

EXECUTIVE OFFICER'S REPORT

AUGUST 2021

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

Patrick Pulupa, Executive Officer



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SUCCESS STORIES

SITE CLEANUPS

SACRAMENTO

CONDITIONAL 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. CCA is no longer used at the facility, treated lumber is only stored indoors, and WWT has implemented an industrial wastewater reuse system to minimize process effluent. 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 and a final No Further Action will be granted once WWT submits a well destruction report. [JJT]

NO FURTHER ACTION DETERMINATION, RICE TERMINALS, 2828 PORT ROAD A, PORT OF STOCKTON, SAN JOAQUIN COUNTY

The Rice Terminals site is situated in the Port of Stockton's East Complex, east and adjacent to the San Joaquin River and historically stored and distributed bulk urea ammonium nitrate fertilizer solutions, primarily urea ammonium nitrate and calcium ammonium nitrate. In 2004, soil and groundwater investigations indicated impacts from Total Kjeldahl Nitrogen, ammonia and nitrate as a result of past business operations. This included storage of the fertilizer solutions in six onsite above ground storage tanks ranging in capacity from approximately 100,000 gallons to 3,000,000 gallons. Facility containment upgrades to address spills and product losses were constructed and included a concrete loading area with curb drainage facilities plumbed to a storage area as well as plumbing the washout area drainage to storage tanks.

Based on decreasing trends in concentrations of ammonium and nitrate in both groundwater and soil between 2004 to 2020, nitrogen levels appear to be attenuating by natural/biochemical means. Elevated levels of ammonium and nitrate concentrations in vadose zone soils have decreased one to two orders of magnitude over 10 years and do not appear to present either a threat to water quality, human health, or the

environment. Based on the rate of groundwater degradation, onsite monitoring well nitrate concentrations in groundwater are expected to reach the MCL of 10 milligrams per liter (mg/L) by 2023 and ammonium concentrations are expected to reach the EPA Health Advisory Limit of 30 mg/L by 2021. A No Further Action Determination was made on 30 June 2021. [NC]

**FORMER ARCO STATION #6100, 2151 COUNTRY CLUB BOULEVARD,
STOCKTON, SAN JOAQUIN COUNTY, LUST CASE #390265**

In May 1987, a waste oil tank of unknown size was removed from the Site and in November 1990 one 10,000-gallon and four 6,000-gallon unleaded gasoline USTs were removed from the Site. Soil sampling in the vicinity of these tanks indicated that a release had occurred at the Site. Between 1990 and 2018 various consultants installed/advanced a total of 20 monitoring wells, 20 vapor extraction wells, 6 air-sparge wells, and 50 soil and groundwater borings to assess and cleanup petroleum hydrocarbons beneath the Site. Remedial actions at the Site, including excavation, LNAPL removal, soil vapor extraction, and air-sparging, removed a total of **184,450 pounds** of hydrocarbons from the subsurface. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low Threat Underground Storage Tank Case Closure Policy* (LTCP), and the case was closed on 17 June 2021.

**FORMER QUICK-N-SAVE MARKET, 2103 COUNTRY CLUB BLVD, STOCKTON,
SAN JOAQUIN COUNTY, LUST CASE #391007**

In 2000, the responsible party, Faiza Mona Tariq, removed 4 USTs from the Site: one 6,000-gallon, two 4,000-gallon, and one 2,000-gallon gasoline USTs. Between 2007 and 2017 the RP and his consultants installed/advanced a total of 10 monitoring wells, 6 soil vapor extraction wells, 8 air-sparge wells, 4 soil gas wells, and 11 soil and groundwater borings on and around the Site property to assess and cleanup the Site release. Remediation at the Site, including soil vapor extraction and air-sparge removed approximately **5,800 pounds** of hydrocarbons from the subsurface. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low Threat Underground Storage Tank Case Closure Policy* (LTCP), and the case was closed on 29 June 2021.

**CRYSTAL VIEW STATION, 6529 PONY EXPRESS TRAIL, POLLOCK PINES, EL
DORADO COUNTY, LUST CASE #090060**

In the 1980's the Site owner, Mr. Tooraj Agahi, abandoned a 2,000-gallon gasoline UST in-place at the Site. In 1994 Mr. Agahi removed 5 USTs from the Site: one 8,000-gallon, one 5,000-gallon, and one 4,000-gallon gasoline USTs; one 2,000-gallon kerosene UST; and the previously abandoned-in-place 2,000-gallon UST. Also, in 1994, Mr.

Agahi abandoned a 10,000-gallon diesel UST in-place due to its location under the corner of the station building. Mr. Agahi removed approximately 1,000 cubic yards of impacted soil during the 1994 UST removals, and another 300 cubic yards of impacted soil in 2006. Between 2002 and 2008, Mr. Agahi and his consultants installed/advanced a total of 16 monitoring wells, 2 soil vapor extraction wells, and 8 soil and groundwater borings to assess and cleanup the Site release. Remediation at the Site, including excavation and soil vapor extraction removed more than **13,470 pounds** of hydrocarbons from the subsurface. While several domestic water supply wells in the area were impacted by the release, the impacts were periodic, and these wells are either no longer impacted or are used for irrigation purposes only. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low Threat Underground Storage Tank Case Closure Policy* (LTCP), and the case was closed on 29 June 2021.

CHEVRON STATION #9-4054, 2103 COUNTRY CLUB BOULEVARD, STOCKTON, SAN JOAQUIN COUNTY, LUST CASE #390089

In 1983 tank integrity testing revealed the product manifold piping system was leaking. In 1989, the Site consultant removed 5 gasoline USTs and 1 waste oil UST from the Site and razed the Site. Between 1986 and 2018 Site consultants installed/advanced a total of 27 monitoring wells, 16 dual-phase extraction wells, 9 air-sparge wells, 2 groundwater extraction wells, 5 piezometers, 9 soil gas wells, 21 temporary soil gas probes, and 50 soil and groundwater borings on and around the Site property to assess and cleanup the Site release. Remediation at the Site, including dual-phase extraction and air-sparge, removed a total of **2,180 pounds** of hydrocarbons from the subsurface. Current groundwater sampling data show that the remaining impact to groundwater is defined, stable, and expected to attenuate below established water quality objectives within a reasonable time frame. Site conditions met the General and Media-Specific criteria for case closure under the *Low Threat Underground Storage Tank Case Closure Policy* (LTCP), and the case was closed on 29 June 2021.

FRESNO

GJ TE VELDE RANCH, TULARE COUNTY (T10000014547)

Gasoline and diesel fuel were released from aboveground fuel storage tanks at a former dairy, impacting soil and minimally impacting groundwater. Under the regulatory oversight of Central Valley Water Board staff, the responsible party completed necessary soil/groundwater assessment and excavation and off-site disposal of impacted soils as necessary to satisfy closure criteria under the Low Threat Underground Storage Tank Closure Policy. Residual groundwater impacts were deemed unlikely to extend more than 100 feet from the source, so a 250-foot radius Well Protection Zone was established, in accordance with Tulare County well protection criteria, and a case closure letter was issued on 8 March 2021. [WG]

CROP PRODUCTION SERVICES – CUTLER, TULARE COUNTY (SLT5FR344388)

The facility operated as a retail outlet for agricultural chemicals for many years before assessment identified petroleum, fertilizer, DDT, DDE, toxaphene, and chloropropham in soil. In late 1999, approximately 160 tons soil containing spray oil and pesticides were excavated and removed from the site. Subsequent assessment identified high nitrate and ammonia to depths up to 20 feet, remediated by selective excavation and installation of a paved cap with low-permeability geomembrane liner in conjunction with the construction of new site improvements. Groundwater monitoring indicated that conditions have stabilized, and constituents of concern are within the range of historical background concentrations. A case closure letter was issued on 11 May 2021. [WG]

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.

CITY OF DINUBA, 288 S. M ST., DINUBA, TULARE COUNTY

The site is currently within a public park landscaped with trees and grass. Gasoline constituents were detected in a soil sample collected beneath the UST during system removal in 2003. Investigation during 2003 and 2004 determined that contaminants were in close proximity to the former UST and extended to 55 feet below ground surface (bgs). Groundwater contaminant plume extent and stability were initially determined by four monitoring events during 2006 and 2007 and five additional events from 2010 through 2013. Three deeper monitoring wells were installed during 2018 to replace dry wells and were monitored five times during 2018 and 2019. The contaminant plume was determined to have limited extent and did not extend offsite. An unknown hydrocarbon mass was excavated during UST system removal. Approximately 275 pounds (44 gallons) of volatile fuel constituents were removed during a July 2015 soil vapor extraction (SVE) pilot test. The consultant recommended remediation by natural attenuation due to moderate soil permeability and lower cost. The case was closed in accordance with *Low-Threat Closure Policy* criteria on 1 June 2021.

CHEVRON (R.V. JENSEN, INC.), 33105 AUBERRY RD., AUBERRY, FRESNO COUNTY

In September 1999, the responsible party oversaw soil sampling beneath gasoline and diesel UST systems on the property, which was a fuel distribution facility and is now vacant. The investigation determined that gasoline and diesel constituents had been released and had migrated to shallow groundwater. Groundwater monitoring from October 2001 through May 2018 defined the extent and stability of the plume. Twelve domestic wells in the vicinity were periodically sampled from January 2002 until May 2018. An undocumented volume of contaminated soil was removed during January 2001 UST removals. Approximately 50,867 lbs. (8,074 gallons) of gasoline and diesel constituents were estimated to have been excavated and treated onsite during 2003. A high vacuum extraction (HVE) system removed 5,777 lbs. (917 gallons) from soil and an undetermined mass from 12,048 gallons of contaminated groundwater from November

2008 to August 2015. An active free product recovery system removed 51 lbs. (8.1 gallons) of product during two periods of operation from October 2011 and January 2015. The case met relevant *Low-Threat Case Closure Policy* criteria and was closed on 17 May 2021.

R.V. JENSEN, INC., 4021 S. MAPLE AVE., FRESNO, FRESNO COUNTY

The Site is operated as a wholesale and retail petroleum fuel sales facility. A release from UST product piping or connections was discovered during a 1997 site investigation. The local agency filed an Unauthorized Release (Leak) Report during February 1998 and requested additional investigation, which was conducted that year. The gasoline constituents had migrated to groundwater and floating petroleum product was discovered. Twenty-two groundwater monitoring events were conducted from December 1998 to February 2004. An extensive area with approximately 5,100 gallons (31,100 lbs.) of floating product, accumulations up to 2.5 feet thick in monitoring wells and dissolved contaminant plume up to approximately 500 feet in length was discovered. Two product recovery systems operated from 1999 through 2001 and removed at least 290 gallons (1,769 pounds) but documentation of additional removal is not in the case file.

Twenty-eight groundwater monitoring events were conducted from June 2004 through August 2011. During 2004, floating product was observed to a maximum thickness of approximately 5 feet in monitoring wells beneath the northern UST area, and extended about 250 feet west further west in a narrow lobe. A separate lobe extended approximately 400 feet south-southwest. Product thickness and extent decreased during vacuum extraction conducted from 2004 through 2007. Extraction was conducted with a vacuum truck during 107 events from March 2004 through July 2007 and recovered an estimated 2,567 gallons (15,787 lbs.) of product. Measurable product thickness was not observed after the second quarter 2009. Dissolved constituents also decreased and were mostly not detected in the monitoring network during the last monitoring events.

A soil vapor extraction (SVE) and air sparge (AS) system was operated from January 2006 to July 2010 and removed approximately 42,032 lbs. (6,921 gallons) of fuel constituents from the UST release source area.

Well destruction began during 2012, but the final phase was delayed due to a dispute with the adjacent property owner over destruction and site restoration requirements for wells located on that property. The case met relevant *Low-Threat Case Closure Policy* criteria and was closed on 18 May 2021.

SEVILLE MARKET, 15641 AVE. 384, SEVILLE, TULARE COUNTY

The site is an active petroleum fueling facility and convenience store. A release was discovered in 1994 when gasoline constituents were detected in soil samples collected during a UST system removal. Soil and groundwater investigations were conducted from 1996 through 2009 to define the extent of the release. Groundwater monitoring

was conducted from August 1996 through September 2017. Floating petroleum product was observed in three monitoring well casings during early monitoring events. Approximately 1,783 pounds (lbs.) (283 gallons) of volatile fuel constituents in soil and an undetermined mass contained in 51,000 gallons of groundwater were removed by dual-phase extraction (DPE) in 2003. Approximately 16,200 gallons of contaminated groundwater were removed from 2009 to 2015 by over-purging monitoring wells. A soil vapor extraction (SVE) system operated from September 2005 to January 2016 and removed approximately 78,100 lbs. (12,204 gallons) of gasoline constituents. Approximately 16,200 gallons of contaminated groundwater were removed from 2009 to 2015 by over purging monitoring wells.

Water samples were collected from the onsite domestic well from August 1996 until March 2019 and from a nearby school irrigation well from May 1999 until March 2019. Low gasoline constituent concentrations were occasionally detected but have not been reported since February 2014. A nearby residence was connected to the community water system and the site will be connected.

