Ribbon Committee.

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

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

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.html).

CYANOBACTERIA BLOOMS UPDATE

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

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

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

posting advisory signs, sign templates, and information on control and treatment options.

WINTER 2019-2020 – CENTRAL VALLEY BLOOMS

Cyanobacteria blooms typically occur from summer through late fall. However, blooms can occur in the winter, especially if temperatures are mild and nutrients are introduced from rainfall runoff. A summary of cyanobacteria blooms for the period of November 2019 to January 2020 is provided in Table 2.

Table 2. Cyanobacteria Bloom Summary: November 2019 to January 2020

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

CANNABIS

GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

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

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

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

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

County	CE	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	2	14	4	0	2	2	0	24
Colusa	2	1	0	0	0	0	0	3
Contra Costa	1	0	0	0	0	0	0	1
El Dorado	0	1	0	0	0	0	0	1
Kern	1	0	0	0	0	0	0	1
Lake	13	90	4	0	81	2	1	191
Fresno	4	0	0	0	0	0	0	4
Merced	4	0	0	0	0	0	0	4
Nevada	12	154	3	1	5	0	0	175
Sacramento	127	0	0	0	0	0	0	127
Sierra	0	2	0	0	0	0	0	2
Solano	4	0	0	0	0	0	0	4
Shasta	11	0	0	0	0	0	0	11
Siskiyou	4	0	0	0	0	0	0	4
Stanislaus	14	6	0	0	2	0	0	22
Tulare	6	0	0	0	0	0	0	6
Yolo	2	19	0	0	46	0	0	67
Yuba	1	0	0	0	0	0	0	1
Total	208	287	11	1	136	4	1	648

OUTREACH

- Outreach events occurred throughout November and December as follows:
- “Get Legit 2020” in Nevada County, hosted by the Nevada County Cannabis Alliance: November 5
- A guest lecture regarding the Central Valley Water Board’s cannabis program at Chico State: November 13
- “Get Legit 2020” in Nevada County, hosted by the Nevada County Cannabis Alliance: December 3
- Two half-day workshops on the general order, reviewing it in detail with cultivators and consultants in Yolo County: December 4 and 5
- A table at the Emerald Cup, a two-day event in Santa Rosa attracting thousands of cannabis cultivators: December 14-15

COMPLIANCE AND ENFORCEMENT – ENROLLMENT ENFORCEMENT

On October 16th 25 Notices of Violation were issued for cultivators in Nevada county who failed to follow through on previously issued Water Code section 13260 directive letters. We have an 83% response rate to the communication at this point, including an addition 15 enrollments.

COMPLIANCE

Staff completed the following compliance inspections in November and December:

- Four in Nevada County on 6/7 November
- Two in Yolo County on 19 November and 21 December 12
- Two in Lake County on 12 and 27 December
- Two in Nevada County on 16 and 30 December

ENFORCEMENT

On September 20th, staff performed an enforcement follow-up inspection alongside CDFW wardens and scientists in Lake County.

COORDINATION

On 22 January 2020, Cannabis Program management attended a Cannabis Executive Enforcement Summit hosted by the State Water Board's Office of Enforcement. Participation included upper level Cannabis Program management from Regional Water Boards, State Water Board, and California Department of Fish and Wildlife. Topics included prioritization of enforcement efforts, enforcement strategies, communication between agencies, and local agency coordination.

GRANTS

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

Approximately \$4 million is available for the 2020 solicitation through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. In addition, approximately \$1 million from the Timber Regulation and Forest Restoration Fund will be used to address post-fire recovery needs in areas affected by fire, as indicated in the emergency proclamations by the Governor, the 2020 Nonpoint Source Program Preferences include post-fire recovery projects.

The 2020 solicitation for proposals closed 17 December 2019. One proposal was received for Butte Creek Camp Fire Post-Fire Recovery Project for \$799,705. Proposals will be reviewed and scored within the next few months and applicants will be notified in Spring/Summer 2020. For more information, please visit the [NPS website](https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html):

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

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

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

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

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

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

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:

PONDEROSA WAY ROAD ASSESSMENT AND SEDIMENT REDUCTION PLAN (PHASE I) (\$300,000)

The Tehama County Resource Conservation District will prepare an Action Plan to reduce sedimentation from two miles of Ponderosa Way and another eight miles of roads upslope and/or downslope of Ponderosa Way within the Battle Creek Watershed, implement one project to reduce sediment inputs to Battle Creek and prepare CEQA document for future road fixes. The implementation portion of this project has been completed and the grantee will now formulate a Monitoring Report, Annual Progress Summary, and Final Project Report. A final project inspection will take place prior to the 2/28/2020 closing date. (Closing 2/28/2020)

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

The Tehama County Resource Conservation District will conduct a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). This project will result in a sediment reduction plan for the Project Area with one demonstration project in the Project Area. Proposed demonstration projects were on United States Forest Service property which would have required NEPA documentation, which was not considered given the short time frame to complete. Private timber land is currently being considered for implementing the demonstration project. Due to complications in choosing an adequate demonstration project site location, a time extension has been requested by the grantee which will give the grant a new closing date of 4/30/2021 once approved. Sierra Pacific Industries (SPI) appears they are willing to allow the demonstration project to take place on their land and are considering providing an equal match contribution, but this will not be confirmed until SPI's 2020 budget is finalized by mid-February 2020. (Closing 4/30/2020)

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

California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest. The grantee has completed documentation from Post-Fire Treatment Identification and Installation, Catchment Response Across Burn Severities, and is currently refining a Salvage Logging Alternative Best Management Practices (BMP) write-up. A time extension is currently being processed to allow the grantee to formulate a more refined analysis and write-up of the BMP demonstration project and the post-fire salvage guidance document. The time extension would give this grant a new closing date of 4/30/2021. (Closing 4/30/2020)

ROADSIDE FUEL REDUCTION (\$370,000)

Yuba County will construct 185 acres of shaded fuel breaks along 30 miles of roadways in the Yuba foothill state recreation area. This project will result in enhanced fire safety and prevent water quality degradation from wildfires. Project implementation is complete; Final Report is due 3/31/2020. (Closing 4/30/2020)

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

The Western Shasta Resource Conservation District will prepare a prioritized erosion prevention plan to identify and reduce road-related sediment inputs to North Fork Battle Creek. The project will include a road assessment on approximately 23 miles of county roads, a training workshop to provide road crews with techniques to perform an effective implementation project along Rock Creek Road, and the preparation of CEQA

documents. Currently the grantee is working on the completion of the draft action plan and assessing potential sites for the implementation project. (Closing 10/31/2021)

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

The Resource Conservation District of Butte County will conduct a road inventory and prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), prepare a CEQA document, implement road upgrades along four (4) miles of Powellton Road within the Butte Creek watershed, and hold two public workshops. The grantee has completed future road related sediment source assessments and conducted analysis of stream crossing surveys to determine estimated potential future erosion potentials. Implementation project contractor bids are currently under review. (Closing 2/28/2021)

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

American Rivers Inc. will prepare an Action Plan to reduce sedimentation from native surface roads located within the Deer Creek and North Yuba watersheds, prepare a CEQA document, implement road upgrades within the Deer Creek watershed, and provide public outreach. There has been a recent staff change in the project director and we are waiting on a signed Project Director Certification from the grantee. The grantee is currently proposing to utilize CEQA exemptions to execute the project and will have the appropriate forms filed by March 2020. (Closing 2/28/2022)

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy is planning to thin approximately 200 acres of merchantable timber under a CAL FIRE Fire Prevention Pilot Project Exemption and associated road maintenance. Thinning operations are complete and currently the grantee is looking at upgrading the road network throughout the project area. (Closing 3/30/2022)

TIMBER REGULATION AND FOREST RESTORATION FUND FY 19/20 APPROVED GRANTS:

The following Timber grants have been approved for funding and are currently under review and development and are expected to be formally executed in the next several months:

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 slide 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.

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

The purpose of this project is to implement forest management practices through identification and reduction of road and trail related erosion and sediment delivery features in Upper Bidwell Park located within the Big Chico Creek Watershed. Although the project area is not in a State Responsibility Area (SRA) it is directly adjacent to an SRA. The identified project area directly poses a threat to SRA lands and SRA lands drain directly into the project area within the Big Chico Creek Watershed.

