

**EXECUTIVE OFFICER'S REPORT
17-18 FEBRUARY 2022**

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

Patrick Pulupa, Executive Officer



ITEMS IN THIS REPORT

SUCCESS STORIES	3
STAFF RECOGNITION.....	11
ENFORCEMENT.....	15
SANITARY SEWER OVERFLOWS (SSOs) AND COMPLAINTS	20
DELTA ACTIVITIES	27
TMDL BASIN PLANNING	30
SALINITY AND CV-SALTS	33
SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP).....	35
CYANOBACTERIA BLOOMS UPDATE.....	36
FOREST ACTIVITIES PROGRAM.....	37
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).....	39
OIL FIELDS.....	40
IRRIGATED LANDS REGULATORY PROGRAM (ILRP)	47
NON-POINT SOURCE (NPS).....	55
CANNABIS.....	56
GRANTS	58
PUBLIC/DISADVANTAGED COMMUNITY/ TRIBAL OUTREACH	61
GENERAL UPDATES TO THE BOARD	62
PERSONNEL AND ADMINISTRATION.....	64
FUTURE BOARD ACTIVITIES	68
ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY.....	71

SUCCESS STORIES

SITE CLEANUPS

UNDERGROUND STORAGE TANKS – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

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

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

SACRAMENTO

CHEVRON NO. 96397 1600 SISK ROAD MODESTO, STANISLAUS COUNTY

The Site is an active Chevron-branded commercial fueling station. A limited Phase I/II investigation conducted in October 1998 resulted in the removal of five USTs from the northwest corner of the property. Along with the USTs, Chevron removed two dispenser islands and associated piping, three hydraulic hoists, and an oil-water separator. Based on the investigation and UST removals, Chevron reported an unauthorized petroleum release. During UST removal in October 1998, Chevron excavated **1,960 tons** of hydrocarbon-impacted soil from beneath the former product lines. In June 2011, Arcadis installed an SVE/AS system and began operating it in March 2018. The system removed **9,716 pounds** of hydrocarbons prior to permanent shutdown in January 2020. In the June 2020 System Evaluation, Arcadis concluded the Site meets the criteria for closure under the *Low-Threat Closure Policy*. Central Valley Water Board staff concurred. Between September and November 2021, Arcadis oversaw monitoring well destruction and SEV/AS system decommissioning and removal. Staff closed the case on 10 January 2022. (MJD)

**GOLDEN EAGLE
23987 HIGHWAY 99, ACAMPO, SAN JOAQUIN COUNTY**

The Site is in the northeast corner of the Lodi Airport property and was formerly used as an aircraft fueling area. In July 1999, the airport removed three aviation fuel USTs (one 5,000-gallon and two 4,000-gallon) from the Site along with associated product piping. During removal, the county inspector observed a “homemade patch” to the piping approximately 60 feet south of the USTs. Soil samples in this area contained the highest petroleum hydrocarbon concentrations. To assess the extent of the release, the airport advanced 14 soil and groundwater borings, installed four groundwater monitoring wells, and installed 18 soil gas probes/wells. While no active remediation was performed at the Site, the conditions met the General and Media-Specific criteria for case closure under the *Low Threat Closure Policy*. Central Valley Water Board staff closed the case on 24 December 2021. (AMB)

**7-ELEVEN STORE #16459
2255 EAST GERARD AVENUE, MERCED, MERCED COUNTY**

The Site is currently an active 7-Eleven convenience store and was a former petroleum fueling facility. On 23 September 1992, an estimated 2,900 gallons of unleaded gasoline was released from a hole in a UST at the Site. Between September 1992 and October 1993, 7-Eleven removed approximately **2,000 gallons** of gasoline and 600 gallons of gasoline impacted groundwater through soil vapor extraction remediation. Between December 1996 and August 1997, Fluor Daniel GTI, Inc. used two air compressors to increase biodegradation of petroleum hydrocarbons. The county closed the first release case in 1998. In April and May 2014, Stantec Consulting Services Inc. (Stantec) oversaw the excavation of three 12,000-gallon single walled fiberglass USTs and associated dispensers and piping. Due to the deterioration and condition of the USTs they were crushed in place and then excavated and removed from the Site along with surrounding impacted soil. Stantec reported a second release following the UST removal. Between May 2015 and March 2019, Stantec installed four additional groundwater monitoring wells and advanced seven soil borings. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable and that the Site meets *the Low-Threat Closure Policy*. Central Valley Water Board staff concurred. Stantec destroyed the monitoring wells in October 2021. Central Valley Water Board staff closed the case on 17 December 2021. (BJL)

**ALLEGHANY MAINTENANCE STATION
514 MINERS STREET ALLEGHANY, SIERRA COUNTY**

The Site is an active Sierra County transportation facility that contains two shop buildings and active aboveground petroleum storage tanks for vehicle refueling. In July 1999, Avalex observed the removal of two USTs from the south side of the property and two USTs from the center of the property. An unauthorized petroleum release was reported in July 1999 due to impacted soil. In June 2001, during an investigation, Avalex discovered evidence that two additional historic petroleum USTs had been removed

from the north side of the Site circa 1975. In September 2008, Avalex coordinated the excavation of **950 tons** of petroleum-impacted soil from around the two former USTs in the center of the Site. In November 2009, Avalex coordinated the excavation of **20 tons** of impacted soil from the historic USTs' former fuel lines on the north side of the Site. Seasonally between April 2010 and June 2017, Avalex operated an SVE remediation system around the two former USTs on the south side of the property and around the two historic USTs on the north side of the property. The system removed **3,500 pounds** of vapor-phase petroleum. During investigations between 2003 and 2008, Avalex discovered an abandoned mine drift beneath the Site, the buried former entrance to the mine drift, and evidence of petroleum-impacted groundwater exiting the mine drift. Avalex monitored and sampled the mine portal surface water discharge at sample location S-1. Since June 2018, the concentrations of MTBE in S-1 samples have decreased to below secondary water quality objectives. In the 6 November 2020 Closure Report, Avalex concluded that the Site meets the criteria for closure under the *Low-Threat Closure Policy*. Central Valley Water Board staff concurred with Avalex. Avalex destroyed the monitoring and remediation wells in September 2021. Central Valley Water Board staff closed the case on 24 December 2021. (MJD)

YOSEMITE JUNCTION 7500 HIGHWAY 120 JAMESTOWN, TUOLUMNE COUNTY

The Site is currently occupied by a former gasoline service station and mini mart. During UST relining in January 1999, American Geological Services, Inc. (AGS) collected soil samples near the ends of three USTs and from beneath the fuel dispenser island. Soil samples collected by AGS indicated a release of petroleum hydrocarbons from the dispenser. In November 2003, AGS removed two 10,000-gallon and one 4,000-gallon USTs from the Site. AGS excavated and removed **605 cubic yards** of impacted soil to depths of 12 feet below ground surface. In February 2008, AGS excavated an additional 737 cubic yards of soil and disposed of **414 cubic yards** of impacted soil and 1,380 gallons of impacted groundwater from the excavation. E2C estimated the excavated soil contained **108 pounds** of petroleum. While petroleum hydrocarbons remain beneath the Site, groundwater sampling data show that the impact to groundwater is defined and stable, and that the Site meets the *Low-Threat Closure Policy*. E2C requested case closure in November 2020. Central Valley Water Board staff concurred. E2C destroyed the monitoring wells in October 2021. Central Valley Water Board staff closed the case on 24 December 2021. (BJL)

MERCED CENTER PARKING GARAGE 1801 WEST 18TH STREET, MERCED, MERCED COUNTY

The Site is currently a three-story parking garage with office lease space on the first floor. The Site previously contained two separate sets of USTs, one located on the eastern corner of the parcel and the other located on the western edge of the current parking garage. The USTs were removed from the Site prior to investigations. In January 2006, Condor Earth Technologies, Inc. encountered petroleum hydrocarbon impacted soil during geotechnical sampling of neighboring parcels to the Site. In 2006, Kleinfelder operated an SVE remediation system, which removed **4,900 pounds** of

vapor-phase petroleum hydrocarbons from the subsurface. Between 2014 and 2019, Provost & Pritchard Consulting Group (P&P) operated a separate SVE system which removed **10,200 pounds** of vapor-phase petroleum hydrocarbons. P&P concluded that groundwater impacts are defined and stable and that the Site meets the *Low-Threat Closure Policy*. Central Valley Water Board staff concurred with case closure. P&P destroyed the monitoring wells in January 2021. Central Valley Water Board staff closed the case on 29 November 2021. (BJL for MSP)

NEWARK GROUP INC. CASE #2
800 CHURCH STREET, STOCKTON, SAN JOAQUIN COUNTY

The Newark investigation area has two distinct focus areas: The B-7 area in the southwest corner of the Site, and the B-14/B-15 area in the southeast corner. In August 1995, Newark removed two 4,000-gallon diesel USTs from the B-7 focus area. In January 2001, Newark removed three #6 fuel oil tanks (two 4,000-gallon USTs, and one 250,000-gallon above ground storage tank [AST]) and about 700 feet of product piping from the B-14/B-15 focus area. Between 2005 and 2017, consultants installed/advanced a total of 11 groundwater monitoring wells, 32 soil gas probes, and 24 soil and groundwater borings on and around the Site property to assess the Site releases. Newark did not perform active remediation. AECOM determined that groundwater impacts are defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions meet the General and Media-Specific criteria for case closure under the *Low Threat Closure Policy*. AECOM destroyed the monitoring wells in September 2021 and removed the waste in October 2021. Central Valley Water Board staff closed the case on 24 November 2021. (AMB)

BEACON 3636
1400 YOSEMITE PARKWAY, MERCED, MERCED COUNTY

The Site is an active retail fuel station. In 1985, the operator identified a release after installing groundwater monitoring wells. Between 1985 and 1991, consultants operated a product recovery system and a bioremediation system and injected hydrogen peroxide into the subsurface. In 1989, Beacon removed **600 cubic yards** of impacted soil. Between 1992 and 2015, Beacon inconsistently operated soil vapor extraction systems that in total removed **30,778 pounds** of vapor-phase hydrocarbons. The remaining petroleum constituents are unlikely to pose a threat to human health or further impact waters of the State as they attenuate. The Site meets the criteria for case closure as outlined in the *Low-Threat Closure Policy*. Central Valley Water Board staff concurred with Horizon's recommendation for case closure. Horizon destroyed the monitoring wells in September 2018. Central Valley Water Board staff closed the case on 24 November 2021 (VJF for MSP).

SUGAR BOWL FUEL
22082 DONNER PASS ROAD, SODA SPRINGS , NEVADA COUNTY

The Sugar Bowl Fuel site is an active fueling facility in a mixed-use area of commercial and residential properties of Soda Springs. The Responsible Party began conducting environmental

investigation and monitoring at the Site in 2012 in association with a property transaction. Soil and groundwater samples collected as part of a property investigation contained relatively low levels of petroleum hydrocarbon compounds. The source of the petroleum compounds was later identified as a leak from the Site's UST system. Following removal of that system, a new dual-wall, multi-compartment above ground storage tank system was installed to provide fuel to the re-developed facility. Based on data and information obtained throughout the course of environmental investigation and monitoring activities performed at the Site since 2012, under current and reasonably anticipated, near-term future scenarios, impacts to groundwater associated with the Site, pose a low threat to human health and the environment. The Executive Officer closed the case on January 10, 2022. (JH)

NO FURTHER ACTION REQUIRED, SHERMAN ISLAND DEHYDRATOR STATION 1, PACIFIC GAS AND ELECTRIC COMPANY, SACRAMENTO COUNTY

In December 2021, the Federal Cleanup Unit issued a No Further Action Required determination for the Pacific Gas and Electric (PG&E) Sherman Island Dehydrator Station 1 (Site). Operations at the Site began in 1963 and PG&E utilized the Site to remove condensate liquids from natural gas and odorize natural gas prior to commercial distribution. Subsurface impacts from petroleum hydrocarbons, likely associated with previous Site operations, were identified during the initial site assessments between 1997 to 1998. In addition to the initial site assessments, site investigation and remediation activities included an additional site characterization in 2001 and soil delineation investigation in 2017. Remedial actions at the Site primarily included the excavation of approximately 1,053 tons of contaminated soil in 2018. Groundwater monitoring also occurred at the Site pursuant to a Monitoring and Reporting Program between 2001 to 2019. As a condition of closure and due to residual petroleum impacts remaining on Site, PG&E agreed to place a land use covenant on the property to protect human health and the environment. To further mitigate exposure risks to residual impacts remaining off-Site, Central Valley Water Board staff coordinated with the adjacent property owner, the California Department of Water Resources (DWR), to obtain a signed acknowledgement letter. This letter assures DWR's cooperation with PG&E and the Central Valley Water Board should soil disturbance be necessary in the impacted area. PG&E still owns the property and will continue to operate the Site as a natural gas transmission and odorization facility.

NO FURTHER ACTION DETERMINATION WITH LAND USE COVENANT, WESTERN WOOD TREATING LLC, 1492 CHURCHILL DOWNS AVENUE, WOODLAND, YOLO COUNTY

In the 1980's, Western Wood Treating LLC (WWT) discovered a chromated copper arsenate (CCA) release through a French drain at their wood treating facility in Woodland. Upon discovery, WWT excavated the subsurface French drain and surrounding soils, and redesigned their stormwater and industrial wastewater handling practices. Additional assessment revealed elevated hexavalent chromium concentrations under the former drip pad. From the late 1980s to early 2000s, WWT extracted thousands of gallons of hexavalent chromium-laden groundwater, daily. To address remaining hexavalent chromium in soil and groundwater, WWT employed calcium polysulfide recirculation and targeted glucose injections to reduce hexavalent

chromium into the less toxic and less mobile trivalent form. After the final glucose injection in 2019, WWT monitored hexavalent chromium and arsenic concentrations to ensure cleanup goals were met. A Land Use Covenant was recorded in 2020 to restrict certain site uses and require maintenance of impermeable surfaces at the site. A conditional No Further Action determination was made on 29 June 2021. Following the destruction of the remaining 25 monitoring wells in October of 2021, a No Further Action was issued on 23 November 2021.

CONDITIONAL NO FURTHER ACTION DETERMINATION, PG&E JACKSON SERVICE CENTER SITE CESSPOOL INVESTIGATION, 12626 JACKSON GATE ROAD, JACKSON, AMADOR COUNTY

In 2007, the PG&E Jackson Service Center encountered a subsurface structure (referred to as the cesspool) while installing an access ramp for their customer service office. The cesspool contained stagnant water and sediment with elevated levels of total petroleum hydrocarbons (TPH), arsenic, and lead. Contaminated water and sediment were removed from the former cesspool, which was backfilled with crushed rock topped with concrete. Groundwater was found to be impacted by TPH as diesel (TPH-d) and arsenic in a limited area around the former cesspool. Groundwater monitoring has demonstrated that TPH-d has decreased to below water quality objectives and arsenic shows a generally decreasing trend with residual concentrations near background concentrations. A conditional No Further Action determination was made on 10 January 2022 and a final No Further Action will be granted once PG&E submits a monitoring well destruction report.

FRESNO

**SALWASSER 2014 TRUST
415 SOUTH DICKENSON AVENUE, FRESNO, FRESNO COUNTY**

The Salwasser 2014 Trust Site is agricultural land, occupied by a residence and two shop buildings. In November 2020, one 1,500-gallon gasoline UST, one 2,500-gallon diesel UST, and one 500-gallon UST were removed. Soil investigation indicated petroleum contamination in concentrations up to 250 mg/kg. TPHd extended to a depth of approximately 25 feet bgs and 20 feet laterally. Significant hydrocarbon source mass was not present. Groundwater is estimated to be approximately 95 feet bgs and should not be affected by this release. The low concentrations of contaminants are expected to attenuate naturally and not affect human health and safety or the environment. Staff closed the case on 15 December 2021. (Micheale Easley)

**WASHINGTON ELEMENTARY SCHOOL
1599 5TH STREET, MENDOTA, FRESNO COUNTY**

The Site formerly contained a school bus yard and maintenance facility. One 1,000-gallon UST, one 1,000-gallon diesel UST, and one 5,000-gallon diesel UST were removed in July 1988, under local agency direction. Elevated concentrations of gasoline and diesel constituents were encountered beneath the former USTs.