The case was closed in accordance with *Low-Threat Closure Policy* criteria on 23 February 2021.

SUB STATION, 100 N. VALENCIA BLVD. (HWY 245), WOODLAKE, TULARE COUNTY

The site is an active mini mart with motor fuel sales. A release from the UST system was discovered during 1993. An unknown hydrocarbon mass was excavated during UST replacement. Approximately 2,480 pounds (lbs.) (394 gallons) of fuel constituents, including 1.9 lbs. (0.3 gallons) of methyl tertiary butyl ether (MTBE) and 8.9 lbs. (1.41 gallons) of benzene were removed by intermittent operation of a soil vapor extraction and air sparge (SVE and AS) system from August 2008 through June 2011. Groundwater monitoring was conducted from 1995 through 2014. The State Water Board, Underground Storage Tank Cleanup Fund (Cleanup Fund) Manager determined that the *Low-Threat Closure Policy* criteria were satisfied, and case closure was appropriate by a UST Case Closure Review Summary Report signed on 22 April 2015. Order WQ 2016-0055 – UST, signed on 13 April 2016, required well destruction and closure. The wells were destroyed, and investigation derived waste disposal were completed during November 2020. The Cleanup Fund Manager signed a Remedial Action Completion Certification on 12 April 2021.

REDDING

NELLA OIL SS #45, CASE 040150, BUTTE COUNTY

The Site was an active commercial petroleum fueling facility that sustained major damage during the 2018 Camp Fire and is currently not operating. An unauthorized release was discovered during replacement of the dispenser product lines in March 1996. Between 1996 to 2006, soil and groundwater beneath the Site and on adjacent offsite properties were extensively investigated to delineate the lateral and vertical extent of pollution. Sixteen monitoring wells and six remediation wells were installed and regularly monitored starting in 1996. Dual phase extraction was conducted intermittently between June 2008 and February 2012, removing approximately 2,300 pounds of vapor phase hydrocarbon mass, 7 pounds of aqueous phase hydrocarbon mass, and 360,000 gallons of contaminated groundwater. However, water quality objectives for methyl tert-butyl ether (MTBE) and tert-butyl ether (TBA) were not achieved downgradient of the Site. In July 2014, staff approved enhanced bioremediation and groundwater recirculation for treatment of the downgradient plume. Injection events occurred in 2015 and 2016, followed by post-remediation verification monitoring in 2017 and 2018. Additional soil was excavated in 2018 to facilitate installation of larger diameter underground storage tanks. Minor residual impacts were reported during the UST removal activities, and it is estimated that an additional 100 cubic yards of secondary source material was removed offsite. Staff closed the case under the *Low-Threat Closure Policy* in June 2021. [Contact: Melissa Buciak at (530) 224-4854]

MODOC MINI MART #1, CASE 250012, MODOC COUNTY

The Site has operated as a commercial gasoline station and auto repair shop since approximately 1929. In 1968 the repair shop closed, and the current structure was built. Staff opened the case in 2004 after petroleum hydrocarbon contamination was discovered in soil and groundwater during upgrades to the fuel island and UST piping. Site monitoring and investigation occurred between 2004 and 2020, and included soil borings, monitoring wells, and groundwater monitoring. The investigations showed that the greatest impacts occur in shallow soils in one area of the site and that the groundwater plume is less than 250 feet in length and is not expanding. Residual concentrations of contaminants are expected to continue to naturally attenuate and do not pose a threat to surface water or water supply wells. Staff closed the case under the *Low-Threat Closure Policy* in June 2021. [Contact: Kate Sjoberg at (530) 224-3218]

RECORD RANGE TRAINING FACILITY, CASE SLT5R1091, SHASTA COUNTY

The Record Range is a co-operative law enforcement training facility. In 2016, staff opened a Site Cleanup Program case to address nearby resident concerns regarding releases of lead in storm water and into soil within the easement between the facility and adjacent residential neighborhood. Initial activities included working with the facility to implement additional storm water controls and monitoring to evaluate the performance of those controls. Storm water monitoring conducted between 2016 and 2020 shows that the controls are effective at retaining the lead within the facility

boundary. In 2017, staff oversaw investigation of metals concentrations in soil within the easement. Staff conferred with the Department of Toxic Substances Control (DTSC) regarding the results; DTSC concluded that there has not been a release of hazardous substances at levels which pose a risk to human health or the environment. In February 2019, the lower storm water detention basin berm failed and approximately 200 cubic yards of solid material and 86,000 gallons of storm water were released to an unnamed drainage that flows to Mary Lake. Short-term and long-term corrective action was completed at the Record Range and in the downgradient areas impacted by the berm breach. Staff closed the Site Cleanup Program case in May 2021. Storm water monitoring continues at the facility under a monitoring order. [Contact: Melissa Buciak at (530) 224-4854]

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 July 14th and focused on the development of Groundwater Protection Values. More information can be found on the Central Valley Water Board ILRP website.

LOW-THREAT ALTERNATIVE ILRP FRAMEWORK

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

Based on an evaluation of the considerations listed above, Staff is recommending exemption of the Goose Lake Subwatershed (Modoc County) from the Irrigated Lands Regulatory Program. Staff will present a resolution to exempt Goose Lake irrigated pasture for consideration at the August 2021 Board Meeting.

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, the San Joaquin & Delta, Grasslands and Westside San Joaquin River Coalitions started their monitoring. Board staff is continuing to work with members by providing guidance and answering questions.

Board staff are 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. ESJWQC is currently in their third year of participation in the drinking water well monitoring program. Between May 1 and June 30, 58 samples have been submitted to GeoTracker by 32 members/landowners with about 12 percent of samples exceeding the drinking water standard. From May 1 through June 30, staff sent 5 emails to ESJWQC /landowners reminding them of the notification requirement. Our outreach indicates that many members of the Westside San Joaquin River Coalition are using bottled water. Staff continues to follow up with phone calls, emails, letters and notices of violation, as necessary.

In the Tulare Lake Basin Area, Board staff is continuing to work with members through emails, phone calls, and letters to ensure users of impacted wells are properly notified. As of the end of June 2021, there were 1,406 wells with nitrogen exceedances in the Tulare Lake Basin, and staff have received 1,351 signed Drinking Water Notification Templates. From May through June staff have contacted 216 member/landowners reminding them of the notification requirement and will continue with progressive enforcement actions as needed to obtain notifications.

REMINDER LETTERS FOR FAILURE TO SUBMIT NITROGEN MANAGEMENT PLAN SUMMARY REPORTS

Board staff send reminder letters prior to notices of violation to members who have failed to submit their Nitrogen Management Summary Reports by the Board-approved due dates. Coalition areas not shown had no reminder letters mailed during the reporting period. Water Board staff is working with the Sacramento Valley Coalition to help with outreach and obtaining the required reports.

| Coalition Area | Reminder Letters sent May 1- June 30 |
|-----------------------|---|
| Sacramento Valley | 22 |
| Total | 22 |

NOTICES OF VIOLATION FOR FAILURE TO RESPOND TO 13260 DIRECTIVE

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

| Coalition Area | NOVs Mailed May 1- June 30 |
|-------------------|----------------------------|
| East San Joaquin | 61 |
| Sacramento Valley | 41 |
| Total | 102 |

ENFORCEMENT FOLLOW UP

ILRP staff continues to conduct significant compliance and outreach efforts associated with obtaining appropriate enrollment in the program. After issuance of 13260 directive letters, Notices of Violation (NOV) are issued as needed. There is no enforcement occurring beyond NOVs at this time. 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 |
| GQTMW | Groundwater Quality Trend Monitoring Workplan |
| GW | groundwater |
| QAPP | Quality Assurance Project Plan |
| SW | Surface Water |

CALIFORNIA RICE COMMISSION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|----------------|-------------------|---------------|-------------------------------------|
| 4/30/2021 | Rice GQTMW Update | Under review | Resubmitted with changes 07/02/2021 |
| 6/24/2021 | Rice QAPP Update | Under review | |

SACRAMENTO VALLEY WATER QUALITY COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|-------------|----------------------|--------------|
| 5/1/2021 | 2020 GW AMR | Under review | |
| 5/1/2021 | 2020 SW AMR | Under review | |

SAN JOAQUIN RIVER WATERSHED COALITION GROUPS

ILRP ACRONYMS

| Acronyms | Meaning |
|-----------------|---|
| GQTMP | Groundwater Trend Monitoring Program Update |
| SW | Surface Water |
| AMR | Annual Monitoring Report |

EAST SAN JOAQUIN WATER QUALITY COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|--|-----------------------------|---|
| 5/3/2021 | 2020 SW AMR (1 October 2019 through 30 September 2020) | Complete Review sent 6/1 | |
| 6/1/2021 | June 2021 Quarterly Monitoring Data Report | Complete | |
| 6/18/2021 | 2021 GQTMP Update | Complete Review sent 7/1 | 2021 monitoring recommended to proceed. |

SAN JOAQUIN COUNTY AND DELTA WATER QUALITY COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|--|----------------------|--|
| 6/1/2021 | June 2021 Quarterly Monitoring Data Report | Complete | |
| 6/17/21 | 2020 SW AMR (1 October 2019 through 30 September 2020) | Partially complete | The Groundwater and Norman's Nursery section of the AMR is under staff review. |

WESTSIDE SAN JOAQUIN RIVER WATERSHED COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|-------------------|-----------------------------|--|
| 6/16/2021 | 2021 GQTMP Update | Complete Review sent 7/1 | 2021 monitoring recommended to proceed |

GRASSLAND DRAINAGE AREA COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|-------------------|-----------------------------|--|
| 06/16/2021 | 2021 GQTMP Update | Complete Review sent 7/1 | 2021 monitoring recommended to proceed |

TULARE LAKE BASIN COALITION GROUPS

ILRP ACRONYMS

| Acronyms | Meaning |
|-----------------|---------------------------------------|
| AMR | Annual Monitoring Report |
| SQMP | Surface Water Quality Management Plan |
| SWMP | Surface Water Quality Monitoring Plan |

KINGS RIVER WATER QUALITY COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|-------------|---------------------------|--|
| 04/17/2019 | SWMP | Review Sent 06/23/2021 | Additional information requested – awaiting revision |

TULE BASIN WATER QUALITY COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|-------------|---------------------------------------|--------------|
| 04/30/2021 | 2019 AMR | Complete Review sent 06/01/2021 | |

WESTLANDS WATER QUALITY COALITION

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|---|---------------------------------------|--|
| 12/24/2020 | Surface Water Source Identification Study | Board Response Letter sent 6/24/21 | Additional information requested by staff. Awaiting revision. |
| 07/01/2021 | Quarterly Meeting | N/A | Topics included 2021 monitoring and reporting submittals |

OTHER PROJECTS

GROUNDWATER PROTECTION FORMULA AND VALUES

On 19 January 2021, the Executive Officer conditionally approved the joint Groundwater Protection Formula Workplan for Central Valley Coalitions. The Groundwater Protection Formula will provide the foundation for developing Groundwater Protection Values and Groundwater Protection Targets required under ILRP General Orders. Submittal of the Groundwater Protection Values and additional information required as a condition of approval is required by 19 July 2021.

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.

In June, the Data Management Team (DMT) submitted six Sacramento Valley Water Quality Coalition data deliverables to SWAMP covering the period July through

December 2020. Tule Basin Water Quality Coalition- 4 datasets are pending DMT review and 5 datasets are currently under DMT review.

The backlog for Cawelo Water District is up to date with Chemistry and Field data. Submittal of Toxicity data is pending additional information from the Cawelo Water District.

The backlog for Kings River Watershed Coalition Authority has 6 data sets under DMT review.

The backlog for Kaweah Basin Water Quality Association is complete for the Chemistry and Field data sets. Submittal of Toxicity data is pending additional information from Kaweah.

The backlog for Kern River Watershed Coalition Authority is up to date for Chemistry and Field data sets. Six toxicity datasets are being processed by the DMT.

GRASSLAND BYPASS PROJECT

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|--------------------------|----------------------|----------------------------|
| 12/06/2020 | Drainage Management Plan | Approved 06/29/2021 | |
| 04/29/2021 | Annual Monitoring Report | Staff review issued | Revision due by 08/15/2021 |

NORMAN'S NURSERY

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|---------------------------------|-------------------------|-------------------|
| 5/3/2021 | Management Plan Progress Report | Staff comments provided | Awaiting revision |

RICE PESTICIDES PROGRAM

Deliverables and activities:

| Submittal Date | Item | Review Status | Notes |
|-----------------------|-------------|----------------------|--------------|
| Not applicable | | | No updates |

NON-POINT SOURCE (NPS)

CLEAR LAKE NUTRIENT CONTROL PROGRAM UPDATE

Board staff are 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 have sent enforcement orders to each responsible party to obtain this information. There have been delays in this process due to restrictions caused by COVID-19. To date, all responsible parties have submitted deliverables, which are being reviewed to determine compliance with specified load allocations. The information submitted by the responsible parties will be summarized in an updated Technical Memorandum.