TIMBER REGULATION AND FOREST RESTORATION FUND FY 20/21

There will be no funding available to the Water Boards for new grants through the Timber Regulation and Forest Restoration Fund (TRFRF) in fiscal year 20/21. State Board is uncertain if funding will be made available in future years at this point. The TRFRF grants provided a unique opportunity for the Central Valley region in particular, since the funds could be expended on projects in watersheds that have not yet been listed as impaired (unlike EPA's 319h funds). TRFRF grants have implemented the projects listed above, some of which are in watersheds with high quality waters, in an effort to ensure those waters continue to be high quality. Elimination of this funding means a loss of both opportunity and a valuable tool in our toolbox.

PUBLIC/DISADVANTAGED COMMUNITY/TRIBAL OUTREACH

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

*On 13 November, Jeff Hannel participated (via conference call) in the Kings IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 14 November, Patrick Pulupa, Adam Laputz, Anne Walters, and Walter Plachta participated in the CV-SALTS Executive Committee meetings. Discussions focused on grant activities relating to the development of Management Zone pilot studies, the Salinity Prioritization and Optimization Study work plan and other Salt and Nitrate Control Program outreach activities.

On 19 November, Zaira Lopez-Narvaez presented at the 5th annual Latino Farmer Conference at the Tulare Ag Center in Tulare, CA. The presentation provided attendees an overview of the Irrigated Lands Regulatory Program and its requirements, with

specific focus on completion of the Irrigation and Nitrogen Management Plan (INMP) and INMP Summary Report. The presentation also touched on the upcoming domestic well sampling requirements beginning in 2020.

*On 21 November, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 4 December, Clint Snyder, Angela Wilson, and Colt Brockman attended and presented at the Water Boards' annual Disaster Response Summit held at CalEPA. The Summit largely serves as a venue to share experiences, and to assist in the development of more efficient and effective response strategies statewide. As a result of the 2018 wildfires, the State Water Board received dedicated positions to develop an emergency response unit to assist in better coordinating emergency response activities statewide. The Board appointed John Elkins to lead the Unit.

On 6 December, Clint Snyder and Angela Wilson participated in a meeting with CalOES and CalRecycle to discuss permitting approaches to remove between 300,000 and 500,000 dead or threatened trees within the Town of Paradise. Work is likely to begin early spring 2020 and will include the removal of all trees within rights of way that died, or are likely to die, as a result of the 2018 Camp Fire.

*On 6th December, Sue McConnell held a conference call with representatives from Clean Water Action and Community Water Center, American Rivers, and Leadership Counsel for Justice and Accountability. The conference calls are scheduled quarterly to provide updates on the ILRP and a forum to discuss any ILRP-related issues.

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

*On 11 December, Jennifer LaBay and Robert Schneider attended the Clear Lake Blue Ribbon Committee meeting

On 11 December, Clint Snyder and Angela Wilson attended an evening reception, Forests in Flux: How Science Can Inform Policy. The event was held in San Francisco, co-hosted by the USDA California Climate Hub and UC Davis John Muir Institute of the Environment, with the participation of the California Natural Resources Agency.

On 13 December, Janis Cooke participated in a meeting of the San Francisco Bay Nutrient Management Strategy Steering Committee. The committee discussed communication and reporting for the \$2.4 million per year program and received technical updates on the biogeochemical field program, modeling, and harmful algal Bloom monitoring.

On 19 December, Clint Snyder attended a day-long retreat in Sacramento charged with building out a new State and Regional Water Board Water Leadership Program (WLP).

The concept of the WLP was born in 2018 via a Deputy Management Committee subcommittee assessing the adequacy of existing training opportunities to develop Water Board leaders. From that work, the Subcommittee prepared a proposal for an entirely new program, the WLP, that would serve to develop technical and managerial leaders with the knowledge, skills, and abilities to tackle the Boards' more challenging projects into the future. The proposal was approved by the Management Coordinating Committee in 2019. The WLP consists of six Board advisory team members and two outside consultants.

*On 19 December, Omar Mostafa participated (via conference call) in the Tulare IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

*On 8 January, Jeff Hannel attended the Kings IVAN Reporting Network task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members.

On 9 January, George Low and Monique Gaido, Geologists with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III meeting conducted in Tehama County. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, train about, plan and exercise emergency response to incidents resulting from chemical hazards in the community. This month's meeting discussed membership recruitment for open representatives on the committee. The Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee. The meeting also included upcoming regional trainings, a presentation about illegal cannabis grows by Trinity County Environmental Health staff, and agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

On 10 January, Clint Snyder and Elizabeth Betancourt held a meeting with James Thorne, a Research Scientist for Environmental Science and Policy at UC Davis. Mr. Thorne is a leading scientist in the area of climate and ecosystem analysis. The purpose of the meeting was to better understand current modeling approaches being used that could aid in the development of CalMAIN, a multi-agency technology platform being developed to inform natural resource-based management questions about cumulative effects of activities that cross agency jurisdictions.

*On 14 January, Jeff Hannel attended the Fresno Environmental Reporting Network (FERN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members

On 15 January, Lynn Coster and Rebecca Tabor made a presentation at the National Park Service's "NERD Fest 2020!", an interagency meeting to share data from research,

monitoring and restoration efforts within the Carr, Delta, and Hirz Fires. Their presentation, entitled Carr Post-Fire Surface Water Quality Assessment, covered the strategy used to develop a water quality monitoring plan, monitoring results, next steps, and the goals of the program. The meeting included presentations from 13 different researchers who have been investigating the impacts of the Carr Fire and other urban fires in Northern California, with the information shared with approximately 60 attendees.

GENERAL UPDATES TO THE BOARD

CONSTITUENTS OF EMERGING CONCERN (CECS)

CECs PILOT STUDY WORK PLAN

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 CECs Statewide Pilot Study Monitoring Plan. The POTW/MS4 group have developed the Central Valley Pilot Study for Monitoring Constituents of Emerging Concern (CECs) Work Plan (Work Plan) based on feedback from the State Water Board and Central Valley Water Board staff.

In fiscal year (FY) 18/19, The Delta Regional Monitoring Program (DRMP) approved the Work Plan and allocated funding for the Aquatic Science Center (ASC) to complete the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP). At the 29 October 2019 Joint DRMP Meeting, the Steering Committee voted to allocate \$117,000 of Supplemental Environmental Project funds and \$92,529 of DRMP funds towards Year 1 of the CEC Pilot Study. ASC is working to incorporate laboratory-specific details into the QAPP and SAP and will conduct a meeting for the CEC Subcommittee to solicit for input on lab selection to complete the plans and submit them for the approval process. Ambient CEC sampling is planned to begin in the second or third quarter of 2020 after the QAPP and SAP are approved.

CARR FIRE

Redding office staff continues to work with the Western Shasta Resource Conservation District to implement sediment and erosion control measures in priority watersheds burned in the Carr Fire in 2018. To date approximately 903 acres have been treated. Design and permitting for eight culvert replacements is nearing completion, and construction will begin shortly. An additional round of water quality monitoring was conducted during a significant storm event in January 2020.