Numerous phases of investigation activities were conducted onsite and surrounding properties from 1990 through 2018. Approximately 750 cubic yards of impacted soils containing an undetermined hydrocarbon mass were removed in August 2006. Groundwater monitoring, conducted from September 1990 through June 2019, indicated dissolved petroleum concentrations in wells at or near the source area, and the source area well initially contained free product. Ozone injection and soil vapor extraction (SVE) were conducted during 2018. Approximately 240 pounds of ozone was injected and the SVE system removed approximately 328 lbs. as TPHg. In October 2019, the Central Valley Water Board denied a case closure request since the extent of the groundwater contaminant plume was not defined. The State Water Board determined that the UST case met the General and Media-Specific criteria in the *Low-Threat Closure Policy* and ordered case closure on 22 April 2021. Central Valley Water Board Staff found that groundwater monitoring and remediation wells were destroyed in accordance with local and State regulations and investigation derived waste was removed and properly managed. The State Water Board issued a uniform closure letter on 17 December 2021. (Khalid Durrani)

**XPRESS FOOD MART
5790 NORTH FRESNO STREET, FRESNO, FRESNO COUNTY**

Xpress Food Mart is currently a commercial fueling station and convenience store. In March 2020, as part of a site upgrade, three 12,000-gallon USTs, product piping, and dispensers were replaced. Gasoline constituents were detected in soil samples from beneath the USTs. Soil investigation during July 2021 indicated the presence of petroleum hydrocarbons in low concentrations to approximate depths of 30 feet bgs. Groundwater is estimated to be at approximately 145 feet bgs. The consultant estimated that approximately 2.1 pounds of petroleum constituents remained in soil and recommended closure. The low concentrations of contaminants are expected to attenuate naturally and not affect human health and safety or the environment. Staff closed the case on 15 December 2021. (Micheale Easley)

REDDING

FORMER ATTAINABLE AUTO, CASE 450334, SHASTA COUNTY

In April 2007, three 5,000-gallon USTs and one 250-gallon waste-oil UST were removed from the Site. Initial excavation removed contaminated soil beneath product pipelines, a dispenser island, and tank pits. Subsequent soil sampling within the south wall of the waste-oil tank pit detected moderate concentrations of gasoline and diesel. In February 2016, three test borings were installed to a depth of 15 feet bgs around the perimeter of the waste-oil tank. Investigation results indicate that residual contaminant mass in soil is shallow (less than 8 feet bgs). In October 2019, three monitoring wells were installed. During well installation, approximately 34.5 cubic yards of impacted soil was removed offsite. Two quarters of groundwater sampling were conducted. Benzene and MTBE concentrations were below the Low-Threat Closure Policy criteria. In February 2021, three soil-vapor probes were installed. One soil vapor contained detectable levels of BTEX and naphthalene, but no MTBE. Results were inputted into the EPA online Vapor

Intrusion Screening Level calculator and indicate there is no risk to future occupants of a commercial building. Staff closed the case under Low-Threat Closure Policy in December 2021. (Melissa Buciak)

UNION PACIFIC RAILROAD COMPANY, FORMER ENGINE HOUSE, CASE 4050003, TEHAMA COUNTY

Historical site operations included locomotive refueling and maintenance and railcar loading/unloading. Facilities were removed in 1969. During debris removal in April 2016, UPRR contractors encountered soil with petroleum odor and staining. The site previously contained an engine house and machine shop, an oil sump, two oil/water separators, and two above-ground tanks. The area identified to have surface staining was located southeast of the former engine house. Between 2016 and 2019, over 200 soil samples were collected from 37 borings from depths ranging from less than one foot to 45 feet bgs. Residual contamination is limited to the area near the former sump. Significant attenuation of diesel and motor oil occurs with depth below 30 feet bgs. The lateral and vertical extent of soil is adequately defined. Five groundwater monitoring wells were installed in December 2017 which was followed by four quarters of monitoring and analyzed for diesel and motor oil with and without silica gel cleanup. In September 2020, approximately 5 cubic yards of soil was removed around the former sump. It is estimated that approximately 26 pounds of diesel was removed. In July 2021, a covenant and environmental restriction was made between UPRR and the Central Valley Water Board for a portion of APN 064-010-001-000. In November 2021, Staff closed the case with a deed restriction. (Melissa Buciak)

NORTH STATE HULLING, CASE SLT5R1118, BUTTE COUNTY

The Site is a nut hulling and shelling facility in Chico. In April 2021 the property owner collected soil samples in the vicinity of a former diesel above-ground storage tank (AST) as part of a due diligence Environmental Site Assessment (ESA). Elevated concentrations of diesel were detected in the soil samples. In May 2021, Butte County Environmental Health Department referred the case to the Central Valley Water Board. The Site was evaluated for case closure under the Low-Threat Closure Policy. Contaminated soils were excavated and disposed of off-site at an approved disposal facility. Approximately 409 pounds of petroleum hydrocarbons were removed by excavation activities. The AST has been removed from the site and no soil contamination remains at the site. Given these conditions, Central Valley Water Board staff determined the Site meets the Low-Threat Closure Policy for case closure. Staff closed the case in December 2021. (Bill Bergmann)

IRRIGATED LANDS REGULATORY PROGRAM

IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS

Under the Irrigated Lands Regulatory Program (ILRP), a management plan is triggered when water samples from a monitoring site are tested and a constituent has two or

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

SACRAMENTO VALLEY WATER QUALITY COALITION

On 14 January 2022, the Executive Officer approved completion of a *Selenastrum capricornutum* management plan in Ulatis Creek for the Sacramento Valley Water Quality Coalition (Coalition).

The implemented management plan successfully eliminated a water quality problem caused or influenced by discharge of agricultural pollutants into surface receiving waters. The Coalition held multiple member and pesticide applicator meetings to provide general and site-specific guidance regarding practices to protect water quality. Examples of practices implemented by growers include follow label instructions, permit conditions, and PCA recommendations; avoid surface water when spraying; monitor wind and rain conditions; lengthen time between pesticide application and irrigation; and increase soil water penetration with amendments. Toxicity test results showed that the water quality objective is being met, demonstrating the effectiveness of implemented practices.

STAFF RECOGNITION

SUSTAINED SUPERIOR ACCOMPLISHMENT AWARD

At the 9 December 2021 Board Meeting, Executive Officer Pulupa presented the Sustained Superior Accomplishment Award to the following staff:

**EMPLOYEES: CHRISTINE CROYLE, REBECCA ASAMI, CLINT SNYDER,
JONATHAN MEURER, LYNN COSTER**

UNIT: Multiple

LOCATION: Multiple

TITLE: Multiple

SUPERVISOR: Multiple

Throughout the past two years, the Board's Strategic Planning Committee, composed of staff selected through a competitive process involving multiple programs and all three offices, has diligently worked with the Board, Board's senior management, Board staff members, and a vast multitude of stakeholders to craft a Strategic Vision, A Mission Statement, a set of Shared Beliefs, and a Strategic Plan to guide the Central Valley Water Board's 19 water quality programs for the next 5-7 years.

The Strategic Planning Committee was able to pivot midway through the process to maintain progress on the development of a Strategic Plan, despite the difficulties imposed by the COVID-19 pandemic. Members of the Team were able to formulate a strategy that included multiple presentations before the Board, multiple opportunities for the public to provide input (including a public forum drawn together on exceptionally short notice), multiple surveys sent to staff and stakeholders, and a drafting process to arrive upon a Strategic Plan that the Board and the Board's management were all amenable to.

The collegiality and diligence of this team make them highly deserving of this award.

SUPERIOR ACCOMPLISHMENT AWARDS

At the 9 December 2021 Board Meeting, Executive Officer Pulupa presented Superior Accomplishment Awards to the following staff:

EMPLOYEE: GIRMA GETACHEW

UNIT: Confined Animal Facilities Unit

LOCATION: Rancho Cordova Office

TITLE: Environmental Scientist

SUPERVISOR: Daniel Gamon

This Superior Accomplishment Award (SAA) is awarded to Dr. Girma Getachew (Girma), whose incredible dedication in so many areas have greatly contributed to the Confined Animal Facilities Unit's success. Girma's scientific knowledge as a certified crop advisor and PhD soil agronomist, sets the bar for excellence. He is a key role model and great source of knowledge for the unit. His attention to detail, in-depth understanding of how dairies operate, and unique skills as an agronomist are instrumental to the team's successful regulatory oversight.

Due to his vast experience in the confined animal facilities regulatory program, he can effectively mentor new staff in their review of nutrient and waste management plans. As an agronomist, he provides invaluable input during the review of nutrient management plans. Girma's mentoring skills and on the job training to has enhanced other staff's professional growth and helped the program gain the respect of the industry.

During facility inspections and investigations, Girma actively engages with the dischargers who are sometimes resistant to complying with government regulations, yet he has developed a reputation for fairness and consistency. His professional style and approach to improved regulatory oversight increases the unit's efficiency. We are very fortunate to have Girma working in the Confined Animal Facilities Unit and he is well deserving of this award.

EMPLOYEE: KATIE CARPENTER

UNIT: Non-15

LOCATION: Fresno Office

TITLE: Engineering Geologist

SUPERVISOR: Scott Hatton, Supervising Engineer

Katie Carpenter is a tremendous asset to the Non-15 Program in the Fresno office. Katie's attitude and work ethic, in addition to her in-depth technical knowledge and experience with the Water Board, allows her to take on some of the most challenging tasks that our office has encountered. Katie consistently demonstrates her ability to be the lead staff on complex projects and provides thorough review allowing management to make well-informed decisions. Management consistently receives high praise for Katie from both the public and co-workers.

Katie has recently taken the lead for reviewing Nitrate Initial Assessments submitted for food processors and domestic wastewater treatment facilities to comply with the nitrate control program of CV-SALTS. Her knowledge of the facilities and CV-SALTS requirements were crucial to her review of the Assessment reports.

Katie's new role within the unit is to continue drafting a General Order for food processors within the region to allow efficient and consistence permitting.

Katie also has her hands in the day-to-day permitting tasks including: issuing Notices of Applicability and Monitoring and Reporting Programs for existing General Orders, reviewing Reports of Waste Discharge to begin the start of the permitting process for individual Waste Discharge Requirements, review of a CEQA document for modification to a major winery, handling multiple inquiries from the public and regulated community related to CV-SALTS and Local Agency Management Programs, and processing Public Records Act requests.

Katie possesses a vast amount of experience and knowledge of the Non-15 Program and is a valuable member of our Fresno office team. She is very deserving of this award.

EMPLOYEE: MARISOL GONZALEZ

UNIT: NPDES

LOCATION: Redding Office

TITLE: Engineering Geologist

SUPERVISOR: Bryan Smith, Supervising WRCE

Marisol Gonzalez is an engineering geologist with the Redding office's NPDES Unit. Marisol joined the NPDES Unit in September 2020, after transferring from the Cannabis Regulatory program where she had worked since she started with the Central Valley Water Board in June 2017. While in the Cannabis program, Marisol was known for being a top producer and completed many inspections and reports and helped plan other work regarding mapping and site selection. When the Cannabis program went through a fiscal contraction, Marisol agreed to take on a new role and moved to the NPDES Unit. In the NPDES Unit Marisol quickly dove in and began learning the ins and outs of regulating surface water discharges under the NPDES program. Despite the limitations and challenges of learning a new program in the telework environment, Marisol completed training and took on challenging projects. She is currently working on

an NPDES permit for one of the largest dischargers in the Redding office and tackling its complex issues.

Marisol fit in with her new teammates in the NPDES unit right away, and brings a positive, ready-to-work attitude. She is proving herself to be a valuable addition to the unit and program and her efforts are very much appreciated.

EMPLOYEE RECOGNITION AWARDS NOVEMBER 2021 THROUGH JANUARY 2022

EMPLOYEE: ELIZABETH WELCH

UNIT: Title 27

LOCATION: Fresno Office

TITLE: Water Resource Control Engineer

SUPERVISOR: Kristen Gomes, Senior WRCE

Elizabeth drafted the Bert Crane Road Landfill WDRs and Time Schedule Order that is scheduled for adoption at the February 2022 Board meeting. She has also drafted a WDR modification and reviewed the Hwy 59 Landfill expansion design report. She takes charge in reviewing design and construction certification reports for landfills and is quickly becoming the go-to person for these types of projects. She reviewed numerous monitoring reports and well installation work plans. She reviewed and provided comments for a region wide set of standard operating procedures for our regions Title 27 program. She also provided a preliminary review for a proposed composting facility going through the CEQA process.

Elizabeth has a great attitude, is very knowledgeable, and is always willing to help. Elizabeth is very hard working and is an asset to the Title 27 Unit. We are very fortunate to have Elizabeth working in the unit and she is well deserving of this recognition.

EMPLOYEE: SARAH THOMPSON

UNIT: NPDES

LOCATION: Rancho Cordova Office

TITLE: Water Resource Control Engineer

SUPERVISOR: Danielle Goode

Sarah Thompson is an Engineer in the San Joaquin-Delta NPDES Permitting Unit. She is being recognized for her outstanding work performance in the NPDES permitting section. Sarah joined the Point Source Permitting Section in October 2020 and since being hired, has exceeded expectations as a new permit writer. She has quickly come up to speed on the NPDES program, asks thoughtful questions, presents topics efficiently in meetings, and is always willing to take on a new task with a positive attitude. She utilizes her technical resources and fellow coworkers to produce high quality work products, including issue papers, individual permits, and Notices of Applicability under NPDES General Orders.

Sarah's professional and friendly communication skills made her a strong candidate to take on the Region 5 pretreatment program contact responsibilities. She jumped right into researching the regulations and USEPA guidance and assisting dischargers with their questions. She is also an active part of the NPDES tools/templates team, working with her colleagues to improve and maintain the section's technical permitting resources.

Her work ethic, dependability, and enthusiasm make her a valuable member of our unit and the organization; therefore, she is incredibly deserving of the Employee Recognition Award.

EMPLOYEE: ASHLEY PETERS

UNIT: Irrigated Lands Regulatory Program

LOCATION: Rancho Cordova Office

TITLE: Water Resources Control Engineer

SUPERVISOR: Susan Fregien

Ashley is receiving this award for her outstanding accomplishments in the Irrigated Lands Regulatory Program. I especially want to highlight her hard work to prepare the Grasslands Bypass Project Information Item for the December 2021 Board Meeting. This item focused largely on the past and present status of selenium concentrations in waters that receive discharge from the Grassland Bypass Project. There were many moving parts to bring this presentation together, including coordination with the permittees and multiple internal and external stakeholders.

Ashley's excellent organizational skills were key to a very successful and well-received presentation. In addition, Ashley has stayed up on the complex science and regulatory policy involved in selenium water quality criteria, which is a critical element of this project.

Ashley brings this same level of expertise, commitment, and excellence to the many ILRP projects she supports and leads. Thank you, Ashley!!

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

**Enforcement Table 1 – Central Valley Enforcement Orders
16 October 2021 through 31 December 2021**

Action Date	Agency	County	Notes
11/1/2021	Aerojet Rocketdyne, Inc.	Sacramento	EPL R5-2021-0530 issued in the amount of \$18,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2020 and 31 May 2021.
11/1/2021	Mountain House CSD	San Joaquin	EPL R5-2021-0531 issued in the amount of \$27,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 August 2020 and 31 May 2021.
11/1/2021	Nevada City	Nevada	EPL R5-2021-0532 issued in the amount of \$12,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 December 2020 and 30 June 2021.
11/1/2021	Modesto City and City of Turlock	Stanislaus	EPL R5-2021-0528 issued in the amount of \$27,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 September 2020 through 31 July 2021.
11/1/2021	Sacramento Regional CSD	Sacramento	EPL R5-2021-0526 issued in the amount of \$3,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 August 2019 and 30 June 2021.
11/1/2021	Stockton City	San Joaquin	EPL R5-2021-0523 issued in the amount of \$15,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 November 2017 and 31 May 2018.