The Blue-Ribbon Committee for the Rehabilitation of Clear Lake met remotely on 23 June 2021. Jennifer LaBay provided an update on Clear Lake Nutrient TMDL efforts, including the transition of lead staff for the TMDL. Staff also announced that the Board will be 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. 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/>

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.shtml).
www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.shtml

OUTREACH

On June 18th, Sue McConnell participated in CDFA's Grower Training Ad Hoc Committee kick-off meeting. The Committee is working to guide the redevelopment of the Grower Training associated with grower certification of the Irrigated Lands Irrigation and Nitrogen Management Plans.

On 25 May, Alex MacDonald was one of a group of five trainers for the Interstate Technical Regulatory Council providing training on the *DNAPL Site Characterization* document. The on-line training was provided free of charge to approximately 130 individuals around the country.

STAFF RECOGNITION

EMPLOYEE RECOGNITION AWARD

EMPLOYEE: KATIE CARPENTER

UNIT: Non-15 Permitting

LOCATION: Fresno

TITLE: Engineering Geologist

MONTH: July 2021

SUPERVISOR: Alex Mushegan, Senior WRCE

Katie Carpenter is a tremendous asset to the Non-15 Program. 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 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.

Some of the projects Katie has worked on recently include:

- Drafting WDRs for a pistachio processing facility
- Issued a Notice of Applicability and MRP for the Recycled Water General Order and the Low Threat Waiver
- Issued multiple rescission Orders
- Completed a review of a Report of Waste Discharge of a new pistachio facility
- Reviewed a CEQA document for modification to a winery
- Processed a public records act request
- Started reviewing two Nitrate Initial Assessments for the new Nitrate Control Program
- Handled multiple inquiries related to CV-SALTS and Local Agencies Management Programs (LAMPs)
- Working with a potential discharger on a new discharge of slurry waste to a lined pond.

We are very fortunate to have Katie working at the Central Valley Water Board, and she is well deserving of this recognition.

SUPERIOR ACCOMPLISHMENT AWARDS

EMPLOYEE: BRANDON SALAZAR

UNIT: Dredge/Fill Program

LOCATION: Fresno Office

TITLE: Water Resource Control Engineer

SUPERVISOR: Matthew Scroggins, Sr. Water Resource Control Engineer

Brandon is a Water Resource Control Engineer in the Fresno office of the Central Valley Water Board and works in the dredge/fill program. Brandon started at the Board in an extraordinary year where multiple, significant events impacted the program. He approached these following events with a positive attitude and an inquisitive mind:

- Within his first two months he successfully transitioned his on-the-job training to a teleworking environment due to the COVID pandemic.
- The dredge/fill program began implementing new, landmark statewide procedures in June 2020.
- In the 2019-2020 fiscal year, the Fresno office received a record number of dredge/fill applications.
- Brandon managed to produce water quality certifications in a timely manner all the while learning the program.
- New federal regulations went into effective last September that radically changed the process and shortened the time frame to issue water quality certifications.
- A staff retirement placed an increased workload on Brandon who has been the sole dredge/fill staff for the Fresno office since December.

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

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

EMPLOYEE: MARISSA BOSENKO

UNIT: Administration

LOCATION: Fresno Office

TITLE: Office Technician

SUPERVISOR: Clint Snyder, Assistant Executive Officer

Marissa Bosenko joined the Central Valley Water Board's Redding office as an Office Technician in March 2020, just before the Board's emergency telework requirements went into effect. Despite the challenges of getting up to speed on the office's administrative procedures during this period, Marissa quickly dug in and got to work. She completed all required training, gained a firm command of internal processes including those associated with document production, ADA compliance, facility management, and fleet maintenance. She quickly established rapport with State Water Board, Rancho Cordova, and Fresno administrative professionals and took on several special assignments.

In March 2021, just one year after Marissa was hired, her only full-time associate went out on maternity leave. Since then Marissa has balanced the demands of her own

responsibilities along with those of her associate including procurement, IT support, and assisting with hiring, on-boarding and training of new seasonal clerks. Recently, Marissa worked with the Board's Administrative Officer and State Water Board personnel to develop stepwise procedures and workflow to assist the Central Valley Water Board's management team in meeting its ADA compliance obligations, and subsequently helped to roll out the plan to the Board's Executive Management Group and Leadership Team.

In a little more than a year, Marissa has proven to be a valuable member of the Board's Redding office and its region-wide administrative program. She is conscientious, dependable, and well respected among her peers and managers alike. Marissa always has a great attitude and her program knowledge is valued. She is most deserving of recognition for her work and her contributions to the Central Valley Water Board.

EMPLOYEE: BRITTANY ELLIOTT

UNIT: Administration

LOCATION: Rancho Cordova Office

TITLE: Associate Governmental Program Analyst

SUPERVISOR: Brett Braidman, Operations Supervisor

Brittany Elliott has worked for the Regional Waterboard for nearly two years. She serves as an Associate Governmental Program Analyst in the Operations Unit in the Rancho Cordova office. In the short time Brittany has been with the Waterboard, Brittany's contributions have been invaluable, as she consistently produces high-quality and accurate work products.

Brittany is very approachable and extremely knowledgeable in HR practices and protocols. Brittany's friendly demeanor, grace under pressure, and her excellent work ethic to assist staff in each office does not go unnoticed. In just two years, Brittany has recommended valuable changes in Region 5 HR practices, developed valuable position HR reports, been a valuable resource in navigating the challenging eRPA process, and offers great help in updating vacancy reports, organizational charts, the eRPA Tracker and more --- all the while maintaining an excellent attitude, friendly demeanor, and reinforcing the customer service goal of the overall Admin team.

Brittany has made excellent suggestions to Admin management on how to improve HR practices, followed through on her workload, and went above and beyond by producing a high-quality work product that was both superb and timely. One of the hallmarks of excellence is the unsolicited praise Admin supervisors have received from various staff who have been helped by Brittany. When you are in close contact with many staff, it is important that you put staff at ease as you deal with their personal and confidential information. Brittany accomplishes this with extreme professionalism, making staff feel comfortable as they pass along personal information. Brittany filled big shoes when she was hired behind the retired Steve Thompson and is creating her own Region 5 legacy. In summary, Brittany's tremendous work ethic, ability, drive and professionalism is an asset to the Administrative Support Program and Region 5 overall.

EMPLOYEE: SEAN WALSH**UNIT:** Confined Animals Facilities Unit**LOCATION:** Rancho Cordova Office**TITLE:** Environmental Scientist**SUPERVISOR:** Daniel Gamon, Sr. Engineering Geologist

This Superior Accomplishment Award (SAA) is awarded to Sean Walsh, whose incredible dedication in so many areas help the Central Valley Water Board maintain excellence in the Confined Animals Facilities Unit. Sean sets the bar for excellence and fills a key role for the Unit - he is an indispensable resource. Sean consistently continues to provide outstanding technical and regulatory support as part of an enforcement team's productive efforts to bring several dairies into compliance with the Dairy General Order and Individual Waste Discharge Requirements. His attention to detail and vast knowledge of how each dairy operates were instrumental in the team's recent success in adopting several uncontested Cease and Desist Orders (CDOs). He is also diligent in following up on key deliverables and actions required by dischargers under CDOs to ensure compliance.

In addition to his work on formal enforcement orders, Sean continues to inspect dairies and perform his other duties in a very busy unit. His team approach is greatly appreciated. Sean's mentoring and sharing of knowledge with other staff increases the unit's overall productivity.

During facility inspections and investigations, Sean often engages with dairy owners and operators who are at times hesitant to communicate with regulators. He has developed a reputation for fairness and consistency. His professional approach is greatly appreciated. We are very fortunate to have Sean working in the Confined Animal Facilities Unit and he is well deserving of this award.

ENFORCEMENT

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

ORDERS AND COMPLAINTS ISSUED OR ADOPTED

Enforcement Table 1, included below, provides a summary of all of the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDOs); 13267 Investigative Orders; Expedited Payment Letters (EPLs); and Administrative Civil

Liability (ACL) Orders and Complaints) that have been issued by the Central Valley Regional Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

**Enforcement Table 1 – Central Valley Enforcement Orders
1 May 2021 through 30 June 2021**

| Action Date | Agency | County | Notes |
|-------------|-------------------------|--------|---|
| 5/10/2021 | Vacaville City DPW | Solano | Expedited Payment Letter (EPL) R5-2021-0507 issued in the amount of \$3,000 which represents the sum of mandatory minimum penalty (MMPs) for a serious effluent violation which occurred between 1 November 2015 and 31 December 2020. |
| 5/10/2021 | Grass Valley City | Nevada | EPL R5-2021-0506 issued in the amount of \$3,000 which represents the sum of MMPs for a serious effluent violation which occurred between 1 July 2020 and 31 December 2020. |
| 5/10/2021 | Yuba City | Sutter | EPL R5-2021-0507 issued in the amount of \$15,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2020 and 31 December 2020. |
| 5/25/2021 | Setton Properties, Inc. | Tulare | Stipulation of Entry of Administrative Civil Liability Order (Stipulated Order) R5-2021-0516 in amount of \$221,440 issued for failure to comply with Cease and Desist Order (CDO) R5-2020-0038. The Order required the Discharger to immediately cease and desist its generation of objectionable odors as required by the WDRs Order 92-191 and submit technical reports describing how it will achieve compliance with the WDRs. The Discharger agrees to pay \$133,204.73 to the Waste Discharge Permit Fund and the remaining \$88,235.27 will be suspended pending completion of Supplemental Environmental Project (SEP). The SEP is to purchase and pay for the installation of air scrubbers for all HVAC units located at Carl Smith Middle School and Terra Bella Elementary School. The Discharger will also purchase and provide the schools with one set of replacement light bulbs for the air scrubber units. |

| | | | |
|-----------|-----------------------------------|--------------|---|
| 6/18/2021 | Town of Discovery Bay CSD | Contra Costa | EPL R5-2021-0515 issued in the amount of \$6,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 January 2018 and 28 February 2021. |
| 6/18/2021 | Ca Dept of Parks & Rec Sacramento | Nevada | EPL R5-2021-0514 issued in the amount of \$3,000 which represents the sum of MMPs for a serious effluent violation which occurred between 1 October 2017 and 28 February 2021. |
| 6/18/2021 | City of Williams | Colusa | Stipulated Order R5-2021-0511 in amount of \$3,000 to address an MMP effluent limitation violation. The Discharger is considered eligible for a Compliance Project (CP) because the Facility is POTW serving a small community with a financial hardship. The Penalty will be permanently suspended pending completion of the compliance project. The CP consists of wastewater treatment plant modifications and optimization tasks to improve effluent water quality and minimize violations associated with treated effluent discharge. The project will optimize the Facility's aeration basin and add diffuser tubes so similar violations do not occur in the future. |
| 6/18/2021 | City of Woodland | Yolo | EPL R5-2021-0513 issued in the amount of \$15,000 which represents the sum of MMPs for serious effluent violations which occurred between 1 July 2015 and 31 December 2020. |

ENFORCEMENT UPDATE

Enforcement Table 2 below summarizes the enforcement actions issued in all Regions for the period between 1 May 2021 through 30 June 2021. From a statewide perspective, Region 5 is responsible for 53% of the enforcement actions tracked in CIWQS during this period including 44% of all NNCs, 25% of all EPLs, and 29% of all NOVs.