E&J GALLO WINERY, FRESNO COUNTY

On 18 December, E&J Gallo Winery (Gallo) submitted a groundwater investigation work plan update (update) as requested by Central Valley Water Board staff. Central Valley Water Board staff discussed the update with Gallo on 20 December and received an

email revision to the update on 20 December. In a letter dated 24 December, Central Valley Water Board staff approved the update, as revised by the 20 December email. The revised update proposes two new monitoring wells (one shallow and one deep) that are located farther away from potential water bodies that could have interfered with the representativeness of the groundwater results.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – OCTOBER 31, 2019 – DECEMBER 30, 2019

PROMOTIONS:

Courtney Kasich
Ashley Hernandez
Kari Holmes

LEAVE OF ABSENCE:

Lixin Fu

RETIREMENT:

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

SUMMARY OF POSITIONS:

Total Authorized Positions: 275.7

Total Vacant Positions: 22.5

Sacramento

Authorized Positions: 148
Vacancies: 9.5

Fresno

Authorized Positions: 76
Vacancies: 5

Redding

Authorized Positions: 51.7
Vacancies: 8

Separations:

Shannon Roy - Scientific Aid
Haya Qutob - Scientific Aid
Lee Barclay - Scientific Aid
Ashley Bonsey- Scientific Aid

Temporary Positions:

None

New Hires:

Richard Ramirez - Scientific Aid

Eric Baggs - Scientific Aid

Gita Kushwaha - Scientific Aid

Samantha Parker - Scientific Aid

Sheri Owen - Seasonal Clerk

TRAINING UPDATES – OCTOBER 31, 2019 – DECEMBER 31, 2019

Class Title	Number of Attendees
14th Biennial State of the San Francisco Estuary Conference	1
40-Hour Hazwoper Training	1
8 Hour Hazwoper Refresher Training	41
Aquatic Toxicity Testing & Application	15
BIO-303 Pacific Salmonids: Ecology	1
EEO: Workplace Rights and Responsibilities	13
Effective Change Management	1
Emergency Planning	1
EOC Action Planning G-626E	1
Ethics Training for State Officials	1
Field Safety Training	2
FLSA Compliance Training	6
HAZWOPER 40 Hour	1
Implementing Strengths-Based Leadership	1
Leading Effectively	1
Maintaining a Respectful Work Environment	1
Meeting Facilitation Skills for Water Board Staff - Level 3	3
Overcome Information Overload to Thrive in the Workplace	1
PFAS in California; Past, Present & Future	1
Procurement Training	5
Project Management	1
Racial Equity Orientation for Supervisors & Managers	22
RODs and More	1
Source Area Remediation	1
Time Management	1
Tips for Submitting a Complete Application and Answers to FAQs	5
Tribal History and Cultural Competency	2
Underground & Surface Mine Refresher Training	5

FISCAL UPDATE

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

CONTRACTS

OPERATIONAL SUPPORT SERVICES

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
17-084-150, Amendment 1	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services, Redding Office	05/24/2018	09/30/2020	\$60,000
19-046-160	TBD	Fixed wing aircraft - Aerial surveillance services	TBA	4/30/2023	\$60,000

WATER QUALITY STUDY/PLANNING

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
16-046-150, Am. 1	UC Davis	Study to develop reference toxicity values for herbicides/fungicides present in Delta for native algal species.	2/13/2017	02/12/2020	\$375,000
16-074-150, Am. 3	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	03/31/2020	\$443,511
17-022-150	Department of Water Resources	Ongoing operation and maintenance – SWAMP.	07/01/2017	06/30/2020	\$180,000
17-054-150	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP).	01/09/2018	06/30/2020	\$154,191
17-065-150	USGS	Non-point source aquatic passive sampling study plan (Phase 2).	06/30/2018	03/31/2020	\$190,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
17-066-150	Department of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	03/31/2020	\$154,055
17-069-150	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	06/30/2020	\$135,500
18-027-150	UC Davis	Tech assistance to determine pyrethroid partition coefficients for sediment samples of the Central Valley.	11/29/2018	01/31/2021	\$100,000
18-053-150	Caltest Analytical Laboratory	Lab services (Rancho Cordova office)	08/15/2018	06/30/2021	\$240,000
18-054-150	Basic Laboratory, Inc.	Lab services (Redding office)	08/15/2018	06/30/2021	\$165,000
18-055-150	Moore Twining Assoc. Inc.	Lab services (Fresno office)	08/15/2018	06/30/2021	\$195,000
18-057-150	UC Davis	Interpretation of Soil Chemistry	07/01/2018	03/31/2020	\$199,987
18-058-150	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads, cycling and characterize ecosystem response under current and future scenarios.	07/01/2018	03/31/2020	\$400,000
18-071-150	Basic Laboratory, Inc.	Emergency lab services, Carr Fire	07/26/2018	06/30/2020	\$110,000
18-084-150	Southern California	To organize and facilitate a Surface	4/17/2019	01/30/2021	\$249,806

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
	Coastal Water Research Project Authority	Water Expert Panel to evaluate the adequacy of the surface water monitoring and assessment framework in the Eastern San Joaquin (ESJ) River Watershed General Waste Discharge Requirements			
19-003-150	Southern California Coastal Water Research Project Authority	The project will identify the environmental drivers contributing to cyanobacterial blooms and toxin production in Clear Lake, Lake County.	9/27/2019	03/31/2022	\$510,000
19-004-150	34 North	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	11/21/2019	3/31/2022	\$89,900
19-033-150	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	3/31/2022	\$525,000
20-005-150	United States Geological Survey	Keswick Reservoir mixing study.	TBD	11/30/2023	\$250,000
20-012-150	TBD	Helicopter services; Routine and emergency aerial surveillance (Rancho & Redding SB 901 & Fresno).	TBD	TBD	\$185,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
TBD	Southern California Coastal Water Research Project Authority	Biostimulatory/bio integrity in constructed channels.	TBD	TBD	\$250,000

FUTURE BOARD ACTIVITIES

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

APRIL 2020 BOARD MEETING

NPDES PROGRAM– PERMITTING

- Merced WWTF Renewal
- Municipal General Order Amendment
- City of Woodland Renewal
- Stallion Springs Community Services District WWTF Rescission
- Sierra Pacific Industries Burney Division Sawmill Renewal
- Malaga WWTF Rescission
- Paradise WTP Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- UC Davis Aquatic Weed & Hydraulics Lab, Revised WDRs
- North State Rendering, Revised WDRs
- The Garlic Company, Revised WDRs
- Sunsweet Dryers, Revised WDRs
- Barrel 10 Winery, Revised WDRs

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- City of Los Banos Solid Waste Disposal Site, Revised WDRs
- Ponderosa Landfill, Revised WDRs
- SPI Martel, Revised WDRs
- Fink Road Landfill, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- Updated Grasslands Bypass Project WDRs to regulate stormwater discharges from agricultural lands.

JUNE 2020 BOARD MEETING

NPDES PROGRAM – PERMITS

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

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Corcoran WWTF, Revised WDRs
- Horizon Nut, Revised WDRs
- Gerawan Farms, New WDRs
- City of Modesto WWTF, Revised WDRs
- Wonderful Pistachios, New WDRs
- Olson Meats, Revised WDRs
- Bronco Winery, Revised WDRs

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Recology Hay Rd Landfill, Revised WDRs
- Forward Landfill, Revised WDRs
- Loomis Landfill, Revised WDRs
- Neal Road Landfill, Revised WDRs

IRRIGATED LANDS REGULATORY PROGRAM

- Informational item on ILRP enrollment status and next steps.

STORM WATER AND WATER QUALITY CERTIFICATION PROGRAM

- General Order for Dredging Activities not requiring a Federal Permit/General 401 Certification for Dredging Activities requiring a Federal Permit

AUGUST 2020 BOARD MEETING

NPDES PROGRAM – PERMITTING

- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Bear Valley CSD WWTP Renewal
- Sixteen-to-One Mine Renewal

IRRIGATED LANDS REGULATORY PROGRAM

- Informational item to discuss tentative Irrigated Lands WDRs to implement CV SALTS.

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

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

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

NPDES PERMITS

- Mountain House CSD WWTP Amendment
- City of Galt WWTP & Reclamation Renewal
- City of Rio Vista Northwest WWTF Renewal
- Mariposa Public Utility District WWTF Rescission
- Olivehurst Public Utility District WWTP Amendment
- Donner Summit Public Utility District WWTP Renewal
- Sierra Pacific Industries, Quincy Division Renewal
- Washington Mine Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- Butte College WWTF (Revised WDRs)
- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Madera WWTF (Revised WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Richgrove WWTF (Revised WDRs)
- Mule Creek State Prison (Amended WDRs)
- Dairy General Order (Revised WDRs)
- E&J Gallo Madera (Revised WDRs)
- E&J Gallo Liberty Winery (New WDRs)
- E&J Gallo Livingston (Revised WDRs)

- Exeter Ivanhoe Citrus (Revised WDRs)
- Farmersville WWTF (Revised WDRs)
- Former Pilkington Glass Manufacturing Facility (Revised WDRs)
- Greenville WWTF (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)

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

REVISION OF GENERAL ORDER FOR EXISTING DAIRIES

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

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

The Central Valley Water Board is working with the Lahontan Water Board to develop similar permits to cover NPS activities on USFS and BLM managed lands with the potential to affect water quality. The Central Valley Water Board's MS4 permit is being used as a model. 6 initial public outreach meetings were held from October through early December 2017. [Project information can be found here:](http://www.waterboards.ca.gov/central_valley_water_board/programs/nps/federal_land/)

(http://www.waterboards.ca.gov/central_valley_water_board/programs/nps/federal_land/).