Action Date	Agency	County	Notes
11/1/2021	Woodland City	Yolo	EPL R5-2021-0529 issued in the amount of \$45,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2021 and 31 May 2021.
11/1/2021	Yuba City	Sutter	EPL R5-2021-0525 issued in the amount of \$9,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2021 and 30 June 30, 2021.
11/8/2021	Davis City	Yolo	EPL R5-2021-0527 issued in the amount of \$24,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 August 2019 and 30 June 2021.
11/10/2021	Williams City	Colusa	EPL R5-2021-0524 issued in the amount of \$6,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2021 and 30 June 2021.
12/22/2021	Sacramento Area Sewer District	Sacramento	Settlement Agreement and Stipulation for Entry of Administrative Civil Liability (ACL) Order R5-2021-0522 (Order), issued to the Sacramento Area Sewer District (Discharger). The Order resolves violations of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, State Board Order No. 2006-0003-DWQ, as revised by WQ-2013-0058-EXEC (SSS WDRs), related to sanitary sewer overflows (SSOs) between 2 October 2016 and 30 September 2021. The Order imposes an administrative civil liability in the amount of \$630,283.

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 16 October 2021 through 31 December 2021. From a statewide perspective, Region 5 is responsible for 9% of the enforcement actions tracked in CIWQS during this period including 50% of all staff enforcement letters, 4% of all ACLs, and 10% of all NOVs.

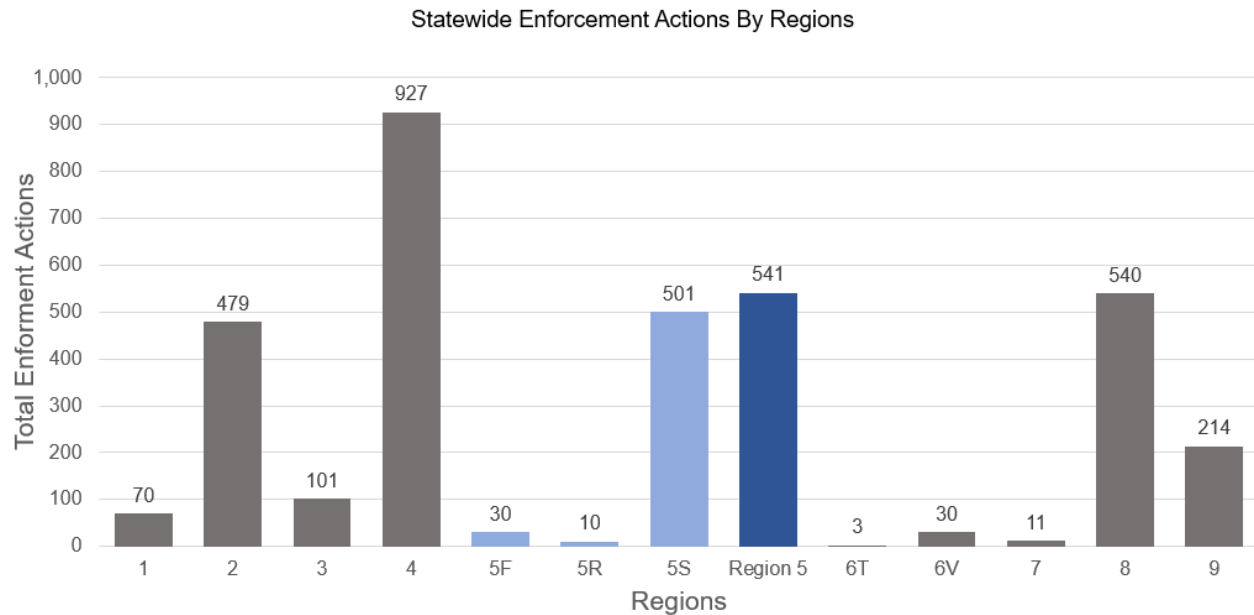
**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS
16 October 2021 through 31 December 2021**

Region	13267	NNC	ACL	CAO	EPL	NOV	SEL	TSO	UNK	VER	Total
1	0	1	3	1	0	63	0	0	0	2	70
2	0	264	0	1	0	214	0	0	0	0	479
3	0	0	3	0	0	94	1	1	2	0	101
4	1	74	14	1	7	789	0	8	6	27	927
5F	0	0	0	0	0	28	0	0	0	2	30
5R	0	0	0	0	0	10	0	0	0	0	10
5S	0	317	1	0	10	155	7	0	1	10	501
R5 Totals	0	317	1	0	10	193	7	0	1	12	541
6T	0	0	0	0	0	2	1	0	0	0	3
6V	0	0	0	0	0	26	1	0	0	3	30
7	0	0	0	0	1	10	0	0	0	0	11
8	0	162	0	0	11	347	0	0	0	20	540
9	0	0	4	0	0	206	4	0	0	0	214
Totals	1	818	25	3	29	1,944	14	9	9	64	2,916

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



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

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

**Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker
16 October 2021 through 31 December 2021**

Region	Letter – Notice	NOV	Staff Letter	Verbal Communication	Warning Letter	Total
5F	1	9	33	0	1	44
5R	0	2	21	1		24
5S	2	1	809	1		813
Total	3	12	863	2	1	881

Finally, the Board’s Irrigated Lands Regulatory Program (ILRP) does not upload enforcement actions into either the CIWQS or GeoTracker databases. For the period between 16 October 2021 through 31 December 2021, a summary of those enforcement actions is included in Table 4, below.

**Enforcement Table 4 – REGION 5 ILRP ENFORCEMENT ACTIONS
16 October 2021 through 31 December 2021**

Region	Water Code Section 13260 Letters/Directives for Failure to Enroll in ILRP	Reminder Letter for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	NOVs for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report)	Total
5F	266	0	0	266
5R	0	0	0	0
5S	16	762	126	904
Total	276	762	126	1,164

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 16 October 2021 through 31 December 2021, there were five (5) reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.

GROVE LAND COLLECTION SYSTEM

In the evening of December 21, 2021, the Central Valley Water Board Fresno Office was notified by both the Rancho Cordova Office and the California Office of Emergency Services (Cal-OES) report # 21-7324 that a sanitary sewer overflow (SSO) of 41,850 gallons had occurred in the Groveland CSD (CSD) collection system, located near the Mary Laveroni Park-Skate Park in Groveland, California. The overflow started on December 19, 2021 at 08:30 and continued until December 21, 2021, at 15:09. The SSO was caused by debris, grease, and a small root ball forming in a low spot in the sewer line. Sewage overflowed out a manhole and into the adjacent Garotte Creek which leads to Pine Mountain Lake. CSD staff cleared the blockage, removed affected soil, and pumped an estimated 14,625 gallons of water from the creek that was then ran through the CSD’s wastewater treatment facility. CSD staff revised the estimate of volume released to the creek to be 57,320 gallons. The creek and lake have both been sampled. The section of pipeline that caused the SSO is scheduled to be replaced later this year.

SACRAMENTO AREA SEWER DISTRICT COLLECTION SYSTEM

On 27 October 2021, the Central Valley Water Board was notified by California Office of Emergency Services (Cal-OES) report # 21-5975 that a sanitary sewer overflow (SSO) of 104,830 gallons occurred from the Sacramento Area Sewer District (SASD) collection system located in the vicinity of 4315 Niobe Circle, Rancho Cordova. Based on a nearby pump station's supervisory control and data acquisition (SCADA) information, the overflow started at 17:55 on 24 October 2021, and ended at 08:58 on 25 October 2021. Three SASD manholes and five cleanouts overflowed due to failure of a pneumatic that isolated the operational sewer collection system with a sewer collection system that was not yet in service. The sewer system not in service was open to surface water runoff and was filled with stormwater from the historic rain event that occurred on 24-25 October 2021. The overflows occurred in the areas of 4315 Niobe Circle, 11736 Azaela Garden Way, and 4529 Anatolia Way in Rancho Cordova. The overflow was estimated to be 104,830 gallons. It consisted of 19 gallons to land and 104,811 gallons to the storm drains, of which 104,811 gallons reached surface water. SASD recovered a total of 15 gallons from land but did not recover any overflow that reached the storm drains or surface water. SASD returned all recovered overflow to the sewer system.

CITY OF STOCKTON MUNICIPAL UTILITY DISTRICT COLLECTION SYSTEM

On 27 October 2021, the Central Valley Water Board was notified by the California Office of Emergency Services (Cal-OES Control #21-5980) of a discharge of sanitary sewage from the Stockton Regional Wastewater Control Facility (RWWCF). Due to high influent flows to the RWWCF caused by heavy storms, primary treated wastewater filled the biotower basement and overflowed to the ground surface on 24 October 2021, thence onto Navy Drive and into a storm drain inlet leading to a storm water retention basin operated by the Port of Stockton. Approximately 10 million gallons (MG) of primary treated wastewater mixed with 6 MG of rainwater entered the retention basin. All water remained in the basin until 19 November, when pumping began to return all water in the basin to the City of Stockton's wastewater treatment plant for treatment. Pumping continued through 24 November 2021, and approximately 16 million gallons of water were removed from the basin, leaving approximately 53,000 gallons which could not be removed due to the shallow depth.

CITY OF MODESTO COLLECTION SYSTEM

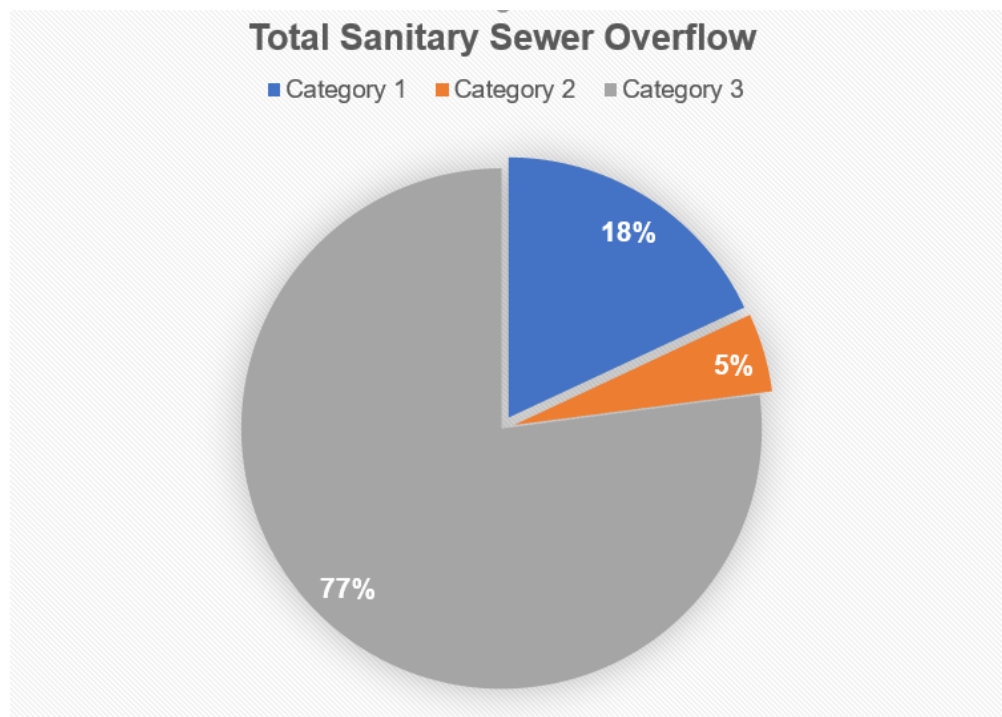
On 25 October 2021, Central Valley Water Board staff received a CalOES Report (Control Number 21-5996), filed by the City of Modesto (City) describing a spill of more than 50,000 gallons of raw sewage from its collection system into Dry Creek, a tributary to the Tuolumne River. The City's crews evaluated the area and determined that the sink hole was caused by a pipe collapse. Approximately 75 minutes after the initial reported spill incident the City's collection crews were able to install a bypass and

stopped the spill. Approximately 211,654 gallons of raw sewage mixed with heavy rainwater was spilled.

CITY OF MODESTO COLLECTION SYSTEM

On 30 October 2021, Central Valley Water Board staff received a CalOES Report (Control Number 21-6152), filed by City of Modesto (City) describing a spill of more than 50,000 gallons of raw sewage from its collection system into Dry Creek a tributary to the Tuolumne River. According to the City, the spill occurred due to bypass pump failure while repairs were being made to a collapsed line which occurred on 25 October 2021. Approximately 211,650 gallons of raw sewage into Dry Creek a tributary to the Tuolumne River.

Subsequently, on 23 November 2021, Central Valley Water Board staff issued a Notice of Violation for the spills which occurred on 25 October 2021 and 30 October 2021, requiring the City to submit a technical report describing actions that it has implemented to similar incidents in the future.



Enforcement Figure 2: Central Valley Sanitary Sewer Overflow Summary (16 October 2021 through 31 December 2021)

For the reporting period between 16 October 2021 through 31 December 2021, there were 266 total SSO spills: 48 Category 1, 13 Category 2, and 205 Category 3 spills.

ADDITIONAL INFORMATION ON SSOS

Additional information regarding SSOs including the current Monitoring and Reporting Program (MRP) can be found at the [State Water Board's Sanitary Overflow Reduction Program](https://www.waterboards.ca.gov/water_issues/programs/sso/index.html) (https://www.waterboards.ca.gov/water_issues/programs/sso/index.html). Sewage Collection Agencies report SSOs on-line at the State Water Board's CIWQS database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (General Statewide Waste Discharge Requirements for Sewage Collection Agencies).

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 16 October 2021 through 31 December 2021, Central Valley Water Board staff have received a total of 42 complaints from phone calls, emails, and from the CalEPA Complaint database. To date, 39 (93%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining 3 complaints remain ongoing.

ADMINISTRATIVE CIVIL LIABILITY

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

COMPLIANCE PROJECT (CP)

The Regional Water Boards may allow a small community publicly owned treatment works that has a financial hardship to spend an amount equivalent to the 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.

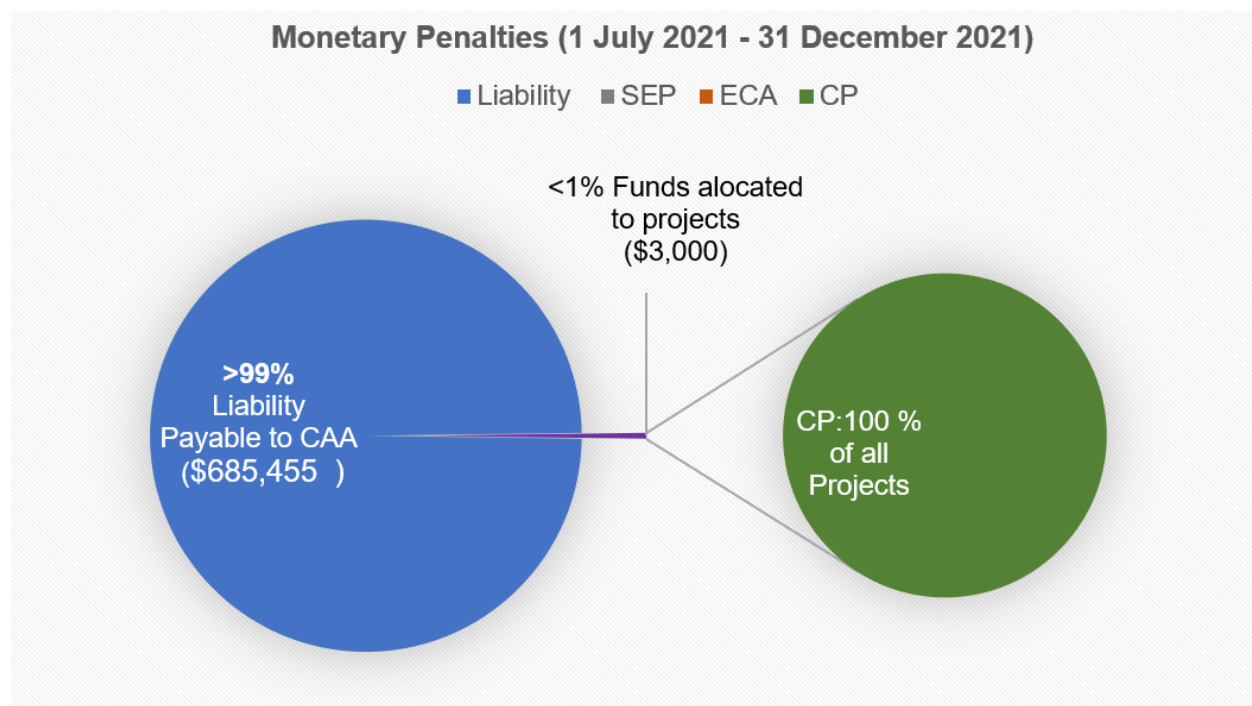
SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

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 2021 through 31 December 2021, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of 688,455 in monetary penalties (Liability payable to CAA, CP, and SEP) were issued during this period, of which 3,000 was allocated for CPs (see Enforcement Figure 3 below).