**Enforcement Table 2 – Statewide Enforcement Actions in CIWQS
1 May 2021 through 30 June 2021**

| Region | NNC | ACL | CAO | CDO | EPL | NOV | SEL | VER | Total | |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 1 | 0 | 0 | 2 | 0 | 0 | 0 | 9 | 0 | 0 | 11 |
| 2 | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 14 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 11 | 1 | 0 | 13 |
| 4 | 61 | 13 | 0 | 0 | 0 | 14 | 41 | 0 | 10 | 139 |
| 5F | 141 | 1 | 0 | 0 | 0 | 0 | 9 | 2 | 1 | 154 |
| 5R | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 13 |
| 5S | 126 | 0 | 0 | 0 | 0 | 7 | 28 | 1 | 3 | 165 |

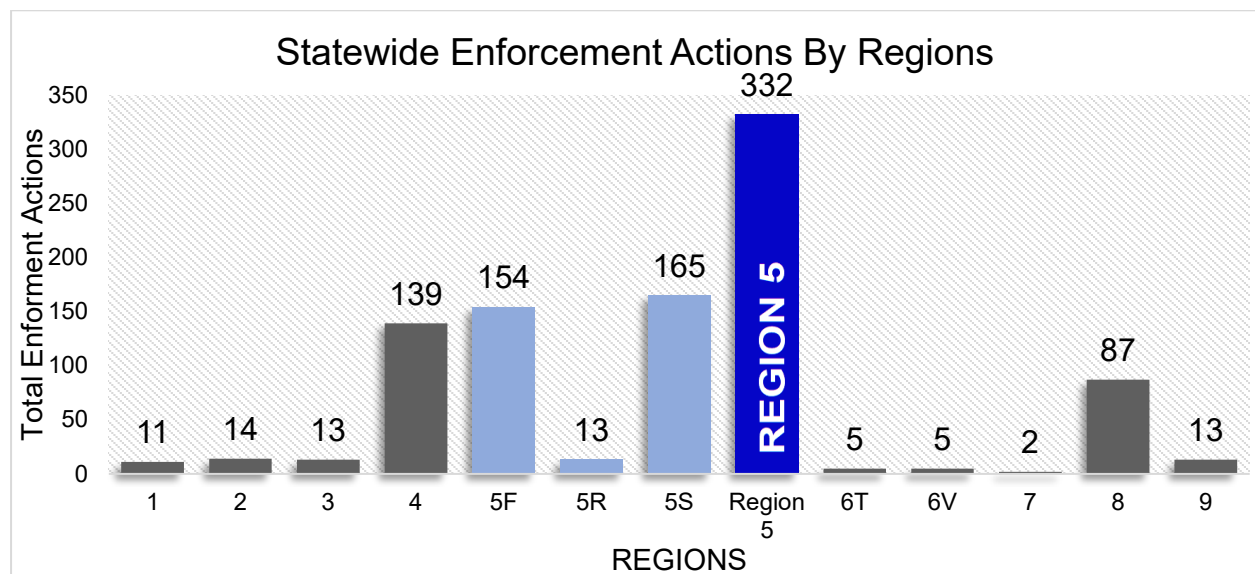
| | | | | | | | | | |
|----------|-----|----|---|---|----|-----|----|----|-----|
| Region 5 | 267 | 1 | 0 | 0 | 7 | 50 | 3 | 4 | 332 |
| 6T | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 0 | 5 |
| 6V | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 5 |
| 7 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 8 | 18 | 0 | 0 | 0 | 0 | 2 | 9 | 58 | 87 |
| 9 | 0 | 2 | 0 | 1 | 0 | 7 | 3 | 0 | 13 |
| Total | 613 | 32 | 3 | 1 | 28 | 172 | 25 | 79 | 621 |

ENFORCEMENT ACTIONS:

ENFORCEMENT ACTIONS AND ABBREVIATIONS:

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

STATEWIDE ENFORCEMENT ACTIONS BY REGION



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

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

**Enforcement Table 3 - Region 5 Enforcement Actions in GeoTracker
1 MAY 2021 THROUGH 30 JUNE 2021**

| Region | 13267 Requirement | CAO | NOV | Staff Letter | VER | Warning Letter | Total |
|--------------|-------------------|----------|----------|--------------|----------|----------------|------------|
| 5F | 0 | 0 | 6 | 46 | 0 | 0 | 52 |
| 5R | 2 | 1 | 0 | 25 | 0 | 1 | 29 |
| 5S | 0 | 0 | 3 | 76 | 3 | 0 | 82 |
| Total | 2 | 1 | 9 | 147 | 3 | 1 | 163 |

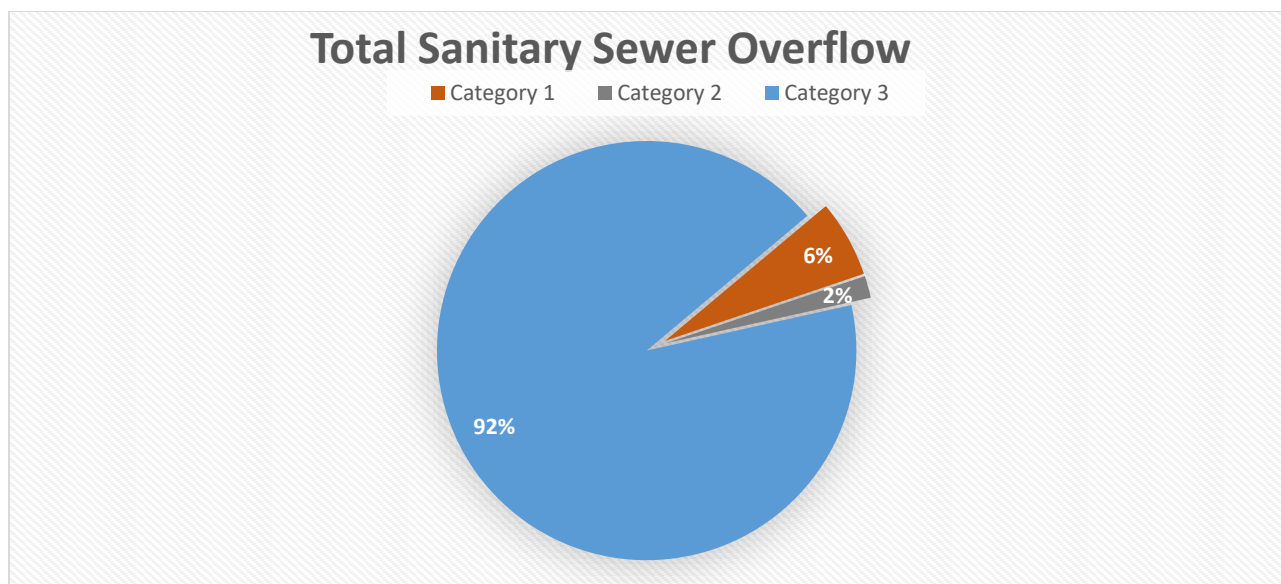
Finally, the Board's Irrigated Lands Regulatory Program (ILRP) does not upload enforcement actions into either the CIWQS or GeoTracker databases. For the period between 1 May 2021 through 30 June 2021, a summary of those enforcement actions is included in Table 4, below.

Enforcement Table 4 – REGION 5 ILRP ENFORCEMENT ACTIONS (1 May 2021 through 30 June 2021)

| Region | NOVs for Failure to Respond to 13260 Directive | Reminder Letter for Failure to Submit Annual Reports (Farm Evaluations and Nitrogen Management Plan Summary Report) | Total |
|--------------|--|---|------------|
| 5F | 0 | 0 | 0 |
| 5R | 0 | 0 | 0 |
| 5S | 102 | 22 | 124 |
| Total | 102 | 22 | 124 |

SANITARY SEWER OVERFLOWS (SSOS) AND COMPLAINTS

Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS General Order) 2006-003-DWQ requires enrollees to submit an SSO technical report for any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. For the period between 1 May 2021 through 30 June 2021, there were no reported SSO incidents in which 50,000 gallons or greater spilled reached surface water.



**Enforcement Figure 2: Central Valley Sanitary Sewer Overflow Summary
(1 May 2021 through 30 June 2021)**

Figure 3: Central Valley Sanitary Sewer Overflow Summary

For the reporting period between 1 May 2021 through 30 June 2021, there were 118 total SSO spills: 7 Category 1, 2 Category 2, and 109 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 in the State Water Board's CIWQS database pursuant to the requirements of SSS General Order.

COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS COMPLAINTS

Central Valley Water Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 May 2021 through 30 June 2021, Central Valley Water Board staff received a total of **29 complaints** via phone calls, emails, and from the [CalEPA Complaint database](https://calepacomplaints.secure.force.com/complaints/) (<https://calepacomplaints.secure.force.com/complaints/>). To date, 27 (93%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining two (2) complaints remain ongoing.

ADMINISTRATIVE CIVIL LIABILITY

The Water Board has the authority to impose administrative civil liabilities for a variety of violations under Water Code section 13323. All the monetary liability of an ACL penalty goes to the State Water Pollution Cleanup and Abatement Account (CAA); however, the

monetary penalty may be directed toward a compliance or environmental project. These projects are as follows:

COMPLIANCE PROJECT (CP)

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

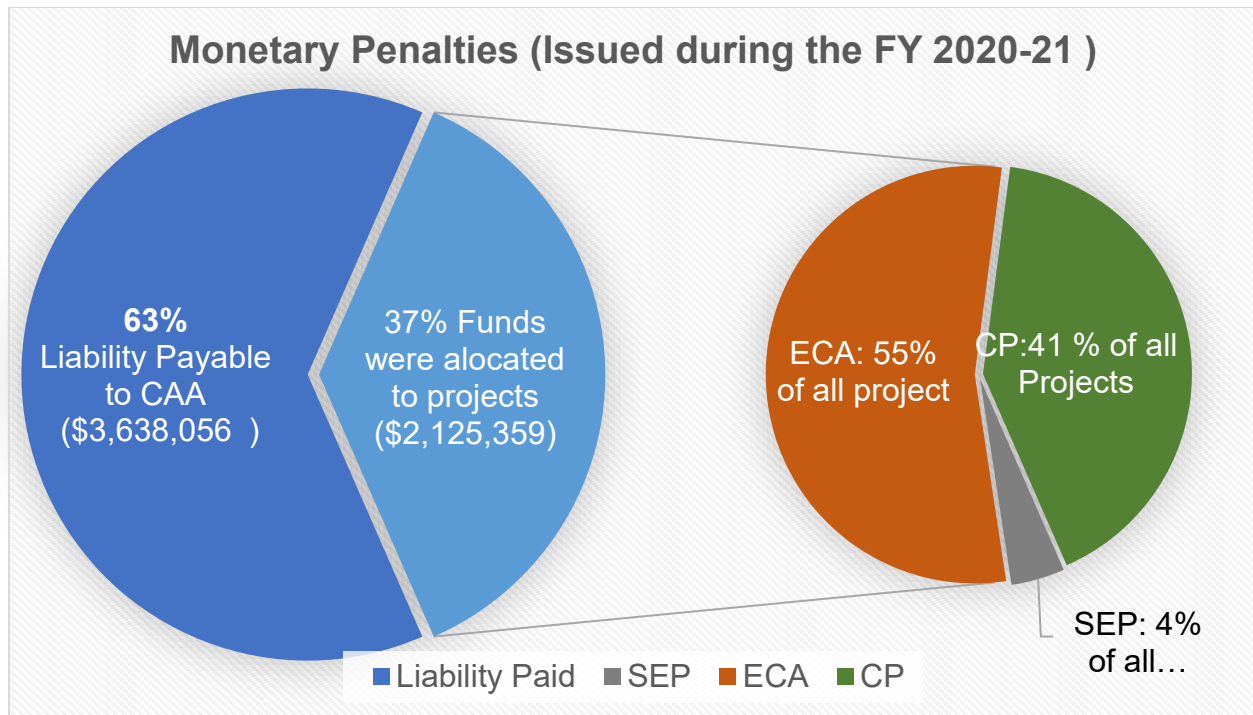
SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

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

ENHANCED COMPLIANCE ACTION (ECA)

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

For the fiscal year period between 1 July 2020 through 30 June 2021, the chart below summarizes total monetary penalties that were issued by the Central Valley Water Board. A total of \$5,763,415 in monetary penalties (Liability payable to CAA, CP and SEP) were issued during this period, of which \$3,638,056 (63%) of the penalties were paid to the State Water Pollution Cleanup and Abatement Account and \$2,125,359 (37%) of the penalties were allocated to projects (CP, SEP, or ECA). The funds that were allocated to these projects \$879,000 (41% of all funds allocated to projects) was allocated for CPs, \$1,158,124 (55% of all funds allocated to projects) was allocated for ECAs and \$88,235 (4% of all funds allocated to projects) was allocated for SEP (see Figure 3 below).



**Enforcement Figure 4: Region 5 – Total Monetary Penalties issued
1 July 2020 through 30 July 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)

(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 2020-2021 fiscal year.

**Enforcement Tables 5a-5e - Region 5 Inspection Performance Measurement
Summary from 1 July 2020 through 30 June 2021**

Table 5a – NPDES Wastewater

| Programs | Original Target | Facilities Inspected | % Complete = Actuals/ Original Target | Revised Target | Total # of Inspections Performed |
|----------------------------|------------------------|-----------------------------|--|-----------------------|---|
| Major Facilities Inspected | 21 | 15 | 86% | NA | 18* |
| Minor Facilities Inspected | 5 | 7 | 160% | NA | 8 |

* The NPDES inspection goals were not met this fiscal year (FY) as a result of Covid-19 limitations and restrictions. In addition, the Redding office had a vacant NPDES senior position for a portion of the 2020/2021 FY.