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

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

ATTACHMENT A

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY Sanitary Sewer Overflow (SSO) Spills – 1 October 2019 through 31 December 2019

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	154	48.9%
Debris-General	51	16.2%
Grease Deposition (FOG)	31	9.8%
Pipe Structural Problem/Failure	18	5.7%
Debris-Rags	9	2.9%
Other (specify below)	9	2.9%
Debris from Lateral	9	2.9%
Vandalism	6	1.9%
Debris-Wipes/Non-Disposables	6	1.9%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	4	1.3%
Operator error	4	1.3%
Pump Station Failure-Controls	3	1.0%
Other (specify)	3	1.0%
Debris from Construction	2	0.6%
Pump Station Failure-Power	2	0.6%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	1	0.3%
Damage by others not related to CS Const/Maint/	1	0.3%
CS Maintenance Caused Spill/Damage	1	0.3%
Pump Station Failure-Mechanical	1	0.3%
Total	315	100%

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 16 August 2019 through 31 December 2019

Office	Category 1	Category 2	Category 3	Total
5F	0	2	13	15
5R	3	0	5	9
5S	21	4	267	292
Total	23	9	283	315

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- 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 October 2019 through 31 December 2019

REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863491	Category 1	257094	Sacramento	Yes	66190	41,631	12/09/19	Vandalism
5S	Sacramento City	City of Sacramento Utilities CS	863925	Category 1	601 J ST	Sacramento	Yes	20900	12,600	12/27/19	Debris-Rags
5S	Delta Diablo	Delta Diablo SD CS	863359	Category 1	West Seventh Street and G ST SSO	Contra Costa	Yes	36740	10,410	12/03/19	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863716	Category 1	257874	Sacramento	Yes	1509	1,457	12/14/19	Root Intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5R	Red Bluff City	Red Bluff CS	863023	Category 1	545 Diamond ave	Tehama	Yes	982	982	11/18/19	Grease Deposition (FOG)
5R	Corning City	Corning Indust/Domestic CS	863665	Category 1	hwy99 W south of South Ave/	Tehama	Yes	500	500	12/19/19	Debris-Rags
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863702	Category 1	257706	Sacramento	Yes	435	347	12/17/19	Debris-General
5S	Placer Cnty Dept of Facility Services	SMD No/ 1 CS	863253	Category 1	1060 Sylvan Glen Place	Placer	Yes	1190	264	11/29/19	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	864041	Category 1	258357	Sacramento	Yes	236	190	12/30/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863297	Category 1	256390	Sacramento	Yes	214	184	11/29/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	862047	Category 1	253058	Sacramento	Yes	395	135	10/01/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863323	Category 1	256416	Sacramento	Yes	145	128	12/01/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863955	Category 1	258246	Sacramento	Yes	162	113	12/28/19	Root Intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	862980	Category 1	255524	Sacramento	Yes	298	104	11/03/19	Vandalism
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863298	Category 1	256422	Sacramento	Yes	107	95	12/01/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863985	Category 1	258364	Sacramento	Yes	126	65	12/30/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863415	Category 1	256960	Sacramento	Yes	67	59	12/07/19	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863976	Category 1	258300	Sacramento	Yes	56	51	12/30/19	Root Intrusion
5S	Modesto City	Modesto CS	862359	Category 1	1509 Moselle Ct Modesto Ca	Stanislaus	Yes	3850	50	10/23/19	Other (specify below)
5S	Sutter Creek City	Sutter Creek CS	861787	Category 1	Cleanout next to Sutter Creek behind 73 Badger Road	Amador	Yes	50	50	10/02/19	Debris-Rags
5S	Vacaville City DPW	Easterly CS	863358	Category 1	127 Brown St/	Solano	Yes	171	26	12/04/19	Other (specify below)
5S	Folsom City - Environmental & Water Resources Dept	City of Folsom CS	863452	Category 1	307 Bridge Street	Sacramento	Yes	175	25	12/06/19	Root Intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	South Placer MUD	South Placer Mud CS	862269	Category 1	6400 Bluevista Ct Rocklin	Placer	Yes	6	2	10/17/19	Root Intrusion
5S	Calaveras Cnty Water District	Copper Cove CS	863719	Category 2	4778 Little John Road Copperopolis Ca 95228-9213	Calaveras	Yes	350000	0	12/20/19	Pipe Structural Problem/Failure
5F	Ca Dept of Corrections & Rehabilitation	Tehachapi Correctional Inst CS	862284	Category 2	California Correctional Institution (CCI) 24900 hWY 202, Tehachapi, Ca/ 93561	Kern	No	5000	0	10/21/19	Other (specify below)
5F	Clovis City (SSO)	Clovis City CS	863193	Category 3	Clovis	Fresno	No	25	0	11/05/19	Debris-Wipes/Non-Dispersables
5F	Fresno County	City of Fresno CS	862946	Category 3	3935 N/ Effie	Fresno	No	801	0	10/28/19	Grease Deposition (FOG)
5F	Merced City	City of Merced CS	863209	Category 3	Trudy Way	Merced	No	180	0	10/14/19	Other (specify below)

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5F	Tuolumne Utilities District	Tuolumne Utilities District CS	862062	Category 3	444 Alpine Ln	Tuolumne	No	20	0	10/07/19	Grease Deposition (FOG)
5F	Tuolumne Utilities District	Tuolumne Utilities District CS	863440	Category 3	Manhole at backside of property, 97 Columbia Way/	Tuolumne	No	80	0	11/07/19	Debris-General
5F	UC Merced	University Of California, Merced CS	862550	Category 3	UC Merced	Merced	No	10	0	10/28/19	Debris-Wipes/Non-Disposables
5F	UC Merced	University Of California, Merced CS	862624	Category 3	The University of CA Merced, Granite Pass Dormitory, 1M2 Pump Room	Merced	No	2	0	11/03/19	Debris-Rags
5F	UC Merced	University Of California, Merced CS	863393	Category 3	The University of CA Merced	Merced	No	4	0	11/06/19	Debris from Construction
5F	US Dept of the Interior Park Service	Yosemite Valley CS	863441	Category 3	Yosemite Lodge laundry pump station	Mariposa	No	20	0	11/13/19	Pump Station Failure-Controls