Enforcement Figure 3: Region 5 – Sum of Total Monetary Penalties Issued during the fiscal year 16 October 2021 through 31 December 2021)

PERFORMANCE TARGETS

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

To this end, the Water Boards establish annual performance targets for key output measures. In effect, these targets are goals that establish measurable levels of

performance to be achieved within a specified time period. The Water Board has a systematic target setting approach for several of its programs. Using this new method, performance targets are based on available resources and uniform cost factors for key workload outputs. This target setting approach is described in the [Resource Alignment Evaluation Report](#)

(https://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf)

and was used to develop the FY 2020-2021 performance targets. Below is the Central Valley Water Board’s Performance Measurement Summary for the 2021-2022 fiscal year.

ENFORCEMENT TABLES 5a-5e - REGION 5 INSPECTION PERFORMANCE MEASUREMENT SUMMARY FROM 1 JULY 2021 THROUGH 31 DECEMBER 2021

Table 5a – NPDES Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Major Facilities Inspected	29	9	31%	NA	9
Minor Facilities Inspected	9	5	56%	NA	5

Table 5b – NPDES Storm Water

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Stormwater Construction Inspections	385	186	59%	NA	226
Stormwater Industrial Inspections	195	119	63%	NA	122
Stormwater Municipal Inspections	0	6	NA	NA	9

Table 5c – Waste Discharge to Land Wastewater

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	151	57	42%	NA	64

Table 5d – Land Disposal

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Landfill Inspections	113	29	27%	NA	31
All Other Inspections	23	19	87%	NA	20

Table 5e – Other Programs

Programs	Original Target	Facilities Inspected	% Complete = Actuals/ Original Target	Revised Target	Total # of Inspections Performed
Forest Activities Inspections	166	109	76%	NA	126
Confined Animal Facility Inspections	275	142	55%	NA	150

**ENFORCEMENT TABLE 6 – REGION 5 CLEANUP ACTION SUMMARY
1 JULY 2021 THROUGH 31 DECEMBER 2021)**

Table 6 – Clean-Up

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New DoD Sites into Active Remediation	6	0	0%	NA	NA

Programs	Original Target	Actuals: Permits or Issued	% Complete = Actuals/ Original Target	Revised Target	Total # of Permits Issued
New SCP Sites into Active Remediation	50	4	8%	NA	NA
Cleanup Program Sites Closed	60	16	26%	NA	NA
New UST Sites into Active Remediation	25	0	0%	NA	NA
Underground Storage Tank Sites Closed	68	4	6%	NA	NA

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

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

A second Review Panel reviewed the open water modeling and tidal wetlands reports and submitted a Final Report on those studies to the Delta Stewardship Council's Delta Science Program on 9 July 2021. Board staff will use information from these studies and recommendations from both Panels to consider revisions to the DMCP. ADA-compliant versions of the [Review Panel's Final Reports](#) can be viewed here:

(<https://deltacouncil.ca.gov/delta-science-program/independent-science-review-of-the-delta-mercury-control-program>)

On 24 February 2021, Board staff conducted a virtual public workshop and CEQA scoping meeting. Representatives from various stakeholder groups, including wastewater, stormwater, irrigated agriculture, as well as state and federal agencies attended and provided verbal comments. Tribal representatives were also present. Four entities submitted written comments that will be considered throughout the development of the DMCP Review and included within the administrative record. Board staff are continuing to incorporate recent data and new methodologies to determine needed modifications to the DMCP.

More information on the DMCP, including the CEQA scoping presentation slides and recording, can be found on the [DMCP website](#) here:

(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/)

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

Board staff attended Delta RMP meetings to provide support for program implementation.

The Delta RMP Steering Committee (SC) and Technical Advisory Committee (TAC) met at a joint meeting on 8 December 2021. Board staff gave a presentation to program participants about long-term program planning options to optimize program efficiency and workload. Additionally, a program survey was implemented to identify Delta RMP strengths, weaknesses, and priorities. Each participating stakeholder group gave brief presentations that summarized their answers to survey questions about the most valuable and least valuable aspects of the program, where there is room for improvement, and which long-term planning option (model) should be implemented in the program.

The participating TAC and SC members discussed the merits of each model and how it might be implemented over the next five years. An additional SC meeting was held on 14 December 2021 to continue the long-term planning strategy discussion. The SC passed several recommendations for Delta RMP monitoring for the next two years. Additional meetings will be held in 2022 to discuss program priorities and further identify long-term planning strategies.

Board staff met internally to discuss both current and potential future areas of noncompliance based on requirements in Attachment A in the Board Resolution R5-2021-0054. Board staff also met with the Delta RMP Board of Directors President and Executive Director on 11 January 2022 to review a draft outline of the Annual Report and provide direction regarding the first quarterly report deliverable the Delta RMP will be submitting to the Executive Officer on 1 February 2022, per the Resolution.

Board staff coordinated with State Board staff to resolve outstanding revisions to the general Quality Assurance Project Plan (covers all topics other than CECs) and the Data Management Standard Operating Procedures document for FY21/22 monitoring. A conditional approval is pending. Another coordination meeting was held with State Board and USGS staff on 7 January 2022 to determine how to reconcile discrepancies in past Delta RMP pesticides data reported in CEDEN. USGS staff agreed to provide additional information to CEDEN datasets to improve state data compatibility

DELTA NUTRIENT RESEARCH PLAN

The Delta Nutrient Research Plan (approved by the Central Valley Water Board in August 2018) identifies information gaps for determining need and potential scope of

water quality objectives for nutrients in the Delta. Board Staff are working to conduct and support data collection to fill the information gaps.

STATUS OF DELTA NRP IMPLEMENTATION ACTIVITIES

- Board staff are meeting regularly with Delta Science Program, CDFW, and State Water Board OIMA to improve Delta HABs information sharing including possibly organizing a workshop on harmful algal blooms hosted by the Delta Science Program towards the end of 2022.
- Board staff are part of a project team that is monitoring cyanotoxins in water and benthic organisms in the Delta. The first year of sample collection for the 2-year project was completed in August 2021. Board staff are providing project tracking, reporting, and data management.
- Board staff are nearing completion of a report estimating mass loads of nitrogen and phosphorous entering and exiting the Delta. This work updates and extends previously published load estimates and covers the period 2008-2019.
- Analyses and an initial report for the *Microcystis* Source Tracking study were completed in December 2021. This project examines how *Microcystis* cells that overwinter in sediment contribute to harmful algal blooms that occur in summer and fall. The project is conducted by Board staff, Roberston-Bryan Inc, and Bend Genetics and is funded by the State Water Board Freshwater HAB Program and supplemental environmental project funds administered by the Delta RMP.
- Board staff are meeting monthly with Restore the Delta and San Francisco Baykeeper to plan HAB monitoring in the Stockton area for summer 2022. Board staff and the FHAB Program will support Restore the Delta with training and cyanotoxin analysis funds.
- Board staff participated in the initial meeting of the Interagency Ecological Program (IEP) Nutrients and Phytoplankton Project Work Team. Objectives of the work team include increasing information distribution amongst the entities collecting data in the Delta and identifying information gaps.

More information about [IEP work teams](#) is here:

(<https://iep.ca.gov/Science-Synthesis-Service/Project-Work-Teams>)

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. The data from

5 November 2021 through 11 January 2022 indicates three excursions below the water quality objective of 6 mg/L on 18 November 2021. On 19 November 2021, the Port of Stockton began operating the aerator and dissolved oxygen levels increased to above 6 mg/L by 19 November. However, the water quality objective relaxes to 5 mg/L in December. Dissolved oxygen concentrations remained above 5 mg/L. The aeration facility remained in operation until 22 November 2021. The lowest dissolved oxygen concentration during any of the temporary excursions in this reporting period was above 5 mg/L which is unlikely to result in significant impacts.

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

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

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

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

TMDL BASIN PLANNING

PESTICIDE BASIN PLANNING/TMDLS

CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL

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

Board staff continue to work with MS4s, wastewater, and agricultural dischargers under the program to meet the baseline monitoring and management plan requirements in the Control Program for Pyrethroid Pesticide Discharges.

On 15 July 2020, Board staff sent orders under Water Code sections 13267 and 13383 (Orders) to MS4 permittees in the Sacramento and San Joaquin River Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these Orders, Phase I MS4 permittees were required to submit draft Baseline Monitoring Plans by 1 December 2020. Phase II MS4 permittees under the Order had the option to either 1) submit Baseline Monitoring Plans by 28 February 2020, or 2) acknowledge the existing data are assumed to be representative of their discharge, forego baseline monitoring, and prepare a Pyrethroid Management Plan (PMP) due to the Board by 19 August 2021.

All the Phase I MS4 permittees have complied with the Orders and submitted Plans by 1 December 2021. Two Phase 1 MS4 Baseline Monitoring Plans have been approved by the Executive Officer.

Nine Phase II MS4 permittees have selected the baseline monitoring option. Of these nine, five Phase II MS4 permittees' Baseline Monitoring Plans have been approved. A revised draft Baseline Monitoring plan for four Lake County Phase II permittees is being revised by the permittees.

For the PMPs, forty-two of the fifty Phase II MS4 permittees submitted PMPs and one permittee was granted an extension. Eleven PMPs have been approved and the other thirty-one are being reviewed by Board staff. Board staff are following up with the seven Phase II MS4 permittees that did not submit PMPs.

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

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

CLEAR LAKE NUTRIENT TMDL

Board staff began initiating the process to revise the Nutrient TMDL. The revisions will incorporate much of the information currently being gathered through studies and projects in the watershed, including the Board's Environmental Driver's study, the UC Davis study, Tribal monitoring data, and other stakeholder efforts. Implementation of the existing TMDL will continue.

More information can be found on the [Clear Lake Nutrient TMDL website](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/) at:

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

TRIBAL BENEFICIAL USES DESIGNATION

On 2 May 2017, the State Water Board 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 (Resolution 2017-0027). This Resolution established three new beneficial use definitions: Tribal Tradition and Culture (CUL), Tribal Subsistence Fishing (T-SUB), and Subsistence Fishing (SUB). The SUB and T-SUB beneficial uses relate to the risks to human health from the consumption of fish or shellfish. The SUB beneficial use definition does not mention "California Native American Tribe" but will be included as a Tribal Beneficial Use (TBU) since can be utilized by California Native American Tribes, Tribal members, as well as other interested persons/members of public. The definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights. On 6 December 2018, the Central Valley Water Board adopted

Resolution R5-2018-0079 approving the 2018 Triennial Review with TBUs as a priority project.

At the Board Meeting scheduled for 17 and 18 February 2022, the Central Valley Water Board will consider adoption of a proposed basin plan amendment to add the TBU definitions to the Water Quality Control Plans for the Sacramento River and San Joaquin River Basins and Tulare Lake Basin. Five comments supporting the BPA were received during the public comment period.

Board staff applied for and were awarded an AmeriCorps Civic Spark Fellow to support the TBU project, which began in September and will continue through August 2022.

Board staff continued participation in the TBUs Working Group, which has representatives from the nine Regional Water Boards and several divisions within the State Water Board (including the Office of Chief Council, Office of Public Participation, Division of Water Quality).

More information can be found on the [Tribal Beneficial Uses](https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/tribal_beneficial_uses/) website at:

(https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/tribal_beneficial_uses/)

2021 TRIENNIAL REVIEW

The Triennial Review consists of the Board's solicitation of public comments on water quality issues in the Central Valley that may need to be addressed through basin plan amendments. The Triennial Review is summarized through a prioritized workplan that describes the actions the Board may take over the next three years to investigate and respond to these issues. The Board's solicitation process includes providing an opportunity for interested persons to provide written comments to the Board. Though the list of issues raised through the public solicitation process typically far exceeds available resources, the Triennial Review helps the Board identify and prioritize water quality issues that need to be addressed through the Basin Planning and TMDL Programs. Board staff intend to bring the 2021 Triennial Review Workplan to the Central Valley Water Board for adoption in 2022. On 2 December 2021 Board staff concurrently made the 2021 Draft Triennial Review Workplan available for public review and issued a Notice of Public Hearing that a Resolution to approve the 2021 Triennial Review Workplan would be considered at the 17/18 February 2022 Board Meeting. Comments on the draft Workplan were due at 5:00 pm on 6 January 2022. Staff received 13 comment letters and are preparing a Response to Comments to be issued in advance of the February Board Meeting.

BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide plan for control of biostimulatory (eutrophic) substances and protection of 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 numeric or narrative water quality objective(s) for biostimulatory substances and control options for point and non-point sources. It is anticipated to apply statewide to streams, rivers, lakes, and reservoirs. Biostimulatory substances are excess nutrients, primarily nitrogen and phosphorus, that cause detrimental aquatic plant and algal growth. Biological integrity uses indices of species diversity and abundance of small organisms and algae to assess ecological health of a water body.

Board staff are tracking the State Water Board activities and State Water Board anticipates hosting stakeholder meetings in Spring 2022. In addition, Board staff are working directly with the Southern California Coastal Water Research Project (SCCWRP) to evaluate in detail the data and biostimulatory factor relationships in human-impacted streams and lakes and reservoirs in the Central Valley.

A focus of SCCWRP's technical analyses are stream channels that have been deliberately modified for human use. Board staff reviewed and provided comments on a draft report on bio integrity scores in modified channels. In December, Board staff facilitated a meeting between SCCWRP, SWB, and representatives of ILRP Coalitions to discuss identification of modified channels through field observations.

REGIONAL TEMPERATURE CRITERIA DEVELOPMENT

The 2018 Triennial Review identified Temperature Criteria and Objectives as a priority project to develop regionally applicable temperature criteria for the Central Valley. The report completed in FY18/19 that assessed the EPA Region 10 temperature criteria applicability for the Central Valley recommended the development of regionally based criteria. Board staff are coordinating with Division of Water Rights on next steps to identify studies needed for developing a long-term approach to address unresolved temperature criteria questions and uncertainties. Board staff participated in a three-part discussion with Water Rights staff and various stakeholders, including state and federal agencies and academic researchers, on temperature studies. Water Rights has been developing contracts with scientific research partners to implement the studies developed during those meetings and continue to coordinate with Board staff.

SALINITY AND CV-SALTS

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

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

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

As required by the Nitrate Control Program, EAP implementation to provide safe drinking water to impacted communities began on 7 May 2021. As of 1 September 2021, Priority 1 Management Zones have collectively reported the following metrics:

Table 1. Priority 1 Management Zone (MZ) Program EAP Implementation Totals (as of 1 January 2022)

EAP Metric	Total (all MZs)	Turlock/ Modesto	Chow-chilla	Kings	Kaweah	Tule
Inquiries/Interest/calls	2114	500	17	564	581	452
Size of Management Zone		> 5000	<1000	>5000	<1000	<1000
Testing Applications Submitted	1336	572	4	485	133	142
Ineligible	425	110	1	205	23	86
Not Responsive	172	91	0	37	40	4
Wells Tested/ Scheduled/ Known	628	266	3	253	70	36
Above 10 mg/L	383	158	3	136	67	19
Average Percent over 10 mg/L	61%	59%	100%	54%	96%	53%
Households receiving bottled water	404	169	3	139	67	26
Fill Station (FS) Locations	7	0	0	3	2	2
FS Average Gallons per Day	609	0	0	175	150	284
Total Households/ equivalents	709					

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

More information about the [SNCP](https://cvsalts.info), can be found at: (<https://cvsalts.info>)

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

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

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

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

MAA meetings with Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District (GWS) are held quarterly. The next meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) will be held on 21 March 2022.