Table 5b – NPDES Storm Water

| Programs | Original Target | Facilities Inspected | % Complete = Actuals/ Original Target | Revised Target | Total # of Inspections Performed |
|-------------------------------------|------------------------|-----------------------------|--|-----------------------|---|
| Stormwater Construction Inspections | 385 | 341 | 103% | NA | 396 |
| Stormwater Industrial Inspections | 195 | 222 | 119% | NA | 232 |
| Stormwater Municipal Inspections | 0 | 75 | NA | NA | 75 |

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 | 134 | 101% | NA | 153 |

Table 5d – Land Disposal

| Programs | Original Target | Facilities Inspected | % Complete = Actuals/ Original Target | Revised Target | Total # of Inspections Performed |
|-----------------------|------------------------|-----------------------------|--|-----------------------|---|
| Landfill Inspections | 113 | 68 | 73% | NA | 83 |
| All Other Inspections | 23 | 25 | 165% | NA | 38 |

Table 5e – Other Programs

| Programs | Original Target | Facilities Inspected | % Complete = Actuals/ Original Target | Revised Target | Total # of Inspections Performed |
|--------------------------------------|------------------------|-----------------------------|--|-----------------------|---|
| Forest Activities Inspections | 267 | 246 | 117% | NA | 312 |
| Confined Animal Facility Inspections | 275 | 237 | 106% | NA | 291 |

**ENFORCEMENT TABLE 6 – REGION 5 CLEANUP ACTION SUMMARY
(1 JULY 2020 THROUGH 30 JUNE 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 | 5 | 5 | 100% | NA | NA |
| New SCP Sites into Active Remediation | 52 | 20 | 40% | NA | NA |
| Cleanup Program Sites Closed | 41 | 49 | 120% | NA | NA |
| New UST Sites into Active Remediation | 23 | 10 | 43% | NA | NA |
| Underground Storage Tank Sites Closed | 66 | 46 | 70% | NA | NA |

DELTA ACTIVITIES

DELTA MERCURY CONTROL PROGRAM

The Delta Mercury Control Program and associated Methylmercury TMDL (DMCP) requires entities responsible for discharging methylmercury (MeHg) in the Delta to conduct source control studies and evaluate and develop MeHg management methods. The DMCP requires the studies to be reviewed by an independent scientific peer review panel (Review Panel). Seven control study reports investigating MeHg management in municipal wastewater and urban stormwater runoff discharges have been completed and evaluated by the Review Panel. The [Review Panel's report](http://www.deltacouncil.ca.gov/pdf/science-program/2019-08-22-delta-methylmercury-review-part-1.pdf) assessing the seven control study reports on municipal wastewater and urban stormwater runoff discharges can be viewed here:

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

A second Review Panel reviewed the remaining open water modeling and tidal wetlands reports and submitted a Final Report on those studies to the Delta Science Program on 9 July 2021. Delta Science Program staff are creating an ADA-compliant version and will distribute to Board staff and post on their website, referenced above, once available. Board staff will use information from these studies and recommendations from both Panels to consider revisions to the DMCP.

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

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.

More information on the DMCP, including the CEQA scoping presentation slides and recording, can be found on the [DMCP website](https://www.waterboards.ca.gov/dmcp/) here:

[\(https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project/s/delta_hg/\)](https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_project/s/delta_hg/)

DELTA REGIONAL MONITORING PROGRAM (DELTA RMP)

Board staff attended Delta RMP meetings, including Technical Advisory Committee (TAC) and Steering Committee (SC) meetings as well as other smaller meetings to provide support for program implementation. The program is transitioning the Implementing Entity from the Aquatic Science Center to the newly formed 501(c)3 Delta RMP entity, comprised of RMP permittees. Modifications to the governance structure, program structure, and implementing entity will require approval by the Central Valley Water Board.

On 12 January 2021, the Executive Officer provided a letter to the SC clarifying expectations for the timing of governance decisions and implementation of the new RMP program by January 2022 and requested a program governance plan in the form of a Governance Report by 1 April 2021. Board staff reviewed the Governance Report and the Executive Officer requested a revised Report to be submitted by 19 July 2021 to provide more details on the new implementing entity, program structure, and to address Board staff questions. Board staff have also met with OCC to discuss how to update the language in the Board permits and orders to reflect the new RMP program structure.

Board staff from several different programs (IRLP, NPDES, NPS) have met internally to identify monitoring priorities, data gaps, short and long-term agency information needs that can be provided by the Delta RMP.

The Delta RMP SC met on 24 June 2021 to discuss the FY2021/2022 monitoring workplan and technical reports. The SC finalized four Delta RMP reports including the Chlorophyll-a Intercalibration Report, the Mercury Interpretive Report, and two Pesticide and Toxicity field and laboratory reports. In June, the Data management Subcommittee

and the Contaminants of Emerging Concern (CEC) Subcommittee held a joint meeting to plan for Year 2 CEC monitoring and discuss data management needs.

Board staff met with California Department of Fish and Wildlife, Interagency Ecological Program, and Moss Landing Marine Laboratories to coordinate a response to impacts on planning Mercury monitoring due to new sampling method restrictions in critical Delta Smelt habitat zones.

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 part of a project team that is monitoring cyanotoxins in water and sediment organisms in the Delta. The 2-year project, which is funded by a Proposition 1 Grant, began sampling in August 2020. Board staff are participating in project tracking, reporting, and data management.
- Board staff continue to develop mass load estimates of nitrogen and phosphorous entering and exiting the Delta. This work will update and extend previously published load estimates and will cover the period 2008-2019.
- Board staff collected samples for a project tracking occurrence and spread of strains of the cyanobacteria *Microcystis* in the Delta. This project is testing the hypothesis that *Microcystis* cells that overwinter in sediment at a few locations are driving summer blooms at these locations and elsewhere in the Delta. The project is funded by the State Water Board Freshwater HAB Program and supplemental environmental project funds administered by the Delta RMP.

SAN JOAQUIN RIVER DISSOLVED OXYGEN TMDL IMPLEMENTATION

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the Stockton Deepwater Ship Channel/San Joaquin River (SDWSC/SJR) Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective. From 24 March through 12 July 2021, there were no excursions below the dissolved oxygen water quality objective in the channel and operation of the aeration facility was not necessary.

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

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

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

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

OLD AND MIDDLE RIVERS DISSOLVED OXYGEN IMPAIRMENT

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

TMDL BASIN PLANNING

PESTICIDE BASIN PLANNING/TMDLS

CENTRAL VALLEY PYRETHROIDS BASIN PLAN AMENDMENT AND TMDL

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

Board staff continue to work with MS4, wastewater and agricultural dischargers under the program to ensure success 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 Municipal Separate Storm Sewer System (MS4) permittees in the Sacramento and San Joaquin Rivers Basins specifying requirements for baseline monitoring under the Control Program for Pyrethroid Pesticide Discharges. Under these Orders, Phase I MS4 permittees were required to submit draft Baseline Monitoring Plans by 1 December 2020. All the Phase I MS4 permittees have complied with the Orders and one (1) Phase 1 MS4 Baseline Monitoring Plan has been approved by the Executive Officer and revised drafts of the remaining two (2) Phase 1 MS4 Baseline Monitoring Plans are being reviewed by Board staff.

Phase II MS4 permittees under the program had the option to either 1) submit Baseline Monitoring Plans by 28 February 2020, or 2) acknowledge the existing data are assumed to be representative of their discharge, forego baseline monitoring, and prepare a Pyrethroid Management Plan due to the Board by 19 August 2021. The

Phase II MS4 permittees were also required to submit a statement of intent by 31 August 2020 describing which option they selected to comply with the Order. All of the Phase II MS4 permittees have responded to the Orders with a statement of intent, most intend to submit Pyrethroid Management Plans.

Ten (10) Phase II MS4 permittees have selected the baseline monitoring option. Two (2) of the Phase II MS4 permittees were granted forty-five (45) day extensions of the due date and submitted draft Baseline Monitoring Plans by 14 April 2021. Revised drafts of the Phase II MS4 Baseline Monitoring Plans are being reviewed by Board staff.

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

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

TRIBAL BENEFICIAL USES DESIGNATION

On 2 May 2017, beneficial use designations relating to California Native American tribes were established by the State Water Board through Resolution 2017-0027, which adopted Part 2 of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California—Tribal and Subsistence Fishing Beneficial Uses and Mercury Provisions. The new beneficial use definitions are Tribal Tradition and Culture (CUL), and Tribal Subsistence Fishing (T-SUB) (“Tribal Beneficial Uses”, or TBUs). In addition, the State Water Board also defined a beneficial use for Subsistence Fishing (SUB) unrelated to California Native American Tribes (though it can be used by Tribal members, as applicable). The SUB and T-SUB beneficial uses relate to the risks to human health from the consumption of fish or shellfish. The definition for CUL also includes consumption of aquatic resources to support cultural, spiritual, ceremonial, and traditional rights. On 6 December 2018, the Central Valley Water Board adopted Resolution R5-2018-0079 approving the 2018 Triennial Review with TBUs as a priority project.

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

Board staff began drafting a Basin Plan Amendment to add the TBU definitions to the Basin Plans in 2021. Board staff developed a process for TBU designations through several meetings in spring 2021 with Tribes and stakeholders. The proposed process was presented to the Board at the June 2021 Board meeting.

Board staff applied for and were awarded a Civic Spark Fellow to support the TBU project. The Civic Spark program is a branch of AmeriCorps, with similar organization: the Fellow is a recent college graduate in a relevant area of study and will serve for a year at the Central Valley Water Board in exchange for a stipend and education award

at the end of their service. This is an excellent opportunity to increase staff resource capacity and to train a young professional in public service.

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

PIT RIVER EVALUATION

The 2018 Triennial Review identified Reassessment of Beneficial Uses and Water Quality Objectives in Specific Reaches of the Pit River as a priority project. To support the project, Board staff met with the Modoc Resource Conservation District (MRCD) and Pit River Tribe beginning in the Fall of 2019 through early 2020. Through these meetings, stakeholders and Board staff determined the priorities for the program were to gather the available temperature-related water quality data, to identify if data gaps exist and to determine if additional data is needed through a field effort. The MRCD and Pit River Tribe members agreed to continue discussions on this topic by holding future meetings. Board staff continue to facilitate meetings and discussions, as needed, or requested.

2021 TRIENNIAL REVIEW

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, and the preparation of a prioritized workplan for both Basin Plans. The workplan 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 areas where the Board may pursue additional resources to address areas where existing resources are not sufficient. Board staff intend to bring the 2021 Triennial Review Workplan to the Central Valley Water Board for adoption in December 2021.

On 24 March 2021, Board staff issued the [2021 Triennial Review Solicitation Notice](#) with comments due by 10 May 2021. Board staff are currently developing the 2021 Triennial Review Workplan based on comments received and a response to all comments.

BIOSTIMULATORY BIOINTEGRITY POLICY DEVELOPMENT

The State Water Board is developing a statewide plan for control of bio stimulatory substances as an amendment to the Water Quality Control Plan for Inland Surface Water, Enclosed Bays and Estuaries of California (ISWEBE Plan). The Amendment is expected to include numeric or narrative water quality objective(s) for bio stimulatory substances and control options for point and non-point sources. The Amendment development is focused first on wadable streams, followed by lakes and reservoirs and

then estuaries. Following adoption of the Toxicity Policy, State Water Board staff resumed work on a draft bio stimulatory substances amendment for wadable streams to be released in 2021. Board staff are working with the Southern California Coastal Water Research Project to evaluate in detail the data and bio stimulatory factor relationships in human-impacted streams and lakes and reservoirs in the Central Valley.

REGIONAL TEMPERATURE CRITERIA DEVELOPMENT

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

SALINITY AND CV SALTS

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

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

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

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

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

On 16 October 2019, the State Water Board adopted a resolution approving the SNCP amendments, along with a directive for the Central Valley Water Board to adopt targeted revisions to the amendments within a year of their approval by the Office of Administrative Law (OAL), which was on 15 January 2020. The SNCP was finalized when the Notice of Decision was filed with the Secretary of Natural Resources Agency

on 17 January 2020, except for the portions subject to the Clean Water Act, which were approved by the USEPA on 2 November 2020. Basin Plan amendments revising the Salt and Nitrate Control Program were adopted by the Central Valley Water Board on 10 December 2020 in [Resolution R5-2020-0057](#). The resolution can be found here:

https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/resolutions/r5-2020-0057_res.pdf

The State Water Board approved these revisions to the Salt and Nitrate Control Program at their meeting on 1 June 2021 in Resolution 2021-0019.

The Notice to Comply letters for the Nitrate Control Program were sent out to Priority 1 permittees on 29 May 2020. Since that time, six Management Zones have formed to cover the six high priority sub-basins (Modesto, Turlock, Chowchilla, Kings, Kaweah and Tule), and each of them submitted Preliminary Management Zone Proposals (PMZPs) and Early Action Plans (EAPs) on 8 March 2021 to comply with the Nitrate Control Program. [PMZPs and EAPs](#) can be found here:

https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/nitrate_mz/

As required by the Nitrate Control Program, EAP implementation to provide safe drinking water to impacted communities began on 7 May 2021. As of 8 July 2021, Priority 1 Management Zones have collectively reported the following metrics:

Table 1. Priority 1 Management Zone Program EAP Implementation Summary (as of 8 July 2021)

| EAP Implementation Metric | Total |
|---|--------------|
| Inquiries/Interest/calls | 728 |
| Well Testing Applications Submitted | 432 |
| Wells Tested/Scheduled | 167 |
| Wells above the Nitrate Standard | 44 |
| Percent of Wells above the Nitrate Standard | 26% |
| Households Receiving Bottled Water | 49 |
| Water Fill Station Locations | 6 |
| Fill Station Household equivalents | 328 |
| Total Households/equivalents | 377 |

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

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

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

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

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

More information on the [Municipal and Domestic Supply \(MUN\) Beneficial Use Project](https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use) 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 are held quarterly. The last MAA meeting to discuss ongoing activities supporting the San Joaquin River Real Time Management Program activities (RTMP) was held on 21 June 2021. USBR submitted a draft FY21/22 Work Plan on 21 May 2021. Public comments are due on 23 July 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 indicator bacteria on California's 303(d) List. To keep the public and local agency partners informed about current conditions, SWAMP has been collecting weekly E. coli samples in the Lower American River and Steelhead Creek and posting results to an online map. This effort is in conjunction with a coordinated stakeholder study to collect DNA source identification samples and characterize the contributing sources of E. coli to the river. Sampling for Phase 1 of the study was completed in September 2020 and included ten sites on the American River and two urban runoff locations. An initial review of the data indicates that birds are the most consistent source of contamination in this reach. The DNA marker for birds was detected in 80% of the samples, while the marker for dogs was detected in 27% of samples and for humans in 9% of samples. Monitoring for Phase 2 of the study began in July 2021 and focuses on the river reach from Sutter's Landing Regional Park downstream to the confluence with the Sacramento River.