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5F	USDI National Park Service Sequoia & Kings Canyon	Grant Grove CS	862873	Category 3	Grant Grove Housing Lower Loop - MHF 18	Tulare	No	50	0	10/29/19	Debris-Rags
5F	Winton Water and Sanitary District	Winton Water and Sanitary District CS	862044	Category 3	Myrtle ave at Edy the cr (southside shoulder)	Merced	No	25	0	10/10/19	Grease Deposition (FOG)
5R	Corning City	Corning Indust/Domestic CS	862273	Category 2	hwy 99 lift station force main	Tehama	No	4500	0	10/21/19	Pipe Structural Problem/Fail ure
5R	Corning City	Corning Indust/Domestic CS	862636	Category 2	sunrise way @ hwy 99 W-Corning, Ca/	Tehama	No	1500	0	11/05/19	Other (specify below)
5R	Portola City	Portola CS	862645	Category 3	289 E/ Quincy Ave/	Plumas	No	300	0	11/05/19	Grease Deposition (FOG)
5R	Red Bluff City	Red Bluff CS	862973	Category 3	Manzanita Alley	Tehama	No	65	0	11/17/19	Root Intrusion
5S	Antioch City	City Of Antioch CS	862177	Category 3	1005 Gatter Dr/ Antioch Ca	Contra Costa	No	1	0	10/16/19	Root Intrusion
5S	Antioch City	City Of Antioch CS	862362	Category 3	5001 Crestpark Circle Antioch Ca	Contra Costa	No	26	0	10/17/19	Pipe Structural Problem/Fail ure
5S	Antioch City	City Of Antioch CS	862577	Category 3	1614 Wisner Dr Antioch Ca	Contra Costa	No	6	0	10/31/19	Root Intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Antioch City	City Of Antioch CS	862921	Category 3	4017 Del Favero Dr Antioch CA	Contra Costa	No	467	0	11/15/19	Root Intrusion
5S	Brentwood City	City Of Brentwood CS	862430	Category 3	868 South Estates Dr/	Contra Costa	No	10	0	10/26/19	Grease Deposition (FOG)
5S	Brentwood City	City Of Brentwood CS	863284	Category 3	122 Laurian Court	Contra Costa	No	19	0	11/22/19	Grease Deposition (FOG)
5S	Calaveras Cnty Water District	Douglas Flat/Vallecito CS	862457	Category 3	Vallecito at Parrots Ferry Road	Calaveras	No	250	0	10/29/19	Debris-General
5S	El Dorado Irrigation District	El Dorado Hills CS	862560	Category 3	EDH-2019-10-04	El Dorado	No	360	0	10/17/19	Root Intrusion
5S	El Dorado Irrigation District	El Dorado Hills CS	863007	Category 3	EDH-2019-11-05	El Dorado	No	52	0	11/12/19	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	862833	Category 3	205 Natoma Street	Sacramento	No	30	0	11/04/19	Debris-General
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	862834	Category 3	301 Leidesdorff Street	Sacramento	No	25	0	11/06/19	Root Intrusion
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	862992	Category 3	E/ Bidwell St/ @ Riley St/	Sacramento	No	450	0	11/18/19	Grease Deposition (FOG)

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	863334	Category 3	1346 Young Wo Circle	Sacramento	No	2	0	11/28/19	Root Intrusion
5S	Grass Valley City	Grass Valley City CS	862419	Category 3	281 Glenbrook Dr	Nevada	No	5	0	10/16/19	Root Intrusion
5S	Hidden Valley Lake CSD	Hidden Valley Lake CS	862566	Category 3	16746 Hawks Hill	Lake	No	75	0	10/30/19	Pump Station Failure-Power
5S	Lake Cnty	Nw Regional Waste Disp Fac CS	862030	Category 3	Robinson Rancheria	Lake	No	40	0	10/10/19	Pump Station Failure-Power
5S	Lake Cnty	Nw Regional Waste Disp Fac CS	862085	Category 3	Milemarker 19/21 Highway 20, Lucerne	Lake	No	50	0	10/14/19	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
5S	Lake Cnty	Nw Regional Waste Disp Fac CS	862748	Category 3	Post Mile 19/21 State Route 20	Lake	No	100	0	11/08/19	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
5S	Lake Cnty	Nw Regional Waste Disp Fac CS	862777	Category 3	Post Mile 19/21 State Route 20	Lake	No	500	0	11/12/19	Pipe Structural

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
					south of Lucerne, CA						Problem/Failure
5S	Lake Cnty	Nw Regional Waste Disp Fac CS	862802	Category 3	2325 Lakeshore Blvd, Nice, CA 95464	Lake	No	200	0	11/13/19	Pipe Structural Problem/Failure
5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	862067	Category 3	4635 Hwy/ 29 Lower Lake	Lake	No	150	0	10/13/19	Pump Station Failure-Controls
5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	862232	Category 3	Clearlake Ca 95422	Lake	No	75	0	10/18/19	Pump Station Failure-Controls
5S	Lincoln City	Lincoln CS	862121	Category 2	Waverly Drive and Nicolaus Road 1000 Feet South (Independence Subdivision)	Placer	No	9350	0	10/07/19	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Lincoln City	Lincoln CS	862997	Category 3	2529 Hawk Crest Drive	Placer	No	20	0	11/19/19	Other (specify below)
5S	Manteca City	Manteca CS	862707	Category 3	Sheridan Ave and Powers Alley	San Joaquin	No	323	0	10/22/19	Grease Deposition (FOG)

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Murphys SD	Murphys CS	862250	Category 3	457 Main St Murphys Ca 95247	Calaveras	No	205	0	10/19/19	Debris-General
5S	Oakdale City	Oakdale CS	863223	Category 3	Burchell Hill Park	Stanislaus	No	424	0	11/28/19	Debris-Wipes/Non-Dispersables
5S	Placer Cnty Dept of Facility Services	SMD No/ 1 CS	862231	Category 3	17113 Winchester Club DR/ MEADOW VISTA, CA 95722 / AH7- RL01	Placer	No	412	0	10/11/19	Pipe Structural Problem/Failure
5S	Placer Cnty Dept of Facility Services	SMD No/ 1 CS	863237	Category 3	4045 Richardson Drive	Placer	No	190	0	11/25/19	Grease Deposition (FOG)
5S	Placer Cnty Dept of Facility Services	SMD No/ 3 CS	862233	Category 3	3595 North Lakeshore Blvd, Loomis CA BE3ARV25	Placer	No	514	0	10/11/19	Pipe Structural Problem/Failure
5S	Placerville City	Hangtown Creek CS	862063	Category 3	3140 Benham Ct/	El Dorado	No	250	0	10/13/19	Debris-General
5S	Placerville City	Hangtown Creek CS	862198	Category 3	872 Cottage St/ Placerville Ca/ 95667	El Dorado	No	55	0	10/14/19	Debris-General
5S	Placerville City	Hangtown Creek CS	862926	Category 3	2930 Conrad St/ Placerville Ca/95667	El Dorado	No	30	0	11/09/19	Debris-General
5S	Roseville City	Dry Creek CS	863062	Category 3	421 Pleasant St/	Placer	No	5	0	10/07/19	Pipe Structural

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
											Problem/Failure
5S	Roseville City	Dry Creek CS	863091	Category 3	100 Atkinson St/ Roseville	Placer	No	16	0	10/21/19	Debris-Rags
5S	Roseville City	Dry Creek CS	863198	Category 3	1008 Shearer St/ Roseville	Placer	No	1	0	10/16/19	Root Intrusion
5S	Roseville City	Dry Creek CS	863634	Category 3	520 B St/	Placer	No	77	0	11/23/19	Debris-Rags
5S	Roseville City	Dry Creek CS	863690	Category 3	921 Herbert St/ Roseville	Placer	No	13	0	11/11/19	Root Intrusion
5S	Roseville City	Dry Creek CS	863728	Category 3	137 Cedar St/ Roseville	Placer	No	8	0	11/09/19	Root Intrusion
5S	Roseville City	Dry Creek CS	863729	Category 3	131 Elm St Roseville	Placer	No	9	0	11/19/19	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	862845	Category 2	255169	Sacramento	No	4092	0	11/11/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863125	Category 3	254103	Sacramento	No	109	0	10/27/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863126	Category 3	253452	Sacramento	No	168	0	10/16/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863127	Category 3	253325	Sacramento	No	206	0	10/12/19	Vandalism

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863128	Category 3	254110	Sacramento	No	6	0	10/27/19	Grease deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863129	Category 3	252859	Sacramento	No	48	0	10/05/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863130	Category 3	253313	Sacramento	No	4	0	10/12/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863131	Category 3	253608	Sacramento	No	2	0	10/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863132	Category 3	254077	Sacramento	No	4	0	10/27/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863133	Category 3	253169	Sacramento	No	5	0	10/09/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863134	Category 3	253329	Sacramento	No	26	0	10/13/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863135	Category 3	253599	Sacramento	No	36	0	10/18/19	Other (specify)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863136	Category 3	253764	Sacramento	No	4	0	10/22/19	Debris-General