During the 20 December 2021 MAA Quarterly Meeting, the San Joaquin Valley Drainage Authority (SJVDA) provided technical updates regarding Proposition 84 activities, including status of diversions in the West Stanislaus and Patterson Irrigation Districts, Turlock and Modesto Irrigation Districts quarterly spill and drainage data to the San Joaquin River informing daily salinity forecasts, and major site rehabilitation occurring at Westley Way to upgrade the flow monitoring and crossing at the location. GWS provided technical updates regarding Proposition 84 activities, of which the central discussion was ongoing improvement to WARMF model water quality simulations. The WARMF model is a data-driven watershed model that can readily estimate flow and EC in the absence of measurements. GWD and USBR also planned to improve the monitoring capability at Mud Slough by 31 December 2021.

USBR's FY 20/21 Annual Report was submitted to the Central Valley Water Board in December 2021.

[USBR's documents](https://www.usbr.gov/mp/ptms/) 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 fecal indicator bacteria on California's 303(d) List. SWAMP is conducting monitoring to investigate the elevated indicator bacteria. To keep the public and local agency partners informed about current conditions, SWAMP monitors swimming beaches and recreation areas along the Lower American River and mouth of Steelhead Creek. New *E. coli* results are posted to an interactive [online map](https://arcg.is/1LXHmf0) (<https://arcg.is/1LXHmf0>) each week.

SWAMP is also coordinating with local agencies on a study to identify the sources of fecal pollution to the Lower American River. To make the most of limited resources and collect a high-resolution dataset, it was agreed to break the study into multiple phases. Phase 1 of the study was completed in 2020 and targeted the 3-mile reach from Paradise Beach to Sutter's Landing Regional Park. Microbial source tracking (MST) analysis of samples with elevated *E. coli* indicated that birds are the largest and most consistent source of contamination in this section of the river. Dogs are also a source of contamination in some areas, while humans were not a significant or consistent source

during the study period. More information is available in the [Phase 1 Data Summary](https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/report_summary_sheet/lar_ph1_ds.pdf) (https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/report_summary_sheet/lar_ph1_ds.pdf).

Phase 2 of the study began in July 2021 and focuses on dry weather sources in the river reach from Sutter's Landing Regional Park to the confluence with the Sacramento River. Monitoring includes 12 sites on the American River and 1 stormwater sump. Phase 2 monitoring is scheduled to be completed in September 2022.

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 located 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.

When human or animal illnesses or deaths are reported, an interagency HAB illness team investigates each case. The team is comprised of the California Department of Public Health, the Office of Environmental Health and Hazard Assessment, the State Water Board, and the California Department of Fish and Wildlife. Using case specific information, the team determines whether each case may have been caused by HABs or whether the incident was likely due to other causes. This process includes interviewing the reporting party, consulting the doctor or veterinarian, conducting follow-up sample collection, and/or analyzing carcasses. Cases that are suspected to be HAB related are reported to the Centers for Disease Control and Prevention (CDC) [One Health Harmful Algal Bloom System](https://www.cdc.gov/habs/ohhabs.html) (https://www.cdc.gov/habs/ohhabs.html).

More information on how freshwater [HAB related illness](#) tracking in California can be found:

(https://mywaterquality.ca.gov/habs/hab-related_illness.html)

WINTER 2021/22 – CENTRAL VALLEY BLOOMS

HABs typically occur from summer through late fall when temperatures are at their highest. However, blooms can occur in the winter and spring, especially if temperatures are mild and nutrients are introduced from rainfall runoff.

A summary of cyanobacteria blooms for the period from 12 November 2021 to January 2022 is provided in Cyanobacteria Table 1.

Cyanobacteria Table 1. Bloom Summary: (12 November 2021 through 12 January 2022)

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

*Confirmed and continuing blooms are identified through response actions by Board staff or by monitoring programs conducted by other stakeholders. Informed visual confirmation from partner entities was included as a confirmation of a bloom.

§ The animal impact reported was likely not HAB related.

FOREST ACTIVITIES PROGRAM

PROJECTS

DEVELOPMENT OF A FEDERAL NPS PERMIT FOR USFS AND BLM ACTIVITIES

The Federal NPS Permit development project is targeting activities conducted by the USFS and BLM on federal lands in the region. Activities proposed for coverage under this programmatic permit include vegetation management, road and trail management, post-fire recovery, restoration, and recreation. Until August 2021, staff had been coordinating permit development activities with the Lahontan Regional Water Board, due to conflicting priorities Region 6 withdrew from the project. The USFS and BLM

have prepared documents establishing best management practices to ensure water quality protection during activity implementation, those BMPs will be released for use in Nov/Dec 2021. Tribal consultations were initiated in 2020 and are on-going. A contract to prepare an EIR for the project was executed in 2020 and EIR sections are in development. Permit drafting is on-going as is monthly meetings with the USFS and BLM representatives and biannual executive meetings. Staff expects to bring the proposed permit to the board for consideration in early 2023.

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

The Dixie Road project is for the purpose of implementing forest management, erosion control, and storm proofing practices on Dixie Road and Camp Creek Road to protect the spawning beds and fisheries habitat of endangered and threatened species associated with the North Fork Feather River, Camp Creek, and their tributaries in Butte County within the perimeter of the 2018 Camp Fire. Currently all NEPA/CEQA permitting has been completed, landowner access agreements were signed, the project went out to bid and a contractor was selected, construction material were purchased, and the project implementation was started on 6 July 2021. Implementation was started but was halted from July 13th until August 24th due to impacts from the Dixie Fire. The project area was not directly impacted by the fire, but it was close to the project area and access to the project area was restricted by Cal Fire. Work resumed on August 25th and construction implementation has been 90% completed (Closing 7/31/2022).

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. NPDES Tables 1 through 3, below, summarize the Notices of Applicability that were issued to date for Fiscal Year 2021/2022 (1 July 2021 through 31 December 2021) for the General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Water (Limited Threat General Order), Waste Discharge Requirements for Municipal Waste Dischargers that Meet Objectives/Criteria at the Point of Discharge to Surface Water (Municipal General Order), and Waste Discharge Requirements for Cold Water Concentrated Aquatic Animal Production Facility Discharges to Surface Water (CAAP General Order).

**NPDES PERMIT Table 1 –Limited Threat Discharges to Surface Waters
R5-2016-0076-01**

Facility	General Order Permit Number
PG&E Iron Canyon Dam	R5-2016-0076-069
California Water Service (Visalia District)	R5-2016-0076-071

NPDES PERMIT Table 2 - Municipal General Orders R5-2017-0085-01

Facility	County	General Order Permit Number
City of Live Oak WWTP NOA Amendment	Sutter	R5-2017-0085-018

NPDES PERMIT Table 3 - CAAP General Order R5-2019-0079

Facility	County	General Order Permit Number
CDFW and USBR Nimbus and American River Fish Hatcheries	Sacramento	R5-2019-0079-005

OIL FIELDS

WASTEWATER SURFACE PONDS

Central Valley Water Board staff (Staff) continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land and evaluating closure plans for produced wastewater ponds. Items that were completed by Staff since November include the following:

- Denied a request for a No Further Action letter for a pond closure where the operator needs to conduct additional evaluations and potential actions for ensuring protection of water quality and human health.
- Conveyed an inspection report that documented a Staff inspection of pond sampling and cleanup work.
- Completed 12 inspections related to oil field facilities.

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

SPILL RESPONSE

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Central Valley Water Board staff were notified of 21 events in November and December.

A spill of oil field produced wastewater occurred on the BBO Lease operated by Berry Petroleum Company (BRY), in the Midway Sunset Oil Field on 2 November. According to OES, a leaking pipe caused the discharge of approximately 50 bbls (2,100 gals) of oil field produced wastewater to land including a section of an ephemeral stream bed. On 4 November, BRY staff told Board staff that most of the discharged fluids were contained, and cleanup of the affected areas was in-progress. BRY provided Board staff with photographs of the affected areas before and after the completion of site cleanup.

A spill of crude oil occurred on the KCL-84 Lease operated by Griffin Resources, LLC. (Griffin), in the Fruitvale Oil Field on 3 November. According to OES, a leak from a non-operational oil well caused the discharge of approximately 1.2 bbls (50 gals) of crude oil into a parking lot in a commercial area. On 4 November, Griffin staff told Board staff that a valve on the oil well failed and caused the discharge of less than of 0.02 bbls (1 gal) of oil. Griffin staff added that cleanup of the affected areas was complete, and a vacuum truck was used to recover all free-standing fluids in the concrete cellar beneath the pumping unit. According to Griffin staff, staff of the California Geothermal Energy Management (CalGEM), California Department of Fish and Wildlife – Oil Spill Prevention and Response (CDFW-OSPR), and Bakersfield Fire Department inspected the spill site.

A spill of crude oil and oil field produced wastewater occurred on the Section 21Z Lease operated by BRY, in the Midway Sunset Oil Field on 12 November. According to OES, the packing rod on a production well failed causing the discharge of approximately 7.56 bbls (318 gals) of oil and 1.1 bbls (46.2 gals) of oil field produced wastewater to land. On 12 November BRY staff told Board staff that the discharged fluids affected a disturbed production area and no ephemeral stream beds, or natural drainage courses were affected. BRY staff added that cleanup of the affected areas was in progress. On 17 November, BRY staff provided Board staff with photographs of the affected areas before and after the completion of cleanup.

A spill of crude oil and oil field produced wastewater occurred on the West Pit Facility operated by California Resources Corporation (CRC), in the Belgian Anticline Oil Field on 12 November. According to OES, a flow line leak caused the discharge of approximately 3 bbls (126 gals) of oil and 7 bbls (294 gals) of oil field produced wastewater to land. On 12 November, CRC staff told Board staff that the discharged fluids affected a production area and no ephemeral stream beds, or natural drainage courses have been affected by the spill. Cleanup of the affected areas was completed, and CRC staff provided Board staff with photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Hopkins Lease operated by Sentinel Peak Resource California (SPR), in the Cymric Oil Field on 14 November. According to OES, a group line leak caused the discharge of approximately 16 bbls (672 gals) of oil and 4 bbls (168 gals) of oil field produced wastewater to land. On 14 November, SPR staff told Board staff that the discharged fluids affected a vegetated area, but no ephemeral stream beds or natural drainage courses have been affected by the spill. Cleanup of the affected areas was completed, and CRC staff provided Board staff with photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Ant Hill Facility operated by CRC, in the Ant Hill Oil Field on 16 November. According to OES, a leak from a wastewater storage area caused the discharge of approximately 253 bbls (10,626 gals) of oil and 58 bbls (2,436 gals) of oil field produced wastewater to land. On 16 November, CRC staff told Board staff that the discharged fluids affected a containment area surrounding the source of the discharge. CRC staff added that a portion of the discharged fluids breached containment, but no ephemeral stream beds or waterways were affected by the spill. CRC staff told Board staff that cleanup of the affected areas was completed on 22 November and provided Board staff with photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Ethel D Lease operated by BRY, in the Midway Sunset Oil Field on 17 November. According to OES, a pipeline leak caused the discharge of approximately 12 bbls (504 gals) of crude oil and produced wastewater to land. The OES report also stated that no waterways were affected by the spill. On 17 November, BRY staff told Board staff that the discharged fluids affected a production area, and no ephemeral stream beds or waterways were

affected by the spill. BRY staff added that all free-standing fluids were recovered, and cleanup of the affected soil will be completed. BRY staff told Board staff that cleanup of the affected areas was completed the same day of the incident and provided photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Robinson B Lease operated by CRC, in the Kern Front Oil Field on 22 November. According to OES, due to an unknown cause a skim tank overflowed discharging approximately 5 bbls (210 gals) of oil and 250 bbls (10,500 gals) of oil field produced wastewater to land affecting the secondary containment of the source tank. On 22 November, CRC staff told Board staff that the discharged fluids were entirely contained within the containment area surrounding the source of the discharge and no waterways or ephemeral stream beds were affected. On 1 December, CRC staff told Board staff that cleanup of the affected areas was completed and staff of CDFW-OSPR conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup. CRC staff provided Board staff with photographs of the affected areas before and after cleanup.

A spill of crude oil occurred on the Welpert Lease operated by SPR, in the Cymric Oil Field on 23 November. According to OES, a group line leak caused the discharge of approximately 1 bbl (42 gals) of oil to land affecting a section of an ephemeral stream bed. On 23 November, SPR staff told Board staff that a portion of the discharged oil entered a dry stream bed. SPR staff told Board staff that cleanup of the affected areas was completed the same day of the discharge. SPR staff added that staff of CDFW-OSPR conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Ethel D Lease operated by BRY, in the Midway Sunset Oil Field on 23 November. According to OES, a pipeline leak caused the discharge of approximately 5 bbls (210 gals) of oil and 35 bbls (1,470) of produced wastewater to land. On 23 November, BRY staff told Board that the discharged fluids affected a disturbed production area and no ephemeral stream beds, or waterways were affected. BRY staff added that cleanup of the affected areas was in progress. BRY staff told Board staff that cleanup of the affected areas was complete and provided photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Anderson-Goodwin Lease operated by Aera Energy LLC (Aera), in the Midway Sunset Oil Field on 26 November. According to OES, a mechanical failure at a production well pumping unit caused the discharge of approximately 122 bbls (5,124 gals) of oil and produced wastewater into an ephemeral stream bed. An update to the OES report stated that cleanup of the affected areas was being conducted by Patriot Environmental Services. Staff of Aera provided Board staff with photographs of the affected areas before and after cleanup. On 30 November, Board staff conducted a post-cleanup inspection of the spill site and observed that the areas affected by the spill appeared to be visually clean. Staff of CDFW-OSPR conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup in early December.

A spill of crude oil and oil field produced wastewater occurred on the CMS facility operated by Aera, in the Coalinga Oil Field on 27 November. According to OES, a leaky stuffing box on a production well pumping unit caused the discharge of approximately 22 bbls (924 gals) of oil and 45 bbls (1,890 gals) of produced wastewater to land. On 27 November, Aera staff told Board staff that the discharged fluids affected a production pad and no dry stream beds, or waterways were affected by the spill. On 29 November, Aera staff told Board staff that cleanup of the affected areas was completed and provided photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the P-det Lease operated by Seneca Resources (Seneca), in the Lost Hills Oil Field on 29 November. According to OES, a tank overflowed due to an unknown reason causing the discharge of approximately 25 bbls (1,050 gals) of oil and 800 bbls (33,600 gals) of produced wastewater to land affecting an orchard. On 29 November, Seneca staff told Board staff that the discharge was stopped and staff of CalGEM inspected the spill site. On 30 November, Board staff inspected the spill site and observed large areas covered by oil underneath almond trees. Board staff observed that the discharge originated from a 100-bbl tank located within a pit filled with oil. Cleanup of the affected areas was in-progress by Patriot Environmental Services at the time of the inspection. On 21 December, Seneca staff informed Board staff that cleanup of the spill site was complete and provided post-cleanup photographs of the affected areas.

A spill of crude oil and oil field produced wastewater occurred on the HT facility operated by Seneca, in the Midway Sunset Oil Field on 1 December. According to OES, a flow line leak caused the discharge of an unknown amount of oil and oil field produced wastewater into a dry stream bed. On 1 December, Seneca staff told Board that the discharge consisted of approximately 2 bbls (84 gals) of oil and produced wastewater. Seneca staff added that staff of CDFW-OSPR inspected the spill site, and that cleanup was in-progress by Patriot Environmental Services. On 2 December, Seneca staff informed Board staff that cleanup of the affected areas was complete and provided photographs of the affected areas before and after cleanup. Staff of CDFW-OSPR conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup on 2 December.