SUMMER 2021 RECREATIONAL BENEFICIAL USE ASSESSMENTS

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

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

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

CYANOBACTERIA BLOOMS UPDATE

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

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

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

Updates and conclusive findings on the results listed in Table 1. below can be found on the [California Harmful Algal Blooms Portal](#) at: (<https://mywaterquality.ca.gov/habs/>).

WINTER 2021 – CENTRAL VALLEY BLOOMS

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

cyanobacteria blooms for the period from 20 May 2021 to 13 July 2021 is provided in Table 1.

Cyanobacteria Table 1. Bloom Summary: 20 May 2021 through 13 July 2021

| Category | Count |
|---|----------------|
| Number of Suspected Blooms Investigated since previous EO Report | 40 |
| Number of Confirmed Blooms ¹ since previous EO Report | 35 |
| Number of Continuing Blooms ¹ from previous EO Report | 3 |
| Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report | 23 |
| Number of Human Illnesses Reported since previous EO Report (under investigation) | 3 |
| Number of Animal Impacts Reported since previous EO Report (under investigation) | 6 [§] |

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

*Human illnesses were reported in San Luis Reservoir (Merced County), Whiskey Slough (San Joaquin County) and Discovery Bay (Contra Costa County)

§Animal impacts were a reported dog illness in Kelsey Creek (Lake County), dead fish and wildlife at River Birch Park (Sacramento County), dead fish in Whiskey Slough (San Joaquin County), ill wildlife at McKinley Park (Sacramento County), dead fish and ill wildlife in Discovery Bay (Contra Costa County), and dead fish in an irrigation canal (West of Davis, Yolo County).

FOREST ACTIVITIES PROGRAM

GRANT

Post Camp Fire Dixie Road Sediment Reduction Project (\$775,198)

The Dixie Road project is for the purpose of implementing forest management, erosion control, and storm proofing practices on Dixie Road and Camp Creek Road to protect the spawning beds and fisheries habitat of endangered and threatened species associated with the North Fork Feather River, Camp Creek, and their tributaries in Butte County within the perimeter of the 2018 Camp Fire. Since the last update, The Draft 1600 permit has been submitted to California Department of Fish and Wildlife. Cultural Resources Surveys have been completed along with the Botany surveys. The CEQA NOE has been filed and continued communications with Plumas National Forest NEPA team about the project and needs for CEQA should provide all other permits and specialist surveys upon completion. Grant funding recently increased by \$275,198

bringing the total allotted funds for this project to \$775,198. Additional funds were approved by the State Water Board as it was consistent with the purposes of Water Code section 13442 and the cleanup of waste or abatement of the effects of a waste. Currently, construction has commenced on the project and is expected to remain on schedule throughout the 2021 season. (Closing 12/31/2021)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

GENERAL ORDERS

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders staff seek to enroll the permittees under the general orders to streamline the permitting process. NPDES Tables 1 through 3, below, summarize the Notices of Applicability that have been issued to date for Fiscal Year 2020/2021 (1 July 2020 through 30 June 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

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

| Facility | General Order Permit Number |
|--|------------------------------------|
| American Valley WWTP Construction Dewatering | R5-2016-0076-070 |
| Beale AFB Plume CG044-013 Groundwater Treatment System | R5-2016-0076-068 |
| Westlake Community Construction Dewatering Project Amendment | R5-2016-0076-057-01 |

NPDES PERMIT Table 2 - Municipal General Orders

| Facility | County | General Order Permit Number |
|---|---------------|------------------------------------|
| Stallion Springs Community Services District, Wastewater Treatment Facility | Kern | R5-2017-0085-013 |
| United Auburn Indian Community, Thunder Valley Casino WWTP | Placer | R5-2017-0085-014 |
| Mariposa PUD WWTP | Mariposa | R5-2017-0085-017 |
| Nevada CSD No 1 Cascade Shores WWTP | Nevada | R5-2017-0085-015 |
| City of Live Oak WWTP | Sutter | R5-2017-0085-018 |
| City of Galt WWTP | Sacramento | R5-2017-0085-016 |

NPDES PERMIT Table 3 - CAAP General Order

| Facility | County | General Order Permit Number |
|---|---------------|------------------------------------|
| Calaveras Trout Farm, Inc. and Merced Irrigation District, Trout Rearing Facility | Merced | R5-2019-0079-001 |
| J.F. Enterprises Worm Farm | Stanislaus | R5-2019-0079-002 |

DAIRIES/CONFINED ANIMAL FACILITIES

CONFINED ANIMAL FACILITY INSPECTIONS

The Confined Animal Facilities Program's FY 2020/2021 performance target for facility inspections was 275. Staff completed approximately 291 inspections and therefore met the performance target. The FY 2021/2022 performance target for inspections is again 275.

EMERGENCY ANIMAL MORTALITY PREPAREDNESS

The California Department of Food and Agriculture (CDFA), in collaboration with staff from the Central Valley Water Board and other CalEPA agencies, is developing expanded guidance for the disposal of mortalities at confined animal facilities during a declared emergency caused by rendering plants not being able to process animals. This could be due to an equipment failure at a rendering plant, an excessive number of mortalities that exceed the capacity of rendering plants (e.g., during an extended heat wave), or an extended power outage.

Such an emergency has not occurred this year, but it is important that confined animal operations are prepared. The CDFA guidance will include options for transporting carcasses to a permitted landfill, temporary on-site storage for later transport to a landfill, and on-site composting. The guidance will describe practices to prevent nuisance conditions or impacts to the environment.

One of the options being explored is to compost mortalities followed by land application to cropland. On-site disposal of mortalities is prohibited by applicable orders except in the case of a declared emergency. Water Board issues that would need to be addressed include: compliance with the State Water Board's General Order for Disposal of Disaster-Related Waste (including notifying the Central Valley Water Board), documentation that the composted material meets all Cal Recycle standards for time and temperature monitoring to assure adequate pathogen reduction, a determination by CDFA that the mortalities do not pose a risk from Bovine Spongiform Encephalitis ("mad cow disease"), and that the mass of nitrogen added by the composed material is accounted for in the facility's nutrient management plan and reported in the facility's next annual report.

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 evaluate closure plans for produced wastewater ponds. Major items that have been completed by Staff include the following:

- Issued a Notice of Violation to LINN Operating, Inc., and Ballard Oil Company; two Notices of Violation to Caleco, LLC; and three Notices of Violation to E&B Natural Resources Management Corporation for various sites.
- Issued a determination that no further action is needed for the closure of a pond in the Midway-Sunset Oil Field.
- Conditionally approved a work plan by Aera Energy, LLC to assess two ponds in the Coalinga Oil Field.

- Issued Notice of Applicability for coverage under Oil Field General Order Three (Order No. R5-2017-0036) to KB Oil and Gas, Inc., for six ponds in the Cymric Oil Field.
- Issued Notice of Applicability for coverage under Oil Field General Order Three (Order No. R5-2017-0036) to KB Oil and Gas, Inc., for its pond in the Cymric Oil Field.

During May and June 2021, Staff completed six inspections of oil field facilities. Staff finalized inspection reports for two of the facilities and sent them to the Operators for record keeping. Staff are preparing reports for the other. Due to the COVID-19 pandemic and directives from CalHR, Staff was only conducting emergency inspections for spills or equipment failures. Routine inspections will resume when new COVID-19 guidance indicates it is safe to do so.

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.

SPILL RESPONSE

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

A spill of crude oil occurred on the KCL G-South facility operated by California Resources Corporation (CRC), in the Wheeler Ridge Oil Field on 5 May. According to OES, a leaking pipeline caused the discharge of an unknown amount of crude oil to land near the California Aqueduct. On 6 May, staff of the Department of Water Resources told Staff that the discharged oil affected a ditch extending towards the Aqueduct. Staff inspected the spill site on 6 May and observed the areas affected by the spill. During the inspection, Staff observed the underground pipeline that caused the spill and the in-progress cleanup operations. CRC staff showed Staff the end of the affected section of the ditch, which was upstream of the Aqueduct. Staff observed no visual impact to the Aqueduct. CRC conducted cleanup of the spill site by removing the oil and excavating oil-affected materials. An update to the OES report listed the amount of the discharged oil at approximately 32 bbls (1,344 gals). On 8 June, Staff and staff of the California Department of Fish and Wildlife (CDFW), and staff of the California Geologic Energy Management (CalGEM) conducted a post-cleanup inspection of the spill site. Staff observed that the areas affected by the spill appeared to be visually clean. CRC staff said that the group of pipelines at the source of discharge were taken out-of-service and will be flushed to prevent future discharges. CDFW signed-off on the site cleanup.

A spill of crude oil occurred on a facility operated by Berry Petroleum Company (BRY), in the McKittrick Oil Field on 6 May. According to OES, approximately 6 bbls (252 gals) of crude oil leaked from a tank into the secondary containment of the tank. According to

OES, BRY removed the oil from the affected containment area, and a contractor has completed cleanup.

A spill of produced wastewater occurred on the Ethel D Lease operated by BRY, in the Midway Sunset Oil Field on 18 May. According to OES, a human error during maintenance work caused the discharge of approximately 40 bbls (1,680 gals) of produced wastewater to land. On 18 May, BRY staff told Staff that the discharge was stopped, and cleanup of the affected areas was complete. BRY staff added that no dry stream beds or natural drainage courses have been affected by the spill.

A spill of crude oil occurred near well # 56E-34R on a facility operated by CRC, in the Elk Hills Oil Field on 7 June. According to OES, a flow line leak caused the discharge of approximately 7.5 bbl (315 gals) of oil and an unknown amount of produced wastewater into an ephemeral stream bed. On 7 June, CRC staff told Staff that the discharge has been stopped and cleanup of the affected areas was in-progress. Staff inspected the spill site and observed the affected stream bed on 8 June. On 17 June, staff of CDFW conducted a post-cleanup inspection of the spill site and signed-off on the site cleanup.

A spill of filtered oil field produced wastewater occurred on a facility operated by Aera Energy, LLC (Aera), in the South Belridge Oil Field on 8 June. According to OES, a leak in an injection line caused the discharge of approximately 1 bbl (42 gals) of produced wastewater to land. On 8 June, Aera staff told Staff that no dry stream beds were affected by the spill.

A spill of softened oil field produced wastewater occurred on Section 1 facility operated by Aera in the South Belridge Oil Field on 17 June. According to OES, a wastewater distribution line failed causing the discharge of approximately 7.4 bbl (311 gals) of produced wastewater to land. On 17 June, Aera staff told Staff that no dry stream beds have been affected by the spill.

A spill of crude oil and oil field produced wastewater occurred on the Star Fee Lease operated by Sentinel Peak Resources California (SPRC) in the Cymric Oil Field on 18 June. According to OES, a valve failure caused the discharge of approximately 50 bbls (2,100 gals) of crude oil and 1,800 bbls (75,600 gals) of produced wastewater from a tank into a secondary containment. On 22 June, SPRC staff told Staff that most of the discharged oil was contained within a containment area, but a portion of the discharge affected a flat area. SPRC staff added that staff of CDFW and CalGEM inspected the spill site and will follow up on this incident. SPRC staff also said that cleanup of the affected areas was in progress. On 29 June, SPRC staff told Staff that cleanup of the areas affected by the spill was mostly complete.

A spill of crude oil and oil field produced wastewater occurred on the South Unit facility operated by California Resources Corporation (CRC), in the Mount Poso Oil Field on 22 June. According to OES, an underground flow line leak caused the discharge of approximately 50 bbls (2,100 gals) of oil and 300 bbls (12,600 gals) of produced wastewater to land. On 23 June, CRC staff told Staff that some of the discharged fluids affected an ephemeral stream bed. CRC staff added that cleanup of the affected areas

was in-progress. CRC staff also said that staff of CDFW inspected the spill site and will conduct a post-cleanup inspection once cleanup is complete. CRC staff said that they will notify Staff once cleanup of the affected areas is complete. A 29 June update of the OES report reflected an updated discharge amount of approximately 70 bbls (2,940 gals) of oil and 500 (21,000 gals) of produced wastewater.