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863137	Category 3	254050	Sacramento	No	7	0	10/26/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863138	Category 3	254183	Sacramento	No	39	0	10/28/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863139	Category 3	252866	Sacramento	No	2	0	10/05/19	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863140	Category 3	252868	Sacramento	No	3	0	10/06/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863141	Category 3	253003	Sacramento	No	433	0	10/05/19	Vandalism
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863142	Category 3	253322	Sacramento	No	10	0	10/13/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863143	Category 3	254012	Sacramento	No	304	0	10/25/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863144	Category 3	252566	Sacramento	No	6	0	10/01/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863145	Category 3	253411	Sacramento	No	3	0	10/15/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863146	Category 3	253523	Sacramento	No	167	0	10/17/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863147	Category 3	253631	Sacramento	No	8	0	10/20/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863148	Category 3	253657	Sacramento	No	6	0	10/21/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863149	Category 3	254331	Sacramento	No	47	0	10/30/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863150	Category 3	254507	Sacramento	No	446	0	10/31/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863151	Category 3	253112	Sacramento	No	3	0	10/09/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863152	Category 3	253186	Sacramento	No	74	0	10/09/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863153	Category 3	253499	Sacramento	No	5	0	10/16/19	Vandalism
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863154	Category 3	253634	Sacramento	No	13	0	10/20/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863155	Category 3	253784	Sacramento	No	5	0	10/23/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863156	Category 3	253827	Sacramento	No	5	0	10/23/19	Damage by others not related to CS Const/Maint/
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863157	Category 3	253854	Sacramento	No	7	0	10/23/19	Grease deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863158	Category 3	254335	Sacramento	No	7	0	10/30/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863159	Category 3	252883	Sacramento	No	8	0	10/06/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863160	Category 3	253191	Sacramento	No	3	0	10/10/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863161	Category 3	253470	Sacramento	No	5	0	10/16/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863162	Category 3	253806	Sacramento	No	2	0	10/22/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863163	Category 3	254018	Sacramento	No	3	0	10/25/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863164	Category 3	254055	Sacramento	No	8	0	10/26/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863165	Category 3	252846	Sacramento	No	4	0	10/04/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863166	Category 3	252863	Sacramento	No	156	0	10/05/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863167	Category 3	253231	Sacramento	No	9	0	10/10/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863168	Category 3	253316	Sacramento	No	13	0	10/12/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863169	Category 3	253706	Sacramento	No	186	0	10/21/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863170	Category 3	254047	Sacramento	No	15	0	10/26/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863171	Category 3	254082	Sacramento	No	4	0	10/27/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863172	Category 3	254181	Sacramento	No	450	0	10/28/19	Grease deposition (FOG)

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863173	Category 3	253063	Sacramento	No	14	0	10/08/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863174	Category 3	253159	Sacramento	No	42	0	10/08/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863175	Category 3	253498	Sacramento	No	4	0	10/16/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863176	Category 3	252649	Sacramento	No	306	0	10/02/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863177	Category 3	252872	Sacramento	No	2	0	10/06/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863178	Category 3	252885	Sacramento	No	6	0	10/06/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863179	Category 3	253501	Sacramento	No	3	0	10/17/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863180	Category 3	252777	Sacramento	No	13	0	10/03/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863181	Category 3	252888	Sacramento	No	3	0	10/06/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863182	Category 3	253649	Sacramento	No	4	0	10/21/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863183	Category 3	252876	Sacramento	No	9	0	10/06/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863184	Category 3	252961	Sacramento	No	6	0	10/07/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863185	Category 3	253326	Sacramento	No	2	0	10/13/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863186	Category 3	253640	Sacramento	No	3	0	10/20/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863187	Category 3	254072	Sacramento	No	23	0	10/26/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863820	Category 3	255025	Sacramento	No	3	0	11/08/19	Other (specify)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863821	Category 3	255485	Sacramento	No	13	0	11/15/19	Grease deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863822	Category 3	255674	Sacramento	No	106	0	11/19/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863823	Category 3	255769	Sacramento	No	2	0	11/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863824	Category 3	255800	Sacramento	No	6	0	11/20/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863825	Category 3	255944	Sacramento	No	1	0	11/22/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863826	Category 3	255997	Sacramento	No	196	0	11/22/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863827	Category 3	256140	Sacramento	No	4	0	11/25/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863828	Category 3	256354	Sacramento	No	251	0	11/29/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863829	Category 3	254859	Sacramento	No	3	0	11/06/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863830	Category 3	255415	Sacramento	No	10	0	11/14/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863831	Category 3	254639	Sacramento	No	171	0	11/04/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863832	Category 3	254761	Sacramento	No	3	0	11/05/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863833	Category 3	254843	Sacramento	No	24	0	11/06/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863834	Category 3	255076	Sacramento	No	2	0	11/10/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863835	Category 3	255764	Sacramento	No	1	0	11/20/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863836	Category 3	256306	Sacramento	No	1	0	11/27/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863837	Category 3	254948	Sacramento	No	60	0	11/07/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863838	Category 3	255180	Sacramento	No	3	0	11/10/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863839	Category 3	256072	Sacramento	No	36	0	11/25/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863840	Category 3	256271	Sacramento	No	14	0	11/27/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863841	Category 3	254641	Sacramento	No	2	0	11/04/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863842	Category 3	254719	Sacramento	No	5	0	11/04/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863843	Category 3	254806	Sacramento	No	7	0	11/06/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863844	Category 3	255086	Sacramento	No	2	0	11/11/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863845	Category 3	254651	Sacramento	No	6	0	11/05/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863846	Category 3	255750	Sacramento	No	20	0	11/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863847	Category 3	255763	Sacramento	No	16	0	11/20/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863848	Category 3	256348	Sacramento	No	136	0	11/28/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863849	Category 3	255066	Sacramento	No	1	0	11/09/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863850	Category 3	255080	Sacramento	No	26	0	11/11/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863851	Category 3	255315	Sacramento	No	7	0	11/13/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863852	Category 3	255564	Sacramento	No	7	0	11/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863853	Category 3	254999	Sacramento	No	2	0	11/07/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863854	Category 3	255582	Sacramento	No	2	0	11/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863855	Category 3	255762	Sacramento	No	2	0	11/20/19	Operator error
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863856	Category 3	254512	Sacramento	No	7	0	11/03/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863857	Category 3	255634	Sacramento	No	8	0	11/18/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863858	Category 3	255096	Sacramento	No	2	0	11/11/19	Debris-General