A spill of crude oil and oil field produced wastewater occurred on the Section 25A Lease operated by Crimson Resource Management (Crimson), in the Midway Sunset Oil Field on 4 December. According to OES, a pipeline failure caused the discharge of approximately 1 bbl (42 gals) of oil and 2 bbls (84 gals) of produced wastewater to land. On 4 December, Crimson staff told Board staff that a portion of the discharged fluids affected a section of a dry stream bed on a neighboring facility operated by Chevron USA, Inc. Crimson staff added that cleanup of the affected areas was in-progress and almost complete. On 7 December, Crimson staff told Board staff that cleanup of the affected areas was complete and provided photographs of the affected areas before and after cleanup. On 8 December, Crimson staff told Board staff that staff of CDFW-OSPR conducted a post cleanup inspection of the affected areas and signed-off on the site cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Wilson Lease operated by Sequoia Exploration, Inc. (SEI), in the Mountain View Oil Field on 9 December. According to OES, a temporary tank overflowed due to an unknown cause resulting in the discharge of approximately 40 bbls (1,680 gals) of oil and oil field produced wastewater into the secondary containment surrounding the source tank. On 9 December, staff of SEI told Board staff that the discharged fluids were entirely contained within the secondary containment and no waterways or ephemeral stream beds were affected. SEI staff added that cleanup of the affected areas was in-progress and staff of CalGEM and CDFW-OSPR inspected the spill site. On 23 December, SEI staff told Board staff that cleanup of the affected areas was complete and provided a compliance letter issued by CalGEM stating that the site cleanup was conducted in compliance with CalGEM's environmental regulations.

A spill of crude oil occurred on the Tulare Oil facility operated by BRY, in the McKittrick Oil Field on 15 December. According to OES, a power outage caused a valve to malfunction resulting in an overflow from an oil pipeline discharging approximately 35 bbls (1,470 gals) of oil into a fenced and netted pit. On 15 December, BRY staff told Board staff that the discharged fluids were entirely contained within an emergency containment sump covered with a netting. BRY staff added that no ephemeral stream beds or waterways were affected, and that cleanup of the affected sump was in progress.

A spill of crude oil and oil field produced wastewater occurred on the Wasco Roce Facility operated by CRC, in the Belgian Anticline Oil Field on 16 December. According to OES, a storage tank overflowed and discharged approximately 50 bbls (2,100 gals) of oil and 500 bbls (21,000 gals) of oil field produced wastewater to land. On 16 December, CRC staff told Board staff that the discharged fluids affected the secondary containment of the source tank and disturbed areas, but no ephemeral stream beds or natural drainage courses have been affected by the spill. On 17 December, CRC staff told Board staff that cleanup of the affected areas was completed and provided photographs of the affected areas before and after cleanup.

A spill of crude oil and oil field produced wastewater occurred on the Tejon Lease operated by Chevron USA, Inc. (Chevron), in the Kern River Oil Field on 20 December. According to OES, a mechanical failure in a pumping unit on a production well caused the discharge of approximately 2 bbls (84 gals) of oil to land affecting an ephemeral stream bed. On 20 December, Chevron staff told Board staff that staff of CDFW-OSPR inspected the spill site, and that cleanup of the affected areas was in-progress. Chevron staff told Board staff that cleanup was completed on 22 December and staff of CDFW-OSPR conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup.

A spill of processed oil occurred on the Fairfield Shipping facility operated by BRY, in the Midway Sunset Oil Field on 21 December. According to OES, a human error caused a storage tank to overflow resulting in the discharge of approximately 277 bbls (11,634 gals) of oil to land. On 21 December, BRY staff told Board staff that the discharged oil was entirely contained within the secondary containment of the source tanks and no

ephemeral stream beds of waterways were affected by the spill. BRY staff provided Board staff with photographs of the areas affected by the spill and stated that cleanup was completed on 23 December.

A spill of crude oil occurred on the Pan Fee Lease operated by BRY, in the Midway Sunset Oil Field on 24 December. According to OES, a power outage caused a valve to malfunction causing a storage tank to overflow and discharge approximately 60 bbls (2,520 gals) of oil to land. On 24 December, BRY staff told Board staff that the discharged oil was entirely contained within the secondary containment of the source tanks and no ephemeral stream beds of waterways were affected by the spill. BRY staff added that the free-standing oil was recovered from the affected containment and cleanup was in-progress to remove oil-affected soil. BRY staff provided Board staff with photographs of the areas affected by the spill. Board staff will continue to follow-up on this incident to ascertain the status of cleanup.

Board staff will pursue enforcement on the above spills where appropriate.

UIC PROGRAM

During the period from 2 November 2021 to 3 January 2022, staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Aquifer Exemption – Staff and State Water Board staff met with California Geologic Energy Management Division (CalGEM) and the oil field operators (Operators) to discuss the locations of potential conduits, and the need to a conduit analysis in the proposed Aquifer Exemption areas. Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Kern River Aquifer Exemption – Staff and State Water Board staff met with CalGEM to discuss the proposed changes to the aquifer exemption boundary for the Chanac Formation. CalGEM provided a revised map that included the boundary agreed upon. In addition, Staff and State Water Board staff met with CalGEM and the operators to discuss the locations of potential conduits, and the need to a conduit analysis in the proposed Aquifer Exemption areas. Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Round Mountain South Aquifer Exemption – Staff and State Water Board staff received additional information regarding the proposed aquifer exemption for the Round Mountain South Oil Field. Staff and State Board staff are reviewing the additional information provided.

Deer Creek Aquifer Exemption –Staff continues to provide comments to the State Water Board regarding the proposed aquifer exemption application.

Mt. Poso Dorsey Area Aquifer Exemption –Staff and State Water Board staff met with CalGEM and the Operators to discuss conducting a conduit analysis. Staff and State

Board staff reviewed the conduit analysis provided and provided CalGEM with questions and concerns regarding the conduit analysis and the revised application.

UIC PROJECT REVIEWS

Staff received information in response to five 13267 Orders requiring Operators to perform hydrogeologic investigations in the South Belridge and Lost Hills Oil Fields. Additional information was provided regarding two hydrogeological characterization reports for the Lost Hills Oil Field, and a hydrogeological characterization report was provided for the South Belridge Oil Field. Staff is reviewing the information provided. In addition, Staff issued a notice of violation to one operator for insufficient information provided.

Staff issued four letters to Operators determining that no further action was required regarding 13267 orders issued in 2015.

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

Staff issued seven no objection letters and memorandums for UIC projects in the Antelope Hills, Kern Front, Kern River, Cymric, McKittrick, and Midway-Sunset Oil Fields.

Staff sent three letters and memorandums requesting additional information for UIC projects in the Cymric, Kern River, and Poso Creek Oil Fields.

Staff received responses to reviews performed for proposed waterflood projects in the Lost Hills Oil Field. Staff are reviewing the information provided.

Staff received project information relating to requests to conduct steam injection projects in the Poso Creek, and Midway-Sunset Oil Fields. Staff are reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report, Staff reviewed six well stimulation treatment applications and submitted comments to the State Water Resources Control Board.

Staff reviewed groundwater monitoring reports for: California Resources Corporation's Kettleman Middle Dome Oil Field operations, California Resources Corporation's Rose

Oil Field operations at their Lincoln 10H and Lincoln 12H production wells; and, California Resources of Elk Hills operations at their North Coles Levee Oil Field at oil production well 42-31. Staff also reviewed submittals associated with a groundwater mound near monitoring well 12G1 in Aera LLC's South Belridge Oil Filed. Central Valley Water Board staff conveyed draft comments to State Water Resources Control Board staff.

Staff are currently reviewing groundwater monitoring reports for: Aera LLC's Lost Hills Oil Field operations, Chevron USA Inc.'s Lost Hills Oil Field operations, Seneca Resources' Lost Hills Oil Field operations, Berry Petroleum Company, LLC's South Belridge Oil Field operations, California Resources Production Corporation's Buena Vista Nose area operations, California Resources of Elk Hills North Coles Levee Oil Field operations at production wells 32-30 and 88-29. Staff are also continuing the review of submittals associated with the presence of groundwater mounds associated with Chevron USA Inc.'s operations in the Lost Hills Oil Field, and in the northern portion of Aera LLC's operations near monitoring well 12G1 in the South Belridge Oil Field.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

(ILRP) QUARTERLY STAKEHOLDER MEETINGS

Central Valley Water Board staff holds regular ILRP stakeholder meetings to provide an open forum for communication between staff, agricultural coalitions, environmental justice groups, and other interested parties in Central Valley Region. The last meeting was held on January 19th and focused on the Nitrate Control Program Management Zone development and implementation.

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).

ILRP COMPLIANCE, OUTREACH & ENFORCEMENT

DATA MANAGEMENT AND CROSS PROGRAM COORDINATION

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

DRINKING WATER WELL MONITORING OUTREACH

Drinking water well monitoring continues for members in the East San Joaquin Water Quality Coalition (ESJWQC) and coalitions in the Tulare Lake Basin. ESJWQC members were required to monitor drinking water wells on enrolled parcels starting in 2019. Tulare Lake Coalition members were required to start sampling in 2020. In 2021 members of the San Joaquin & Delta, Grasslands and Westside San Joaquin River Coalitions started their monitoring. In 2022, the Sacramento Valley will begin monitoring their drinking water wells. Board staff will be sending out targeted outreach materials to members in the coming weeks.

Board staff is tracking notification submittals and conducting follow-up as needed to ensure that members/landowners with wells exceeding the nitrate drinking water standard are notifying users accordingly. Between 1 November and 31 December, 998 samples have been submitted to GeoTracker by 597 members/landowners from ESJWQC, San Joaquin & Delta and the Western San Joaquin River Coalitions. Approximately 16 percent of samples exceeding the drinking water standard. During the same period, staff sent 203 emails/phone calls to members reminding them of the notification requirement. Out of 1351 drinking water well exceedances staff has received 1344 notification responses. Staff continues to follow up with phone calls, emails, letters, and notices of violation, as necessary, for inadequate notification action.

In the Tulare Lake Basin Area, Board staff is continuing to work with members through emails, phone calls, and letters to ensure users of impacted wells are properly notified. As of the end of December 2021, there were 1,619 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 1,591 signed Drinking Water Notification Templates. From 1 November through 31 December staff have contacted 57 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

On 18 November 2021, Robert Ditto and Gurbinder Dhaliwal gave a presentation on the new drinking water well monitoring requirements to approximately 65 Sutter County growers.

On 1 December 2021, Robert Ditto presented information on the new drinking water monitoring requirements to approximately 250 growers in the Butte County.

On 16 December 2021, Robert Ditto presented information on the new drinking water monitoring requirements to approximately 65 Sutter County growers.

On 12 January 2022, Sue McConnell provided a presentation at the 76th Annual California Resource Conservation District Conference on the Irrigated Lands Regulatory Program.

Region-wide, there have been 11,764 samples submitted to GeoTracker and approximately 23.67% exceed the nitrate MCL (as of 18 January 2022).

REMINDER LETTERS FOR FAILURE TO SUBMIT THE FARM EVALUATION AND/OR NITROGEN MANAGEMENT PLAN SUMMARY REPORTS

Water Board staff sends reminder letters prior to notices of violation to members who have failed to submit their Farm Evaluation and/or Nitrogen Management Summary Reports by the Board-approved due dates. Coalition areas not shown had no reminder letters mailed during the reporting period.

Coalition Area	Reminder Letters sent Nov 1- Dec 31
East San Joaquin	402
San Joaquin & Delta	157
Total	559

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. 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 Nov 1- Dec 31
Sacramento Valley	16
Total	16

ENFORCEMENT FOLLOW-UP

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program and ensuring late member reports are submitted to the Coalitions. There was an increase in late reports this year due to new member reporting requirements. In 2021 the new Farm Evaluation and Irrigation and Nitrogen Management Plan Summary Reports are required for all members. For late reports, reminder letters are issued followed by NOVs. After issuance of 13260 directive letters, Notices of Violation (NOV) are issued as needed. There is no enforcement occurring beyond NOVs currently. Staff works closely with the agricultural water quality coalitions throughout the compliance and enforcement process.

SACRAMENTO RIVER WATERSHED COALITION GROUPS

ILRP ACRONYMS

Acronyms	Meaning
AMR	Annual Monitoring Report
AMPINAR	Annual Management Practice Implementation and Nitrogen Application Report
GAR	Groundwater Assessment Report
GW	groundwater
MPC	Management Plan Completion
MPIR	Management Practices Implementation Report
MPU	Monitoring Plan Update
NCP	Nitrate Control Plan
QAPP	Quality Assurance Project Plan
RPE	Rice Pesticides Evaluation
SW	surface water

CALIFORNIA RICE COMMISSION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
6/24/2021	Rice QAPP Update	Under review	
10/11/2021	RPE 2021 Update	Under review	
10/28/2021	NCP Initial Assessment	Under review	CV-SALTS requirement
12/20/2021	2021 AMR	Under review	

SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
9/13/21	GAR Update	Under review	
11/19/21	SW Monitoring Reduction Request	Under review	
12/29/21	AMPINAR	Complete	Conditional Approval
1/14/22	Selenastrum MPC, Ulatis Ck	Approved	

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

ILRP ACRONYMS

Acronyms	Meaning
SW	surface water
AMR	Annual Monitoring Report
AMPINAR	Annual Management Practice Implementation and Nitrogen Application Report
CVGMC	Central Valley Groundwater Monitoring Collaborative
GAR	Groundwater Assessment Report
MPU	Monitoring Plan Update
QAPP	Quality Assurance Project Plan
TMDL	Total Maximum Daily Load

EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/1/2021	Quarterly Monitoring Data Report	Reviewed	April 1 through June 30, 2021 monitoring period
12/1/2021	2022 Water Year QAPP amendment	Approved 01/12/22	

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/27/21	Chlorpyrifos and Diazinon Revised Monitoring Schedule	Approved	Revises TMDL monitoring schedule per 10/13/21 Monitoring Reduction Approval.
11/19/21	Site Swap Request	Approved 11/29/21	Coalition request to swap site due to unsafe sampling conditions.
11/30/21	AMPINAR	Approved 1/10/22	
12/16/21	2022 Water Year QAPP amendment	Under Review	Revises changes to pesticide monitoring quality objectives

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/28/2021	SW Management Plan amendment	approved	
12/14/2021	MPU 2022-23	Under review	
1/18/2022	QAPP Update	Under review	

GRASSLAND DRAINAGE AREA COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/2021	GAR Update	Under review	CVGMC effort
12/13/2021	2020 AMR	Under review	

TULARE LAKE BASIN COALITION GROUPS

ILRP ACRONYMS

Acronyms	Meaning
AMR	Annual Monitoring Report
CGQMP ASR	Comprehensive Groundwater Quality Management Plan Annual Status Report
QAPP	Quality Assurance Project Plan

CAWELO WATER DISTRICT COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/2021	3 rd Qtr Surface Water Monitoring Data	Pending	

KAWEAH BASIN WATER QUALITY ASSOCIATION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/01/2022	3 rd Qtr Surface Water Monitoring Data	Pending	

KERN RIVER WATERSHED COALITION AUTHORITY

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/04/2021	4 th Qtr Surface Water Monitoring Data	Pending	

KINGS RIVER WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/01/2021	CGQMP ASR	Pending	
12/01/2021	3 rd Qtr Surface Water Monitoring Data	Pending	

WESTLANDS WATER QUALITY COALITION

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
10/01/2021	2020 AMR	Review sent 12/30/2021	Satisfied General Order requirements
12/28/2021	2022 QAPP Amendment	Under Review	

OTHER PROJECTS

CV-SALTS IMPLEMENTATION

On 14 December, 2021, Central Valley Water Board Executive Officer and Staff (Patrick Pulupa, Adam Laputz, Sue McConnell, Susan Fregien, Ashley Peters, Anne Walters, and Jennie Fuller) attended a meeting with the California Rice Commission to discuss their draft nitrate initial assessment for the Nitrate Control Program.