A spill of crude oil and oil field produced wastewater occurred on the Kendon Lease operated by Aera, in the Midway Sunset Oil Field on 26 June. According to OES, a check valve failure caused the discharge of approximately 4.92 bbls (207 gals) of oil and an unknown amount of produced wastewater to land. On 28 June, Aera staff told Staff that some of the discharged fluids affected a dry ditch. Aera staff added that cleanup of the affected areas was in-progress and staff of CDFW inspected the spill site. Aera staff will notify Staff once cleanup is complete.

OIL FIELD FOOD SAFETY EXPERT PANEL

During May and June 2021, Central Valley Water Board staff (Staff) oversaw the collection of produced water samples by Wood Group PLC, a third-party sampling team collecting samples on behalf of the United States Environmental Protection Agency (USEPA), Cawelo Water District, and Chevron USA, Inc. The results from the analysis of the produced water samples will be evaluated by the USEPA. USEPA staff are developing new, novel test methods to evaluate the quality of produced water.

Staff also continued to put the finishing touches on the Food Safety Project White Paper (White Paper). The White Paper summarizes the Food Safety Project, which was undertaken to determine whether irrigating crops with oil field produced water posed a threat to public health. The White Paper was presented to the Central Valley Water Board during its February 2021 Meeting, after a public release in January 2021. Staff received comments on the White Paper from the Central Valley Water Board's Science Advisor and members of the public and are addressing the comments in the latest edition of the White Paper.

UIC PROGRAM

During the period from 14 May 2021 to 7 July 2021, staff (Staff) of the Underground Injection Control Unit (UIC) performed the following activities:

AQUIFER EXEMPTIONS

Midway-Sunset Tulare Aquifer Exemption – The California Geologic Energy Management Division (CalGEM) provided State Water Board staff and Staff a revised aquifer exemption application (application). Staff requested additional information regarding the application provided. CalGEM provided the additional information.

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

information provided in response to the additional questions and concerns. Staff and State Water Board staff requested that CalGEM and the operators provide additional information.

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

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

Mt. Poso Dorsey Area Aquifer Exemption – CalGEM provided State Water Board staff and Staff a revised application and responses to initial questions. Staff is reviewing the revised application and additional information provided. In addition, Staff and State Water Board staff met with CalGEM and the United States Environmental Protection Agency to discuss if the aquifer exemption could be an addendum to the previous aquifer exemption or an expansion of the aquifer exemption.

UIC PROJECT REVIEWS

Staff received information in response to five 13267 Orders requiring Operators to perform hydrogeologic investigations in the South Belridge and Lost Hills Oil Fields. Staff is reviewing the information provided. In addition, Staff has requested additional information be provided regarding two hydrogeological characterization reports for the Lost Hills Oil Field.

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

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 a letter and memorandum requesting additional information regarding the first project. Staff are currently reviewing the information provided for the second project.

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

Staff sent three letters and memorandums requesting additional information for UIC projects in the Kern River and Lost Hills Oil Fields.

Staff received responses to initial reviews performed for proposed water disposal, steam flood, and cyclic steam projects in the Brentwood and Edison Oil Fields. Staff are reviewing the information provided.

Staff received project information relating to requests to conduct steam flood, cyclic steam, and waterflood projects in the Kern Front, McKittrick, North Belridge, and South Belridge Oil Fields. Staff are reviewing the information provided.

SENATE BILL 4 (SB-4) PROGRAM

Since the last Executive Officer's Report Staff have not reviewed any WST Applications.

Staff are currently reviewing groundwater monitoring reports for: Area LLC's South Belridge Oil Field, Aera LLC's Lost Hills Oil Field, California Resources Corporation's Kettleman Middle Dome Oil Field, California Resources Corporation's Buena Vista Nose area, California Resources Corporation's Rose Oil Field, Chevron USA Inc.'s Lost Hills Oil Field, and Seneca Resources' Lost Hills Oil Field. Staff are also reviewing submittals associated with the presence of groundwater mounds in Chevron USA Inc.'s Lost Hills Oil Field, and in the northern portion of Aera LLC's South Belridge Oil Field subject to SB4 groundwater monitoring.

Staff in the SB-4 unit responded to public record requests for eight properties within oil fields in Kern County.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

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

[\(https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_land/regulatory_information/stakeholder_advisory_workgroup/index.html\)](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_land/regulatory_information/stakeholder_advisory_workgroup/index.html).

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.

Marissa Bosenko started her position as AGPA for the Cannabis Unit in Redding on 1 July 2021. She will be assisting the unit in compiling and analyzing historical and ongoing statistics and data for the program which will culminate in an updated dashboard. CIPS 3.0 will be available for staff starting in September/October 2021. The CIPS platform will assist staff with risk determination, site identification, and permit status.

Program Manager held the FY21/22 Kickoff meeting on 13 July 2021 and was happy to report that the Central Valley Region had the highest number of new enrollments in the Cannabis General Order in the entire state with 444 new enrollments. Staff should be commended for their efforts.

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 | CE | Tier 1L | Tier 1M | Tier 1H | Tier 2L | Tier 2M | Tier 2H | Total |
| Calaveras | 4 | 29 | 5 | 0 | 43 | 3 | 0 | 84 |
| Colusa | 2 | 1 | 0 | 0 | 2 | 0 | 0 | 5 |
| Contra Costa | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| El Dorado | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 6 |
| Kern | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lake | 55 | 142 | 3 | 0 | 271 | 2 | 6 | 479 |
| Fresno | 4 | 0 | 0 | 0 | 6 | 0 | 0 | 10 |
| Merced | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Nevada | 20 | 283 | 4 | 1 | 18 | 0 | 0 | 325 |
| Sacramento | 146 | 0 | 0 | 0 | 0 | 0 | 0 | 146 |
| Sierra | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Solano | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Shasta | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Siskiyou | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Stanislaus | 19 | 7 | 0 | 0 | 3 | 0 | 0 | 29 |
| Tulare | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Yolo | 2 | 18 | 0 | 0 | 43 | 0 | 0 | 63 |
| Yuba | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | | | | | | |
| Total | 277 | 486 | 12 | 1 | 388 | 5 | 6 | 1174 |

OUTREACH

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

COMPLIANCE AND ENFORCEMENT - ENROLLMENT ENFORCEMENT

The pre-season coordination meetings with County and CDFW law enforcement (LE) are paying dividends. LE is writing warrants for inspections at the sites that have been prioritized by our staff, Div. of Water Rights, CDFW, and County Code and Law Enforcement.

In June 2021, Staff issued 13260 Orders to unenrolled cultivators in the Squirrel Creek watershed in Nevada County, just west of Grass Valley. Staff coordinated the effort with the Division of Water Rights who have identified six of the 13 sites as having potential violations. Staff are currently processing the responses to the enrollment enforcement batch.

COMPLIANCE

Staff attended multiple compliance inspections led by CDFW at enrolled sites in Lake County that were in serious violation of the General Order and Fish and Game Code. Staff have received feedback from Nevada County LE that cultivators are becoming aware of the Regional Board's limited resources which is resulting in expanding disturbed areas, disregard for setbacks, and other violations. Staff will coordinate closely with LE to identify the worst offenders and perform compliance inspections as necessary.

ENFORCEMENT

Staff are performing follow up enforcement activities on the remaining cases that were brought forward after the backlog reduction task. Staff conducted three inspections in Nevada County on 9 July 2021.

GOVERNOR'S OFFICE CANNABIS ENFORCEMENT CONVENINGS

N/A

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>.](http://www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml)

State Water Board and the Regions are in the process of developing the 2022 Grant Solicitation Guidelines, which will be released in Fall 2021. Once released, a copy of the Grant Program Solicitation Notice and the Grant Program Guidelines can be found on the [State Water Board's NPS Control Program webpage.](http://www.waterboards.ca.gov/water_issues/programs/nps/319grants.html)

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)

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

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

In 2012 the greater Battle Creek watershed was impacted by the Ponderosa wildfire. The resulting increases in post fire stormwater runoff has led to continual discharges of sediment, metals, nutrients, and other pollutants to the adjacent streams, threatening aquatic wildlife (threatened and endangered species) and public health (drinking water). A 3.5-mile section of Ponderosa Way in Eastern Tehama County, north of State Route 36E (Project Area), was identified and prioritized as an area which needed sediment and erosion control treatments to minimize the continued discharges of sediment to South Fork Battle Creek. In 2019 a grant application proposal was prepared by the Tehama County Resource Conservation District (TCRCD) and was submitted to the State Water Resource Control Board (SWRCB). The proposal outlined implementation of the identified erosion and sediment control measures for the Project Area. In April 2020, the SWRCB approved the use of CWA 319 grant funds for the proposed project. In August 2020, the TCRCD submitted an updated Statement of Work and Budget to the SWRCB for review and consideration. The grant agreement was executed (signed and approved by SWRCB Division of Financial Assistance) on 30 June 2021, allowing this project to proceed as planned. (Closing 2/28/2023)

TIMBER REGULATION AND FOREST RESTORATION FUND ON-GOING GRANTS:

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

The Western Shasta Resource Conservation District has completed a 23-mile road assessment inventory in the North Fork Battle Creek watershed. The grantee has compiled and prioritized all road-related sediment inputs described in the road assessment inventory into a final Action Plan report. A technical advisory committee (TAC) and subsequent field workshop were conducted in July 2020, resulting in selection of demonstration sites. The grantee and Shasta County Public Works have participated in on-site training during implementation and completion of two demonstration sites along Rock Creek Road and Forward Mills Road. The grantee has obtained public agency permits from the California Department of Fish and Wildlife and Central Valley Regional Water Quality Control Board and submitted an encroachment permit to Shasta County for the implementation of the demonstration sites. The grantee is currently working on finalizing bid documents for the implementation of the remaining demonstration sites. (Closing 10/31/2021)

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

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

AMERICAN RIVER HEADWATERS RESTORATION (\$757,000)

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

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

The purpose of this project is to address the discharge of sediment from Upper Bidwell park roads and trails into Big Chico Creek Watershed through the implementation of a Sediment Source Assessment and Treatment Plan. The grant agreement was executed in early July 2020. The grantee is currently working with contractors, CA Department of Fish and Wildlife (CDFW), and the Regional Water Board on the preparation of environmental permit applications which was slightly delayed while addressing a public concern. The grantee has completed final design specifications as well as started road and trail inventories for the second phase of the project. A draft Mitigated Negative Declaration (MND) was prepared and is currently under review by city of Chico staff and engineering staff are currently reviewing the draft bid documents. On 17 June 2021, a wildfire took place in the park and became known as the 'Park Fire', burning a total of 402 acres with minimal impacts to the western portion of the project. No known project delays are expected or changes to the scope are anticipated at this time. (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 by the end of July 2021. (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 May 24th, Sue McConnell met with representatives from Clean Water Action, Leadership Counsel for Justice and Accountability and Environmental Law Foundation along with agricultural coalition representatives to discuss development of the Groundwater Protection Values.

*On 26 and 27 May Elizabeth Betancourt and Adam Laputz participated in a field tour of cultural sites important to the Pit River Tribe. These sites were located in the Modoc and northeastern Shasta County area, and conversation was specific to Tribal Beneficial Uses.

*On 27 May, 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 11 June, Janis Cooke participated in a quarterly meeting of the San Francisco Bay Nutrient Management Steering Committee. The committee heard updates about current monitoring, assessment, and modeling activities and approved a Program Plan for fiscal year 2022.

On 17 June 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.

Participants discussed a variety of restoration and in stream flow management activities. The U.S. Fish and Wildlife Service provided a brief review of their fisheries monitoring efforts of spring run Chinook Salmon. The U.S. Bureau of Reclamation (USBR) discussed flow management activities for the 2021 Water Year which included an update on pulse flows from Whiskeytown Dam and impacts to Clear Creek and possible changes due to drought conditions. Restoration project updates from the USBR included ongoing gravel augmentation projects, Phase 3B revegetation efforts, and discussion of decreased CVPIA funding for restoration projects due to lower than normal revenue from power generation. The USBR also discussed hydraulic modeling efforts and the need for more bathymetry data to complete the model. Lastly the California Department of Fish and Wildlife provided an overview of recent drone surveys they conducted in efforts to collect pre pulse monitoring data. The goal of this survey was to capture water surface elevation, velocity, and water depth changes through the Clear Creek gorge.

On 18 June, Katie Gilman and Dan Warner participated in U.S. Fish and Wildlife Service's field tour of the Tasmam Koyom and Round Valley Meadow Restoration Projects located in Plumas County. The focus of the tour was for attendees to view the current restoration techniques (beaver dam analogs and post-assisted log structures) being implemented to restore incised channels and drying meadow systems and to discuss project concepts for future meadow restoration projects.

*On June 23rd, Adam Laputz, Jennifer LaBay, Meredith Howard, Taran Sahota, Daniel McClure, and Micaela Bush participated in the Clear Lake Blue Ribbon Committee to discuss an update regarding the Nutrient TMDL.

*On 24 June, 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 29 June, Meredith Howard, Karen Atkins, Matt Krause, and Janis Cooke participated in a field tour and sampling training of HABs in the Stockton area. The field tour included State Board Member Firestone, State Board staff, volunteers with Restore the Delta, and local students.