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863859	Category 3	255238	Sacramento	No	3	0	11/12/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863860	Category 3	255870	Sacramento	No	10	0	11/21/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863861	Category 3	256135	Sacramento	No	19	0	11/25/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863862	Category 3	256136	Sacramento	No	206	0	11/25/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863863	Category 3	256323	Sacramento	No	9	0	11/27/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863864	Category 3	254638	Sacramento	No	135	0	11/01/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863865	Category 3	255026	Sacramento	No	3	0	11/08/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863866	Category 3	255510	Sacramento	No	40	0	11/16/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863867	Category 3	255695	Sacramento	No	4	0	11/19/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863868	Category 3	255730	Sacramento	No	40	0	11/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863869	Category 3	255822	Sacramento	No	4	0	11/20/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863870	Category 3	256376	Sacramento	No	98	0	11/28/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863871	Category 3	255442	Sacramento	No	14	0	11/15/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863872	Category 3	255734	Sacramento	No	341	0	11/19/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863873	Category 3	256030	Sacramento	No	6	0	11/24/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863874	Category 3	256200	Sacramento	No	3	0	11/26/19	Other (specify)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863875	Category 3	256362	Sacramento	No	20	0	11/29/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863876	Category 3	255783	Sacramento	No	2	0	11/20/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863877	Category 3	255861	Sacramento	No	5	0	11/21/19	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863878	Category 3	255487	Sacramento	No	12	0	11/15/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863879	Category 3	256031	Sacramento	No	12	0	11/24/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863880	Category 3	256054	Sacramento	No	2	0	11/25/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863881	Category 3	256374	Sacramento	No	2	0	11/28/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863882	Category 3	254508	Sacramento	No	4	0	11/03/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863883	Category 3	255098	Sacramento	No	2	0	11/11/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863884	Category 3	255266	Sacramento	No	6	0	11/13/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863885	Category 3	255733	Sacramento	No	44	0	11/19/19	Root intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863886	Category 3	255910	Sacramento	No	6	0	11/21/19	Root intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	863887	Category 3	255929	Sacramento	No	3	0	11/22/19	Root intrusion
5S	Sacramento City	City of Sacramento Combined CS	863285	Category 3	2218 4th Ave	Sacramento	No	3	0	11/20/19	Root Intrusion
5S	Sacramento City	City of Sacramento Combined CS	863290	Category 3	3322 J ST	Sacramento	No	4	0	11/30/19	Pipe Structural Problem/Failure
5S	Sacramento City	City of Sacramento Utilities CS	862542	Category 3	3520 MAHOGANY ST	Sacramento	No	9	0	10/27/19	Other (specify below)
5S	Sacramento City	City of Sacramento Utilities CS	862586	Category 3	7424 Amherst Ave	Sacramento	No	59	0	10/26/19	Root Intrusion
5S	Sacramento City	City of Sacramento Utilities CS	862961	Category 3	781 Woodlake Dr	Sacramento	No	61	0	11/14/19	Root Intrusion
5S	Sacramento City	City of Sacramento Utilities CS	863608	Category 3	6180 Colgate Ct	Sacramento	No	4	0	11/29/19	Root Intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Sacramento City	City of Sacramento Utilities CS	863609	Category 3	4401 SOUTH LAND PARK DR	Sacramento	No	44	0	11/24/19	Root Intrusion
5S	Sacramento Regional CSD	Sacramento Regional CS	862831	Category 3	N50-MH0020A	Yolo	No	5	0	10/30/19	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
5S	Sacramento Regional CSD	Sacramento Regional CS	863079	Category 3	N53-CAV0007A	Sacramento	No	30	0	11/13/19	Operator Error
5S	San Joaquin Cnty Public Works	Lincoln Village Maintenance District CS	863088	Category 3	2700 Ben Holt and 2731 Sheridan	San Joaquin	No	50	0	10/01/19	CS Maintenance Caused Spill/Damage
5S	South Placer MUD	South Placer Mud CS	863101	Category 3	3999 Aitken Dairy Rd	Placer	No	1	0	10/09/19	Root Intrusion
5S	South Placer MUD	South Placer Mud CS	863109	Category 3	5722 Shannon Bay Dr	Placer	No	12	0	10/04/19	Other (specify below)
5S	South Placer MUD	South Placer Mud CS	863197	Category 3	6505 Turnstone Way	Placer	No	14	0	10/23/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	862240	Category 3	233 E/ Banbury Drive, Stockton, California	San Joaquin	No	69	0	10/14/19	Root Intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Stockton City MUD	City of Stockton MUD CS	862340	Category 3	1721 Christina Ave/ Stockton, CA	San Joaquin	No	7	0	10/13/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	862341	Category 3	1423 N/ Center st/ Stockton Ca/	San Joaquin	No	19	0	10/22/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	862343	Category 3	1423 N/ Center St/ Stockton , CA/	San Joaquin	No	36	0	10/21/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	862348	Category 3	3428 S/ Airport Way, Stockton, CA	San Joaquin	No	16	0	10/09/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	862411	Category 3	5709 Montauban Ave Stockton ca/	San Joaquin	No	23	0	10/15/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	862456	Category 3	1024 Earl Ct/ Stockton Ca	San Joaquin	No	1	0	10/16/19	Debris from Construction
5S	Stockton City MUD	City of Stockton MUD CS	862462	Category 3	1612 Michigan Ave Stockton Ca	San Joaquin	No	7	0	10/27/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	862633	Category 3	8828 Aylesford Lane Stockton Ca/	San Joaquin	No	8	0	11/02/19	Root Intrusion

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Stockton City MUD	City of Stockton MUD CS	862652	Category 3	508 w/ Martin Luther King BLVD/ Stockton, Ca/	San Joaquin	No	1	0	10/28/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	862772	Category 3	2642 W Hammer LN	San Joaquin	No	2	0	11/02/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	862813	Category 3	1406 Hazelton Ave Stockton Ca/	San Joaquin	No	24	0	11/09/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	862824	Category 3	212 Paragon Dr Stockton CA	San Joaquin	No	7	0	11/12/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	862857	Category 3	2152 Monte Diablo ave, Stockton, CA 95207	San Joaquin	No	40	0	11/09/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	862930	Category 3	1971 Santa Fe Dr Stockton, CA	San Joaquin	No	21	0	11/10/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	862975	Category 3	1203 E Miner Ave Stockton Ca	San Joaquin	No	21	0	11/05/19	Pipe Structural Problem/Failure
5S	Stockton City MUD	City of Stockton MUD CS	862977	Category 3	2843 E Farmington Rd, Stockton, California	San Joaquin	No	8	0	11/14/19	Pipe Structural Problem/Failure

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Stockton City MUD	City of Stockton MUD CS	862995	Category 3	3503 Horner Ave Stockton Ca	San Joaquin	No	2	0	11/15/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	863000	Category 3	230 N/ Eugenia St Stockton Ca	San Joaquin	No	8	0	11/18/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863003	Category 3	7526 Kelley Dr/ Stockton, CA	San Joaquin	No	15	0	11/20/19	Debris-Wipes/Non-Dispersables
5S	Stockton City MUD	City of Stockton MUD CS	863046	Category 3	7112 Villa Dr Stockton Ca	San Joaquin	No	571	0	11/23/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	863047	Category 3	624 W/ Jefferson St Stockton Ca	San Joaquin	No	1	0	11/21/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	863094	Category 3	702 Macduff AV, Stockton, CA	San Joaquin	No	30	0	11/21/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	863124	Category 3	1511 S Stanislaus ST, Stockton, CA	San Joaquin	No	756	0	11/22/19	Debris-Wipes/Non-Dispersables
5S	Stockton City MUD	City of Stockton MUD CS	863220	Category 3	8932 Aylesford LN, Stockton, CA	San Joaquin	No	58	0	11/23/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	863263	Category 3	2500 Navy Drive, Stockton, CA	San Joaquin	No	643	0	11/23/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863294	Category 3	8412 Gallowway CT/ B, Stockton, CA	San Joaquin	No	51	0	11/27/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	863319	Category 3	734 Howard St Stockton, CA	San Joaquin	No	4	0	11/29/19	Debris-General

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	Stockton City MUD	City of Stockton MUD CS	863449	Category 3	928 S Madison St Stockton CA	San Joaquin	No	110	0	11/28/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863458	Category 3	2149 S California street, Stockton, CA	San Joaquin	No	12	0	11/27/19	Pipe Structural Problem/Failure
5S	Vacaville City DPW	Easterly CS	862333	Category 3	951 Merchant St	Solano	No	66	0	10/19/19	Grease Deposition (FOG)
5S	Vacaville City DPW	Easterly CS	862655	Category 3	105 Aegean Way	Solano	No	50	0	11/01/19	Debris-General
5S	Vacaville City DPW	Easterly CS	862990	Category 3	101 Sunnyglen Ct	Solano	No	17	0	11/13/19	Debris-Rags
5S	Vacaville City DPW	Easterly CS	863252	Category 3	112 Green Tree Dr	Solano	No	16	0	11/27/19	Pipe Structural Problem/Failure
5S	Waterford City	Waterford CS	863270	Category 3	319 N Reinway Ave	Stanislaus	No	30	0	11/18/19	Grease Deposition (FOG)
5S	West Sacramento City	West Sacramento CS	862562	Category 3	644 Kagle Dr	Yolo	No	6	0	10/04/19	Grease Deposition (FOG)
5S	West Sacramento City	West Sacramento CS	862563	Category 3	1012 Carrie St	Yolo	No	19	0	10/15/19	Grease Deposition (FOG)
5S	West Sacramento City	West Sacramento CS	862564	Category 3	605 James St	Yolo	No	13	0	10/21/19	Debris-General