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.

Staff has observed that there are several EDD data sets that have not been fully uploaded to CEDEN. In January, staff submitted a list to OIMA to reconcile those missing records.

ILRP ACRONYMS

Acronyms	Meaning
AMR	Annual Monitoring Report
CVGMC	Central Valley Groundwater Monitoring Collaborative
PEP	Pesticide Evaluation Protocol
QAPP	Quality Assurance Project Plan

CENTRAL VALLEY GROUNDWATER MONITORING COLLABORATIVE

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
11/30/2021	5-Year Assessment Report	Under review	Collaborative effort of 10 Coalitions
1/5/2022	QAPP Amendment	Under review	See above.

GRASSLAND BYPASS PROJECT

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
07/28/2021	13267 Technical and Monitoring Report	Under review	Revision received 12/15/2021
12/16/2021	2022 PEP Update	Under review	

NORMAN'S NURSERY

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
			No updates this month

RICE PESTICIDES PROGRAM

Deliverables and activities:

Submittal Date	Item	Review Status	Notes
12/20/2021	2021 AMR and 2022 Recommendations	Approved 1/13/2022	

NON-POINT SOURCE (NPS)

CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

Board staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations. Responsible parties include: Lake County, Lake County MS4 Permittees, US Forest Service, US Bureau of Land Management, and Lake County Farm Bureau. Board staff has sent enforcement orders to each responsible party to obtain this information. To date, all responsible parties have submitted deliverables, which are being reviewed to determine compliance with specified load allocations. The information submitted by the responsible parties was summarized in an updated Technical Memorandum released on 22 September 2021, which is available on the Clear Lake Nutrient TMDL website.

The Board has initiated the process to revise the Nutrient TMDL. The revisions will incorporate much of the information currently being gathered through studies and projects in the watershed, including the Board's Environmental Driver's study, the UC Davis study, Tribal monitoring data, and other stakeholder efforts. Current information regarding the status of the TMDL revision can be found under the TMDL Basin Planning section of the EO Report.

The Blue Ribbon Committee for the Rehabilitation of Clear Lake met remotely on 02 December 2021. At the meeting the Committee members approved the 2021 Annual Report for the California Legislature. The next meeting will be scheduled in March 2022. 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/>

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

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).

CANNABIS

CANNABIS GENERAL ORDER ENROLLMENT AND DEVELOPMENTS

Staff are currently focusing on increasing enrollments and enforcing upon the most egregious sites in the Targeted Priority Watersheds in Nevada County through 2021. Staff have developed a new enforcement tracker and are revising the permitting and compliance trackers with the assistance of the AGPA. Staff continue to enroll dischargers into our General Order. Division of Water Quality (DWQ) has taken over responsibilities for issuing Notices of Applicability (NOAs).

Cannabis 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.)

Total Enrollments by County								
County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Calaveras		29	3		54	6	6	98
Colusa		1			2		3	6
Contra Costa					1		2	3
El Dorado		3			3			6
Fresno					6		4	10
Kern							2	2
Kings					2		1	3
Lake		139	3	7	269	3	55	476
Merced							7	7
Nevada	2	291	4		23		27	347
Sacramento							160	160
San Joaquin					1		3	4
Shasta							14	14

Total Enrollments by County								
County	Tier 1H	Tier 1L	Tier 1M	Tier 2H	Tier 2L	Tier 2M	CE	Total Active Enrollments
Sierra		2						2
Siskiyou							5	5
Solano							4	4
Stanislaus		7			3		19	29
Tulare							6	6
Yolo		18			46		2	66
Yuba							2	2
Totals	2	490	10	7	410	9	322	1250

CANNABIS OUTREACH

Staff have conducted three virtual outreach events since the last Board Meeting. Two of these outreach events were in Nevada County and one was covered winterization requirements and included all permissive counties in Region 5.

COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

The first enrollment enforcement effort for 2021 was focused on a cluster of 12 sites in the Squirrel Creek Watershed in Nevada County. Staff issued four Notices of Violation (NOVs) in October 2021 and will continue to follow up with progressive enforcement. If dischargers do not resolve the 13260 violation, they will be referred to law enforcement and added to the Nevada County Priority Site List for potential warrant inspections.

13260-Order Project Analysis		
Status	Total	Next Steps
Enrolled	2	
No longer cultivating	6	Verified through aerial imagery
No response	4	NOVs issued 10/23/2021

COMPLIANCE

Staff work closely with dischargers to answer site specific questions related to the General Order to encourage compliance. There were no compliance inspections performed during October and November.

ENFORCEMENT

Staff are performing follow up enforcement activities on the remaining cases that were brought forward after the backlog reduction task. Staff are in the process of preparing enforcement documents and following up on inspections that took place during 2021.

Inspection Reports issued in Nevada County:

- Southwick Construction, Nevada County, delivered 10/22/2021
- Linam Property, Nevada County, delivered 10/22/2021

Inspection Reports issued in Shasta County:

- White Property, Shasta County, delivered 10/15/2021
- Glanzer Property, Shasta County, delivered 10/28/2021

13267s Issued in Shasta County:

- NOV Letter, Glanzer Property, Shasta County, delivered 10/28/2021

13267s Issued in Nevada County:

- NOV Letter, Chandler Property, Nevada County, delivered 11/08/2021
- NOV Letter, Vitello Property, Nevada County, delivered 11/08/2021
- 2 NOV Letters in draft for Nevada County sites: Southwick Construction and Linam Property

GRANTS

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

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

(www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml).

The 2022 Grant Solicitation for the 319(h) program has ended. State Board and the Regions are in the process of reviewing grant proposals. [For more information, please visit the NPS website](#)

(www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml).

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

IMPLEMENTATION OF BEST MANAGEMENT PRACTICES IN THE DELTA: A COMPREHENSIVE PESTICIDE MANAGEMENT PROJECT TO IMPROVE WATER QUALITY (\$399,407) (H4)

The Delta Conservancy will develop, certify, and implement Farm Water Quality Improvement Plans through the Fish Friendly Farming Program to reduce the generation and transport to waterbodies of agricultural chemicals, sediment, and nutrients from sites within the Sacramento-San Joaquin Delta. A time extension was requested in September 2020 due to delays with subcontracting and COVID restrictions. The request was approved, and the grant was extended to February 2024. (Closing 2/28/2024)

SOUTH FORK BATTLE CREEK SEDIMENT REDUCTION AND WATER QUALITY ENHANCEMENT PROJECT (\$603,654) (H4)

Tehama County Resource Conservation District (TCRCD) will implement erosion and sediment control measures for a 3.5-mile section of Ponderosa Way in Eastern Tehama County, north of State Route 36E. The project will minimize discharges of sediment to South Fork Battle Creek. (Closing 2/28/2023)

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

The American River Conservancy (ARC) has thinned approximately 243 acres of merchantable timber under a CALFIRE Fire Prevention Pilot Project Exemption in the Greyhorse valley. Thinning operations have met and exceeded grant requirements and currently the grantee is looking at upgrading the road network throughout the project area. Due to high wildfire danger during the summer of 2020, the grantee failed to reach a 400-acre thinning goal. The grantee hopes that this goal can be surpassed in the 2021 season if weather conditions permit. At this time, the grantee has bid approximately 600 acres for completion during the 2021 season. ARC has secured permits for road work and a bridge removal in Greyhorse valley and thinning Contractors mobilized equipment and began mastication work on 1 June 2021. Due to a number of factors such as COVID related delays, lack of contractor capacity, lack of resource availability (parts, materials, extended wait periods for mechanical support on equipment) and limited work days due to fire danger restrictions ARC will likely be seeking a time extension work completion requirements. ARC will continue to work to mitigate these issues to complete the project within a reasonable timeframe. (Closing 3/30/2022)

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

The Western Shasta Resource Conservation District (WSRCD) has completed a 23-mile road assessment inventory in the North Fork Battle Creek watershed. As a result, the grantee compiled a Final Action Plan describing 90 site-specific, road-related sediment inputs from the prioritized road assessment inventory. A technical advisory committee (TAC) and subsequent field workshop were conducted in July 2020, resulting in selection of demonstration sites. The grantee and Shasta County Public Works participated in on-site training that resulted in completion of two demonstration sites along Rock Creek Road and Forward Mills Road during Summer 2020. From October 2020 to May 2021, the grantee developed a construction bid package, advertised a request for competitive bid proposals, obtained public agency permits (California Department of Fish and Wildlife and Central Valley Regional Water Quality Control Board), and secured an encroachment permit from Shasta County to allow implementation of additional demonstration sites along Rock Creek Road. Time delays experienced during the competitive bid proposal and permitting processes, due to COVID-19 pandemic restrictions, prompted the grantee to request a time extension to 28 February 2022. The time extension request was approved on 15 June 2021. The additional demonstration sites were completed in July 2021. (Closing 3/31/2022)

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

The purpose of this project is to implement erosion control treatments to reduce sediment delivery to streams from Forest Service system roads, unauthorized roads, legacy skid trails, and landings within the North Yuba River Watershed. American Rivers Inc. have inventoried approximately 67 miles of roads, skid trails, and landings within the project area and have prepared an Action Plan to implement at least 15 miles of erosion control treatments. The grantee completed implementation work for the Deer Creek North Yuba River Watershed Sediment Reduction Project on 16 September 2020. Work was completed without any major delays or deviations. Analysis of pre- and post-project monitoring data has been completed and a final project inspection and certification site visit was conducted on 9/20/21. A final project report is currently being prepared. (Closing 2/28/2022)

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

The purpose of this project is to address the discharge of sediment from Upper Bidwell park roads and trails into Big Chico Creek Watershed through the implementation of a Sediment Source Assessment and Treatment Plan. The grant agreement was executed in early July 2020. The grantee has completed and submitted an Initial Study/Mitigated Negative Declaration for the project. The public comment period closed on 2 November 2021. The grantee has also completed a draft 401 Certification and was submitted to Central Valley Water Board staff for the 30-day pre-filing review. Final construction bid

packet is being prepared and will be publicly noticed after completion of 401 certification permitting activities. (Closing 6/30/2023)

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

The purpose of the project is to fix select priority Significant Existing and Potential Erosion Sites (SEPES) on the Eldorado National Forest (ENF) that were identified on haul routes associated with timber sales implemented under the King Fire Restoration Project (KFRP). Stream crossing structure replacement, road drainage improvements, road reconditioning, armoring of structures, rebuilding of fill slopes, and landslide removal are among the work expected. Funding will be used to replace multiple large failed and at-risk stream crossing structures with an emphasis on designing crossings to accommodate a 100-year event, plus associated sediment, and debris. CEQA has been completed. A Notice of Exemption was approved and concurred by State Board in July and filed with the Clearinghouse on August 26th, 2020. The grantee has recently submitted their project assessment and evaluation plan as well as their proposed schedule of operations. The grantee is currently working on finalizing design plans which will be submitted to the Central Valley Water Board for review. They are anticipating it will be finalized and out for bid by April 2022 and expect work to begin in May of 2022. (Closing 6/30/2023)

**PUBLIC/DISADVANTAGED COMMUNITY/
TRIBAL OUTREACH**

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

*On 2 December 2021, Robert L’Heureux met virtually with staff from the Buena Vista Rancheria of Me-Wuk Indians to discuss TBUs and listen to the tribe’s water quality concerns in the geographic area of the tribe’s lands. Staff subsequently followed-up with the tribe and provided contact information for additional staff in Central Valley Water Board programs of interest to the tribe.

On 3 December 2021, Janis Cooke and Karen Atkins met with Restore the Delta to discuss data sharing and data needs in the next year regarding HABs in the Delta.

*On 16 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 16 December 2021, Robert L’Heureux attended part of a TBU Planning Caucus hosted by California Indian Environmental Alliance (CIEA). Representatives from several tribes were present including the Pit River Tribe, the Big Valley Band of Pomo Indians, Graton Rancheria, and Robinson Rancheria. Central Valley Water Board Staff

provided an update on adding the TBU definitions to the Water Quality Control Plans for the Region as well as efforts towards designating waters in the Region for TBUs.

On 16 December 2021 George Low, an Engineering Geologist with the Central Valley Water Board's Redding office, participated in a Clear Creek Technical Team (CCTT) virtual meeting. The CCTT team is generally comprised of representatives from various Federal and State agencies, and regional resource conservation districts. The purpose of the CCTT is to facilitate the implementation of the Central Valley Project Improvement Act (CVPIA) and CALFED Bay-Delta Program (CALFED) restoration actions to improve salmon and steelhead habitat and the ecosystem on which these species depend on within Clear Creek.

This month's meeting participants discussed a variety of restoration, planning, in stream flow management activities, and funding opportunities. The U.S. Fish and Wildlife Service provided an update on their fisheries monitoring, which included snorkel surveys, weir counts and rotary traps. The U.S. Bureau of Reclamation (USBR) presented an update on flow management operations on Clear Creek. The Bureau of Land Management (BLM) provided an overview recent Beaver monitoring activity within Clear Creek. The Western Shasta Resource Conservation District (WSRCD) provided an overview of their Clear Creek Adaptive Restoration Program Proposal to CVPIA. Don Lindsey with the California Geological Survey presented information regarding fire related debris flow monitoring that has been conducted in the Clear Creek basin. Lastly the group discussed potential project ideas and planning for future restoration actions.

*The January 19th ILRP stakeholder meeting focused on the Nitrate Control Program Management Zone and involved significant participation from the Environmental Justice Community. More information can be found on the [ILRP website](http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.shtml). (www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/stakeholder_advisory_workgroup/index.shtml).

On 19 January, Geoff Rader, Senior Water Resource Control Engineer, provided a summary of proposed 2022 site investigations and a summary of 2020 and 2021 monitoring well installations at the Aerojet Superfund Project's Community Advisory Group meeting.

GENERAL UPDATES TO THE BOARD

CONSTITUENTS OF EMERGING CONCERN (CECS)

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

Board and Central Valley Water Board staff, which was approved by the Delta Regional Monitoring Program (Delta RMP) in July 2018.

Data for Year 1 of the Work Plan was transferred to the California Electronic Data Exchange Network on 27 November 2021. On 14 December 2021, the Delta RMP Board of Directors approved the [Year 1 Data Report](https://deltarmp.org/Water%20Quality%20Monitoring/CECs/Delta%20RMP%20Year%201%20CEC%20Data%20Report_Clean.pdf) (https://deltarmp.org/Water%20Quality%20Monitoring/CECs/Delta%20RMP%20Year%201%20CEC%20Data%20Report_Clean.pdf). Data for the two sampling events that have been completed for Year 2 are being processed. Additional sampling events for spring 2022 are being planned, and the Year 2 Data Report is projected to be completed in late 2022.

Central Valley Water Board staff have also been working with the CEC Initiative (co-led by the State Water Board Division of Water Quality and the Office of Information Management and Analysis) in order to coordinate ongoing CEC monitoring and management efforts in California and provide a framework for prioritization and management of CECs. The Aquatic Science Center presented the CEC Initiative with a draft version of the CECs in California Waters: Occurrence and Risk Screening, which is meant to support the CEC Initiative in compiling existing knowledge and resources. The final version of CECs in California Waters: Occurrence and Risk Screening is expected in March 2022 after the review process is complete.

EMERGENCY RESPONSE ACTIVITIES

The Central Valley Water Board routinely receives and responds to the Governor's Office of Emergency Services (OES) Hazardous Material Spill Reports (Spill Reports). The Redding office has tasked four staff in our office in receiving and if necessary, responding to these OES spill reports.

On 6 January 2022 George Low, an Engineering Geologist with the Central Valley Water Board's Redding office, participated in a Local Emergency Planning Committee (LEPC), Region III virtual meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, plan and provide training for emergency response incidents resulting from chemical hazards within the Region. One of the Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee.