*On 29 June Robert L'Heureux and Adam Laputz met with a representative of the Yocha Dehe Wintun Nation (Yocha Dehe) to discuss formalizing the working relationship between the Tribe and the Central Valley Water Board. Central Valley Water Board staff and Yocha Dehe staff agreed to continue discussions with additional future meetings and to discuss how the Tribe may influence the proposed TBU Basin Plan Amendments.

On 1 July 2021, George Low an Engineering Geologist and Jerred Ferguson an Environmental Scientist with the Central Valley Water Board's Redding office participated in a Local Emergency Planning Committee (LEPC), Region III virtual meeting. LEPC Region III is comprised of Butte, Colusa, Glenn, Lassen, Modoc, Plumas, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, and Yuba counties. The purpose of the LEPC meetings is to provide a forum for emergency management agencies, responders, industry and the public to work together to evaluate, understand, communicate, plan and provide training for emergency response incidents resulting from chemical hazards within the Region. The Central Valley Water Board's Redding staff serves as the Environmental Primary member of the committee.

This month's meeting discussed membership recruitment for open member positions on the committee. The meeting also included discussions of upcoming regional trainings, and a presentation from Nicholas Callahan, Weapons of Mass Destruction Coordinator, FBI-Sacramento: An introduction on role and responsibilities for the North State. Participating agencies also provided agency reports on incidents/activities that have occurred that they were involved with that are of interest to LEPC members.

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 in July 2018.

The Delta Regional Monitoring Program is undergoing modifications to the governance structure, program structure, and implementing entity, which require approval by the Central Valley Water Board. Central Valley Water Board staff is continuing to coordinate with the CEC Subcommittee through these modifications. Funding and logistics plans for Year 2 of the Work Plan are being developed by the CEC Subcommittee for review and will take into account the process needed to sample at sites covered by the Department of Water Resources in-kind contributions, which will not be available for Year 2 and 3 of the Work Plan. Central Valley Water Board staff are also working with the Data Management Subcommittee to make Year 1 data available in the California Environmental Data Exchange Network.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES – 1 MAY 2021 – 30 JUNE 2021

PROMOTIONS:

Galvin Kauffman - Sr. EG
Misty Pontes – ES

NEW HIRES:

Carla Landrum – EG
Karen Atkins – ES
Will Chen – WRCE

RETIREMENT:

None

SEPARATIONS:

Jeremy Pagan – S WRCE
Walter Plachta – EG

LEAVE OF ABSENCE:

None

SUMMARY OF POSITIONS:

Total Authorized Positions: 270.2

Total Vacant Positions: 27.5

Sacramento

Authorized Positions: 148

Vacancies: 13.7

Fresno

Authorized Positions: 73

Vacancies: 6

Redding

Authorized Positions: 48.7

Vacancies: 3

Temporary Positions

New Hires:

Stephen Carlson – SA

Cristian Lopez-Flores – SA

Elijah Wierlyklein – SA

Shafiq Pohmale – SA

Tyler Thomas – SA

Jonathan Byers – SA

Cierra Collins – SC

Separations:

Jonilyn Kelly - SC

TRAINING UPDATES - 1 MAY 2021 – 30 JUNE 2021

| Class Title | Number of Attendees |
|--|----------------------------|
| | 6 |
| 16-Hour HAZWOPER | 2 |
| 2021 CVCWA Annual Conference | 9 |
| 24-Hour HAZWOPER | 1 |
| 4-Hour Field Safety Training | 3 |
| All-Terrain Vehicle (ATV/UTV) Training | 1 |
| AP206: CalEPA Basic Inspector Academy | 3 |

| Class Title | Number of Attendees |
|---|----------------------------|
| CAL FIRE Basic Forest Practice | 1 |
| California Leadership Academy - Supervisor Development Program (80 Hour Program) | 1 |
| California Water Boards 6th Annual Water Data Science Symposium | 2 |
| Conducting Effective Meetings | 6 |
| CVCWA Annual Conference | 1 |
| Deep Water Leak Location Survey - Highly Sensitive and Very Effective | 3 |
| Editing | 11 |
| EEO: Workplace Rights and Responsibilities | 1 |
| Effective Decision Making | 2 |
| Ergonomics: The Homemade Home Office | 1 |
| Executive Leaders 2021 Series: Engaging the Unengaged | 1 |
| Executive Leaders 2021 Series: Leading Organizational Change | 3 |
| Field Safety Training | 1 |
| Hazard Communication | 2 |
| Hydraulic and Hydrologic Modeling | 1 |
| Injury and Illness Prevention Program | 1 |
| Introduction to GIS | 3 |
| Introduction to Watershed Assessments | 1 |
| ITRC Sustainable Resilient Remediation (SRR) | 1 |
| ITRC Vapor Intrusion Mitigation Webinar | 4 |
| Mastering Grammar | 1 |
| Mine Inspection Workshop | 1 |
| New Miner Training (MSHA) | 18 |
| NPDES Permit Writers Training Toxicity Provisions | 3 |
| Rapid Geomorphic Assessment of Stream Channels Above and Below Culverts and Bridges | 5 |
| Sedimentation and Erosion 101: Sediment Sources, Characteristics, and Movement | 19 |
| Sexual Harassment Prevention and Other EEO Issues | 3 |
| Stakeholder Engagement | 4 |
| Statistics Refresher | 2 |
| Transition During Difficult Circumstances | 2 |
| Verbal Judo | 1 |
| Virtual Air Force Western Regional Environmental Restoration Summit | 2 |
| Water Boards 101: Training Services | 2 |
| Water Leadership Program: An Insider's Look | 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 |
| TBD | TBD | Helicopter aerial surveillance services (Fresno office – SB 901 funds) | TBD | 6/30/2023 | \$30,000 |

WATER QUALITY STUDY/PLANNING

| Contract Number | Contractor Name | Description | Start Date | End Date | Amount |
|-----------------|--|--|------------|------------|-----------|
| 18-053-150 | Caltest Analytical Laboratory | Lab services (Rancho Cordova office) | 08/15/2018 | 06/30/2021 | \$240,000 |
| 18-054-150 | Basic Laboratory, Inc. | Lab services (Redding office) | 08/15/2018 | 06/30/2021 | \$165,000 |
| 18-055-150 | Moore Twining Assoc. Inc. | Lab services (Fresno office) | 08/15/2018 | 06/30/2021 | \$195,000 |
| 19-003-150 | Southern California Coastal Water Research Project Authority | The project will identify the environmental drivers contributing to cyanobacterial blooms and toxin production in Clear Lake, Lake County. | 9/27/2019 | 03/31/2022 | \$510,000 |

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

FUTURE BOARD ACTIVITIES

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

OCTOBER 2021 BOARD MEETING

NPDES PERMITTING

- NPDES PERMITS
- CDCR Deuel Vocational Institution NPDES Permit Amendment
- City of Live Oak WWTP Rescission
- City of Grass Valley WWTP Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- South San Joaquin Irrigation District DeGroot WTP (Revised)
- Rivermaid Trading Company (Revised)
- City of Dinuba WWTF (Revised)
- Vita-Pakt Citrus Products (Revised)

DECEMBER 2021 BOARD MEETING

NPDES PERMITTING

- Bear Valley Water District WWTF Renewal
- Limited Threat General Order Renewal
- City of Lathrop WWTP (New Permit)
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- City of Modesto WWTF (Revised)
- Pilot Travel Center (Revised)
- California Concentrates Company (Revised)

FEBRUARY 2022 BOARD MEETING

NPDES PERMITTING

- American Valley WWTP Renewal
- City of Chico WPCP Renewal
- Sliger Mine Renewal
- North Valley Regional Recycled Water Program Renewal

- City of Chico WPCP Renewal
- City of Colusa Renewal
- Sterling Caviar Renewal
- City of Willows WWTP Rescission

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Bronco Winery (Revised)

PENDING ACTIONS BUT NOT YET SCHEDULED FOR A BOARD MEETING

NPDES PERMITTING

- City of Auburn WWTP Renewal
- Mountain House CSD WWTP Amendment
- Bear Valley CSD WWTF Renewal
- City of Nevada City WWTP Renewal
- City of Modesto WQCF Renewal
- City of Corning WWTP Renewal
- River Highlands CSD Hammonton Gold Village WWTP Renewal
- Sierra Pacific Industries Shasta Lake Division Renewal
- Tehama CSD #1 Mineral WWTP Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- General Order for Large WWTF (New)
- General Order for Nut Hullers (New)
- General Order for Food Processors (New)
- California Olive Ranch – Artios (Revised)
- CDCR Mule Creek State Prison WWTF (Revised)
- City of Ceres WWTF (Revised)
- City of Dinuba WWTF (Revised)
- City of Madera WWTF (Revised)
- Kern Sanitation District WWTF (Revised)
- Kettleman City WWTF (Revised)
- Sierra Nevada Cheese (Revised)
- Sonora Regional WWTF (Revised)
- Sun Pacific Exeter Packinghouse (Revised)

ATTACHMENT A

ATTACHMENT A – SANITARY SEWER OVERFLOW SUMMARY

Sanitary Sewer Overflow (SSO) Spills – 1 May 2021 through 30 June 2021

| Spill Cause | Count of Spill(s) | Percent (%) |
|--|-------------------|-------------|
| Root Intrusion | 57 | 48% |
| Debris-General | 19 | 16% |
| Grease Deposition (FOG) | 8 | 7% |
| Vandalism | 6 | 5% |
| Debris from Lateral | 5 | 4% |
| Debris-Rags | 4 | 3% |
| Debris-Wipes/Non-Dispersables | 3 | 3% |
| Other (specify below) | 3 | 3% |
| Pipe Structural Problem/Failure | 3 | 3% |
| Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure | 2 | 2% |
| Pump Station Failure-Controls | 2 | 2% |
| Construction Diversion Failure | 1 | 1% |
| Damage by Others Not Related to CS Construction/Maintenance (Specify Below) | 1 | 1% |
| Debris from Construction | 1 | 1% |
| Flow Exceeded Capacity (Separate CS Only) | 1 | 1% |
| Operator Error | 1 | 1% |

Sanitary Sewer Overflow (SSO) Spills (TOTAL COUNTS) – 1 May 2021 through 30 June 2021

| Office | Category 1 | Category 2 | Category 3 | Total |
|--------|------------|------------|------------|-------|
| 5F | 1 | 0 | 8 | 9 |
| 5R | 0 | 0 | 0 | 0 |
| 5S | 6 | 2 | 101 | 109 |
| Total | 7 | 2 | 109 | 118 |

ATTACHMENT A

- Category 1:** Discharges of untreated or partially treated wastewater of any volume resulting from an enrollee's sanitary sewer system failure or flow condition that:
- Reach surface water and/or reach a drainage channel tributary to a surface water; or
 - Reach a Municipal Separate Storm Sewer System (MS4) and are not fully captured and returned to the sanitary sewer system or not otherwise captured and disposed of properly. Any volume of wastewater not recovered from the MS4 is considered to have reached surface water unless the storm drain system discharges to a dedicated storm water or groundwater infiltration basin (e.g., infiltration pit, percolation pond).
- Category 2:** Discharges of untreated or partially treated wastewater of 1,000 gallons or greater resulting from an enrollee's sanitary sewer system failure or flow condition that do not reach surface water, a drainage channel, or a MS4 unless the entire SSO discharged to the storm drain system is fully recovered and disposed of properly
- Category 3:** All other discharges of untreated or partially treated wastewater resulting from an enrollee's sanitary sewer system failure or flow condition

Sanitary Sewer Overflow (SSO) Spills (DETAILS) – 1 May 2021 through 30 June 2021

| Region | Agency | Collection System | SSO Event ID | County | Did spill Reach Surface waters (Yes/No) | Spill Volume | Volume Reached Surface Waters (Gallons) | Spill Date | Cause of Spill |
|--------|--------------------------------|-----------------------------------|--------------|------------|---|--------------|---|------------|-------------------------|
| 5S | Sacramento Area Sewer District | Sacramento Area Sewer District CS | 874259 | Sacramento | Yes | 4,273 | 3,992 | 5/18/2021 | Debris from Lateral |
| 5S | Sacramento Area Sewer District | Sacramento Area Sewer District CS | 874946 | Sacramento | Yes | 5,157 | 3,093 | 6/21/2021 | Vandalism |
| 5F | Twain Harte CSD | Twain Harte CSD CS | 874950 | Tuolumne | Yes | 1,680 | 1,380 | 6/23/2021 | Root Intrusion |
| 5S | Jackson City | City of Jackson CS | 874323 | Amador | Yes | 397 | 397 | 5/25/2021 | Root Intrusion |
| 5S | Sacramento Area Sewer District | Sacramento Area Sewer District CS | 874711 | Sacramento | Yes | 233 | 161 | 6/11/2021 | Grease Deposition (FOG) |
| 5S | Oakdale City | Oakdale CS | 874866 | Stanislaus | Yes | 139 | 65 | 6/22/2021 | Debris-General |
| 5S | Sacramento Area Sewer District | Sacramento Area Sewer District CS | 874803 | Sacramento | Yes | 47 | 8 | 6/17/2021 | Root Intrusion |