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REGION	AGENCY	COLLECTION SYSTEM	SSO EVENT ID	Spill Category	SPILL LOCATION	COUNTY	Did spill Reach Surface waters (Yes/No)	Spill Volume	Volume Reached Surface Waters (Gallons)	START_DT	Cause of Spill
5S	West Sacramento City	West Sacramento CS	862571	Category 3	608 Todhunter Ave	Yolo	No	129	0	10/25/19	Grease Deposition (FOG)
5S	West Sacramento City	West Sacramento CS	863493	Category 3	1825 Proctor Ave	Yolo	No	15	0	11/23/19	Grease Deposition (FOG)
5S	Woodland City	City of Woodland CS	862649	Category 3	622 Second St	Yolo	No	4	0	10/01/19	Debris-General
5S	Woodland City	City of Woodland CS	862797	Category 3	1511 Archer Dr	Yolo	No	6	0	10/17/19	Root Intrusion
5S	Woodland City	City of Woodland CS	863064	Category 3	514 Greenwood Dr	Yolo	No	4	0	10/18/19	Root Intrusion
5S	Woodland City	City of Woodland CS	863065	Category 3	224 Freeman St	Yolo	No	23	0	10/20/19	Root Intrusion

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5S	Woodland City	City of Woodland CS	863313	Category 3	96 Ashley Ave/	Yolo	No	97	0	11/06/19	Root Intrusion
5S	Woodland City	City of Woodland CS	863344	Category 3	924 Beamer St/	Yolo	No	3	0	11/24/19	Root Intrusion
5F	Atwater City	Atwater CS	863991	Category 3	Mission Way	Merced	No	450	0	12/25/19	Pump Station Failure-Mechanical
5F	Fresno County	Fresno Co 41-Shaver Lake CS	863586	Category 2	Waterworks 41	Fresno	No	5000	0	12/16/19	Vandalism
5F	UC Merced	University Of California, Merced CS	863579	Category 3	UC Merced SE1 Lab Bldg SE Corner SS floor drains (3)	Merced	No	20	0	12/17/19	Debris-General
5R	Chico City	Chico CS	863417	Category 2	1582 Vallombrosa Ave	Butte	No	1203	0	12/06/19	Debris-General
5R	Shasta Lake City	Shasta Lake CS	863456	Category 3	4300 Pine Grove Ave	Shasta	No	70	0	12/10/19	Air Relief Valve (ARV)/Blow-Off Valve

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											(BOV) Failure
5S	Antioch City	City Of Antioch CS	863419	Category 3	3315 Gentrytown Dr Antioch Ca	Contra Costa	No	39	0	12/05/19	Grease Deposition (FOG)
5S	Antioch City	City Of Antioch CS	863540	Category 3	2900 Camby Rd Antioch CA	Contra Costa	No	31	0	12/14/19	Root Intrusion
5S	Antioch City	City Of Antioch CS	863543	Category 3	2 Brisdale Pl Antioch Ca	Contra Costa	No	4	0	12/15/19	Root Intrusion
5S	California Department of Corrections and Rehabilitation	Deuel Vocational Institution CS	863784	Category 3	J Building Manhole	San Joaquin	No	300	0	12/25/19	Debris-General
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	863631	Category 3	Manseau Park	Sacramento	No	60	0	12/04/19	Grease Deposition (FOG)
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	863684	Category 3	365 Canyon Falls Drive	Sacramento	No	54	0	12/08/19	Grease Deposition (FOG)
5S	Folsom City - Environmental & Water Resources Dept	City Of Folsom CS	863710	Category 3	1324 Tippens Way	Sacramento	No	5	0	12/20/19	Other (specify below)
5S	Ione City	City Of Ione CS	863651	Category 3	306 S/ Church St/ Ione,CA 95640	Amador	No	95	0	12/19/19	Debris from Lateral

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5S	Lake Cnty	Southeast Regional Waste Disp Fac CS	863354	Category 3	clearlake	Lake	No	500	0	12/05/19	Grease Deposition (FOG)
5S	Manteca City	Manteca CS	864139	Category 3	629 San Juan St	San Joaquin	No	675	0	12/04/19	Grease Deposition (FOG)
5S	Roseville City	Dry Creek CS	863785	Category 3	1005 Circuit Dr/ Roseville	Placer	No	11	0	12/03/19	Root Intrusion
5S	Roseville City	Dry Creek CS	863802	Category 3	301 Bitner Roseville	Placer	No	33	0	12/15/19	Root Intrusion
5S	Roseville City	Dry Creek CS	863888	Category 3	501 Brookwood Dr/ Roseville	Placer	No	20	0	12/16/19	Root Intrusion
5S	Roseville City	Dry Creek CS	863893	Category 3	1940 Inglis Wy/ Roseville	Placer	No	13	0	12/27/19	Root Intrusion
5S	Roseville City	Dry Creek CS	863909	Category 3	276 Spyglass Hill, Roseville	Placer	No	3	0	12/13/19	Debris-Rags
5S	Sacramento City	City of Sacramento Utilities CS	863610	Category 3	7536 EDDYLEE WAY	Sacramento	No	52	0	12/09/19	Grease Deposition (FOG)
5S	San Andreas SD	San Andreas CS	863889	Category 3	1233 Calaveritas Rd	Calaveras	No	50	0	12/25/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	863434	Category 3	643 W/ Vine st/ Stockton, CA/	San Joaquin	No	64	0	12/06/19	Root Intrusion

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5S	Stockton City MUD	City of Stockton MUD CS	863454	Category 3	94 W Noble st/ Stockton, CA	San Joaquin	No	108	0	12/09/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863464	Category 3	427 W Jefferson st/ Stockton CA/	San Joaquin	No	24	0	12/09/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	863480	Category 3	2107 West In/ Stockton, CA/	San Joaquin	No	13	0	12/09/19	Debris-Wipes/Non-Dispersables
5S	Stockton City MUD	City of Stockton MUD CS	863490	Category 3	1815 Princeton AV/ Stockton, CA/	San Joaquin	No	13	0	12/09/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863494	Category 3	329 E/ Cleveland Street Stockton Ca	San Joaquin	No	7	0	12/03/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863497	Category 3	348 Olympic Ci Stockton Ca	San Joaquin	No	12	0	12/10/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863518	Category 3	2147 S/ Yosemite St/, Stockton, California	San Joaquin	No	32	0	12/11/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	863587	Category 3	811 Pio Pica AV/ Stockton, CA/	San Joaquin	No	52	0	12/14/19	Root Intrusion

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5S	Stockton City MUD	City of Stockton MUD CS	863590	Category 3	2359 Waterloo Rd Stockton Ca	San Joaquin	No	62	0	12/16/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	863616	Category 3	3435 Belleview ave	San Joaquin	No	23	0	12/15/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	863691	Category 3	120 W/ Harding Way Stockton Ca	San Joaquin	No	6	0	12/21/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	864020	Category 3	9235 Cherbourg Way Stockton Ca	San Joaquin	No	7	0	12/23/19	Debris from Lateral
5S	Stockton City MUD	City of Stockton MUD CS	864022	Category 3	8037 Bernay Dr Stockton Ca	San Joaquin	No	25	0	12/24/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	864026	Category 3	104E/ Longview Dr/ Stockton Ca	San Joaquin	No	25	0	12/24/19	Grease Deposition (FOG)
5S	Stockton City MUD	City of Stockton MUD CS	864028	Category 3	129 w/ Wyandotte st/, Stockton, California	San Joaquin	No	11	0	12/23/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	864111	Category 3	2028 Del Rio AV, Stockon, CA/	San Joaquin	No	7	0	12/23/19	Root Intrusion

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5S	Stockton City MUD	City of Stockton MUD CS	864123	Category 3	1870 Lomita Ave Stockton Ca	San Joaquin	No	6	0	12/29/19	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	864126	Category 3	8357 Alexa Ct Stockton Ca/	San Joaquin	No	7	0	12/31/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	864127	Category 3	1550 N/ Commerce st/, Stockton, CA	San Joaquin	No	3	0	12/23/19	Root Intrusion
5S	Stockton City MUD	City of Stockton MUD CS	864132	Category 3	426 Don Carlos AV, Stockton, CA	San Joaquin	No	3	0	12/31/19	Root Intrusion
5S	Turlock City	Turlock CS	863379	Category 2	Tuolumne Trunk Line	Stanislaus	No	13464	0	12/05/19	Pipe Structural Problem/Fail ure