This month's meeting discussed membership recruitment for remaining open member positions on the committee. The meeting also included discussions of upcoming regional trainings, and a presentation from Andrea Rioux, Licensed Clinical Social Worker/Consultant regarding training services she can provide like the First Responder Crisis Team training she currently offers. Participating agencies in attendance also provided brief agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – NOVEMBER 1, 2021 – DECEMBER 31, 2021

PROMOTIONS

Katherine Burger - SR EG (Spec)

Geoff Rader - SR WRCE (Spec)

NEW HIRES:

Daniel Benas - WRCE

Michael DeSmet - EG

Victor Lopez - WRCE

RETIREMENT:

Alex MacDonald - S WRCE

Doug Patteson - S WRCE

David Sholes - SR EG (Sup)

Greg Issinghoff - EG

SEPARATIONS:

None

LEAVE OF ABSENCE:

None

SUMMARY OF POSITIONS:

Total Authorized Positions: 276.2

Total Vacant Positions: 29.2

Sacramento

Authorized Positions: 152.5

Vacancies: 17.2

Fresno

Authorized Positions: 74

Vacancies: 7

Redding

Authorized Positions: 49.7

Vacancies: 5

Temporary Positions

New Hires:

Quinn Little - SA

Elizabeth Kennedy - SA

Separations:

None

TRAINING UPDATES - 1 NOVEMBER 2021 – 31 DECEMBER 2021

Class Title	Number of Attendees
8-Hour HAZWOPER Refresher	50
ASBOG® Exam Review Webinar Course 2021	2
CalEPA Basic Inspector Academy Virtual Class	1
Can we talk...? Introduction to the Complexity of Communication - WLP104	4
Chlorinated Hydrocarbon Remediation Principals and Technologies	26
Conflict Management and Resolution Skills for the Workplace (Non-Supervisory Staff)	1
Contract Manager Training	8
Electronic Writing	5
Emotional Intelligence in Leadership	3
Equal Employment Opportunity (EEO): Workplace Rights and Responsibilities	2
Field Safety Training	4
Hear This! Effective Listening at Work	3
Increasing Productivity at Work	1
Interpersonal Communication Skills	2
Introduction to GIS	4
Introduction to Project Management	5
Introduction to Watershed Assessments	9
Microsoft Excel Level 1	3
Microsoft Excel Level 2	5
Microsoft SharePoint Training	4
Microsoft Word Level 3	4

Class Title	Number of Attendees
RMA 102 - State Records Center Informational Class	3
Stormwater Pollutant Chemistry Monitoring and BMP Effectiveness	4
Strategies for Effective Remote Management of People	1
Transformational Power of Questions	3
Trust & Legitimacy: Understanding Implicit Bias and its Impact on Workplace Diversity and Trust in the Community	2
Water Boards 101: Training Services	1
Webinar on GenX Chemicals Human Health Assessment	2
Working and Thriving in Complex Organizations	2
Trust & Legitimacy: Understanding Implicit Bias and its Impact on Workplace Diversity and Trust in the Community	2
Water Boards 101: Training Services	1
Webinar on GenX Chemicals Human Health Assessment	2
Working and Thriving in Complex Organizations	2

FISCAL UPDATE

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

CONTRACTS

Operational Support Services

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
20-012-150	Capitol Helicopters	Helicopter aerial surveillance services (Rancho Cordova office – SB 901 funds)	6/18/2021	6/30/2023	\$60,000
20-072-150	Air Shasta Rotor & Wing, Inc.	Helicopter aerial surveillance services (Redding office – SB 901 funds)	6/15/2021	6/30/2023	\$95,000
21-060-150	Microbiology International	Rancho Cordova Autoclave Service and Repair	TBD	6/30/2022	\$9,275
22-025-150	Pitney Bowes	Postage Machine Maintenance and Service (Rancho, Redding & Fresno)	7/1/2022	6/30/2024	\$12,194

Water Quality Study/Planning

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
19-003-150-1	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
19-033-150-1	California Department of Water Resources	Support for Sacramento Water Coordinated Monitoring.	12/24/2019	9/30/2022	\$525,000
20-005-150	United States Geological Survey	Development of a three-dimensional model of hydrodynamic mixing within Keswick Reservoir.	12/1/2020	11/30/2023	\$250,000
20-034-150	University of Santa Cruz	Determine the extent of beneficial use impairments caused by cyanobacteria harmful algal blooms (HABs) and toxins produced by the cyanobacteria, called cyanotoxins.	4/15/2021	1/31/2023	\$200,000
21-026-150	United States Geological Survey	To study the occurrence, distribution, and sources of Sacramento Splittail deformities believed to be caused by selenium in the San Joaquin	9/20/2021	3/31/2024	\$100,000

Contract Number	Contractor Name	Description	Start Date	End Date	Amount
		River, Sacramento River and Delta system.			
22-003-150	University of Davis	Tribal Beneficial Uses	TBD	1/31/2025	\$170,000

FUTURE BOARD ACTIVITIES

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

APRIL 2022 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Modesto WQCF (Revised)
- Pilot Travel Center (Revised)
- Rio Pluma Prune Processors (Revised)
- Redding Regional Septage Ponds (Revised)
- City of Farmerville WWTF (Revised)

TITLE 27 PROGRAM

- Forward Landfill (Revised)
- Sierra Pacific Martell Wood Waste Landfill (Revised)
- Buena Vista Landfill (Revised)

NPDES PERMITTING

- City of Chico WPCP Renewal
- City of Modesto WQCF Rescission
- City of Colusa WWTP Renewal
- City of Corning WWTP Renewal
- River Highlands CSD Hammonton Gold Village WWTP Renewal
- City of Nevada City WWTP Renewal
- City of Willows WWTP Rescission

STORM WATER AND WATER QUALITY CERTIFICATION

- Sandrini Solar Project (New dredge/fill WDRs)

JUNE 2022 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Bronco Winery (Revised)
- Palo Cedro WWTF (Revised)
- Rawson Road Septage (Revised)
- Vita-Pakt Citrus (Revised)
- Califia/North Kern Water Storage District (Revised)

TITLE 27 PROGRAM

- Steele Canyon Landfill (Revised)
- North County Landfill (Revised)
- Rio Vista Landfill (Revised)

NPDES PERMITTING

- Sierra Pacific Industries Shasta Lake Division Renewal
- Tehama CSD #1 Mineral WWTP Renewal
- North Valley Regional Recycled Water Program Renewal
- Bear Valley Water District WWTF Renewal
- City of Angels WWTP Renewal
- City of Redding Clear Creek WWTP Renewal
- Mineral WWTP

AUGUST 2022 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Azteca Milling (Revised)

NPDES PERMITTING

- American Valley WWTP Renewal
- Shasta CSA #17 Cottonwood WWTP Renewal

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- General Order for Large WWTF (New)
- General Order for Nut Hullers & Processors (New)
- General Order for Food Processors (New)
- CDCR Mule Creek State Prison (Revised)

- City of Lone Tertiary Treatment Plant (Revised)
- California Dairies Inc., Tipton Milk Processing Facility (Revised)
- City of Arvin WWTF (Revised)
- City Ceres WWTF (Revised)
- City of Dinuba WWTF (Revised)
- City of Madera WWTF (Revised)
- City of Lemoore and Leprino Foods Company, Stone Ranch Property (Revised)
- Morning Star Packing Company (Revised)
- California Concentrates Company (Revised)
- Ratto Brothers (New)
- Teichert Hallwood (Revised)
- Teichert Western Aggregates (Revised)
- Teichert Marysville (Revised)
- Teichert Vernalis (Revised)
- Teichert Woodland (Revised)
- Turner Road Vintners (Revised)
- Woodbridge Winery (Revised)

TITLE 27 PROGRAM

- Sierra Conservation Center (Revised)
- SMS Briners (Revised)
- 28th St and Cannon and Scollan Landfills (Revised)
- Western Regional Landfill (Revised)
- Aquaclear Farms (Revised)
- Dixon Pit Landfill (Revised)

NPDES PERMITTING

- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Boeing GWETS Renewal
- Mountain House CSD WWTP Amendment
- City of Tracy Renewal
- RMK Mine Renewal

ATTACHMENT A

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 16 October 2021 through 31 December 2021

Spill Cause	Count of Spill(s)	Percent (%)
Root Intrusion	127	47.7%
Debris-General	37	13.9%
Grease Deposition (FOG)	32	12.0%
Pipe Structural Problem/Failure	11	4.1%
Rainfall Exceeded Design, I and I (Separate CS Only)	10	3.8%
Operator Error	9	3.4%
Debris from Lateral	7	2.6%
Other (specify below)	7	2.6%
Flow Exceeded Capacity (Separate CS Only)	4	1.5%
Debris-Rags	3	1.1%
Debris-Wipes/Non-Dispersables	3	1.1%
Pump Station Failure-Controls	3	1.1%
Vandalism	3	1.1%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	2	0.8%
Damage by Others Not Related to CS Construction/Maintenance (Specify Below)	2	0.8%
Debris from Construction	2	0.8%
Construction Diversion Failure	1	0.4%
Inappropriate Discharge to CS	1	0.4%
Pump Station Failure-Mechanical	1	0.4%
Surcharged Pipe (Combined CS Only)	1	0.4%
Total	266	100%

ATTACHMENT A

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 16 October 2021 through 31 December 2021

Office	Category 1	Category 2	Category 3	Total
5F	2	5	14	21
5R	2		2	4
5S	44	8	189	241
Total	48	13	205	266

ATTACHMENT A

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

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

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

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

Sanitary Sewer Overflow (SSO) Spills 16 October 2021 through 31 December 2021

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Modesto City	Modesto CS	877086	Stanislaus	Yes	211,654	211,654	10/24/2021	Flow Exceeded Capacity (Separate CS Only)
5S	Modesto City	Modesto CS	877296	Stanislaus	Yes	211,650	211,650	10/30/2021	Construction Diversion Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877235	Sacramento	Yes	104,830	104,811	10/24/2021	Inappropriate Discharge to CS
5F	Groveland CSD	Groveland CS	878227	Tuolumne	Yes	57,320	57,320	12/19/2021	Other (specify below)

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Stockton City MUD	City of Stockton MUD CS	877056	San Joaquin	Yes	50,001	50,001	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)
5R	Red Bluff City	Red Bluff CS	877267	Tehama	Yes	21,286	21211	10/23/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877236	Sacramento	Yes	18,531	18514	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Regional CSD	Sacramento Regional CS	877200	Sacramento	Yes	18,000	17992	10/24/2021	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878107	Sacramento	Yes	10,578	9009	11/27/2021	Grease Deposition (FOG)
5S	El Dorado Irrigation District	Deer Creek CS	877276	El Dorado	Yes	9,000	9000	10/26/2021	Pipe Structural Problem/Failure
5S	Sacramento City	City of Sacramento Utilities CS	878296	Sacramento	Yes	7,300	7300	12/23/2021	Root Intrusion

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878316	Sacramento	Yes	6,825	6824	12/23/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877420	Sacramento	Yes	6,499	6463	10/22/2021	Grease Deposition (FOG)
5S	El Dorado Irrigation District	Deer Creek CS	877256	El Dorado	Yes	6,000	6000	10/25/2021	Pipe Structural Problem/Failure
5S	Sacramento Regional CSD	Sacramento Regional CS	878327	Sacramento	Yes	5,096	4776	12/23/2021	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877137	Sacramento	Yes	3,951	3894	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877421	Sacramento	Yes	3,210	3174	11/2/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877439	Sacramento	Yes	3,854	2242	11/2/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877138	Sacramento	Yes	1,404	1404	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Roseville City	Dry Creek CS	877050	Placer	Yes	1,357	1357	10/24/2021	Flow Exceeded Capacity (Separate CS Only)

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877659	Sacramento	Yes	1,503	1305	11/16/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878116	Sacramento	Yes	924	901	12/8/2021	Debris-General
5R	Red Bluff City	Red Bluff CS	878478	Tehama	Yes	900	900	12/30/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877262	Sacramento	Yes	1,016	715	10/21/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877864	Sacramento	Yes	693	669	11/25/2021	Root Intrusion
5S	Grass Valley City	Grass Valley City CS	877673	Nevada	Yes	600	600	11/20/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878046	Sacramento	Yes	610	498	12/8/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878112	Sacramento	Yes	437	430	12/10/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877596	Sacramento	Yes	379	363	11/10/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877449	Sacramento	Yes	777	359	10/31/2021	Root Intrusion

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sutter Creek City	Sutter Creek CS	877804	Amador	Yes	300	300	11/24/2021	Grease Deposition (FOG)
5S	South Placer MUD	South Placer Mud CS	877375	Placer	Yes	300	297	10/31/2021	Debris from Construction
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878249	Sacramento	Yes	696	276	12/21/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878425	Sacramento	Yes	316	238	12/26/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878419	Sacramento	Yes	405	204	12/24/2021	Grease Deposition (FOG)
5S	Ione City	City of Ione CS	878180	Amador	Yes	250	200	12/19/2021	Pump Station Failure-Controls
5S	Placerville City	Hangtown Creek CS	878312	El Dorado	Yes	250	200	12/23/2021	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877135	Sacramento	Yes	204	146	10/22/2021	Debris-General
5S	Stockton City MUD	City of Stockton MUD CS	878261	San Joaquin	Yes	125	125	12/22/2021	Grease Deposition (FOG)

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878331	Sacramento	Yes	114	109	12/23/2021	Grease Deposition (FOG)
5F	County of Fresno	Fresno Co 40-Shaver Springs CS	878485	Fresno	Yes	2,100	100	12/13/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877031	Sacramento	Yes	120	100	10/21/2021	Debris-General
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878282	Sacramento	Yes	82	76	12/23/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878430	Sacramento	Yes	46	42	12/29/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877136	Sacramento	Yes	75	40	10/23/2021	Root Intrusion
5S	Grass Valley City	Grass Valley City CS	878128	Nevada	Yes	40	38	12/15/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878420	Sacramento	Yes	15	10	12/25/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878434	Sacramento	Yes	12	6	12/29/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877235	Sacramento	Yes	104,830	104,811	10/24/2021	Inappropriate Discharge to CS
5F	Groveland CSD	Groveland CS	878227	Tuolumne	Yes	57,320	57,320	12/19/2021	Other (specify below)

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Stockton City MUD	City of Stockton MUD CS	877056	San Joaquin	Yes	50,001	50,001	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)
5R	Red Bluff City	Red Bluff CS	877267	Tehama	Yes	21,286	21211	10/23/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877236	Sacramento	Yes	18,531	18514	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Regional CSD	Sacramento Regional CS	877200	Sacramento	Yes	18,000	17992	10/24/2021	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878107	Sacramento	Yes	10,578	9009	11/27/2021	Grease Deposition (FOG)
5S	El Dorado Irrigation District	Deer Creek CS	877276	El Dorado	Yes	9,000	9000	10/26/2021	Pipe Structural Problem/Failure
5S	Sacramento City	City of Sacramento Utilities CS	878296	Sacramento	Yes	7,300	7300	12/23/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	878316	Sacramento	Yes	6,825	6824	12/23/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877420	Sacramento	Yes	6,499	6463	10/22/2021	Grease Deposition (FOG)
5S	El Dorado Irrigation District	Deer Creek CS	877256	El Dorado	Yes	6,000	6000	10/25/2021	Pipe Structural Problem/Failure

ATTACHMENT A

REGION	AGENCY	Collection System	Spill Event ID	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Spill Date	Spill Cause
5S	Sacramento Regional CSD	Sacramento Regional CS	878327	Sacramento	Yes	5,096	4776	12/23/2021	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877137	Sacramento	Yes	3,951	3894	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877421	Sacramento	Yes	3,210	3174	11/2/2021	Grease Deposition (FOG)
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877439	Sacramento	Yes	3,854	2242	11/2/2021	Root Intrusion
5S	Sacramento Area Sewer District	Sacramento Area Sewer District CS	877138	Sacramento	Yes	1,404	1404	10/24/2021	Rainfall Exceeded Design, I and I (Separate CS Only)