

**California Regional Water Quality Control Board  
Central Valley Region  
Patrick Pulupa, Executive Officer**



**EXECUTIVE OFFICER’S REPORT  
October 4-5, 2018**

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## SUCCESS STORIES

### 1. IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS

Under the Irrigated Lands Regulatory Program, a management plan is triggered when water samples from a monitoring site are tested and a constituent has two or more exceedances of the appropriate water quality limit within a 3-year period. This requires development of a management plan by the Coalition and implementation of improved management practices by member growers. Implementation is deemed successful when the Coalition demonstrates: (1) at least three years of compliance with receiving water limitations; (2) documentation of third-party education and outreach to growers; (3) documentation of implementation of improved management practices; and (4) demonstration of management practice effectiveness.

- **Sacramento Valley Water Quality Coalition**

On 3 August 2018, the Executive Officer approved the completion of two legacy pesticide (DDE) management plans for the Sacramento Valley Water Quality Coalition (Coalition). The management plans were implemented to address DDE exceedances observed in the Lurline Creek and Willow Slough drainages. The Coalition held member meetings and conducted targeted outreach to growers to provide guidance regarding management practices to control run-off, erosion, and sediment discharges. Annual Reports provided by the Colusa-Glenn and Yolo Subwatersheds document that approximately 100% of members parcels in the Lurline Creek and Willow Slough drainages implemented appropriate management practices for the control of erosion and sediment discharge. Water quality analyses showed that receiving water limits were met.

### 2. SITE CLEANUP – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED

- **Metro Auto Dismantling, 19389 County Road 102, Woodland, Yolo County.**

In 2017, Woodyard, LLC excavated and stockpiled petroleum impacted concrete and soil from a former automobile wrecking business. Soil confirmation samples indicated that the soil pollution had been removed. Groundwater monitoring indicated that residual concentrations of petroleum hydrocarbons and methyl tert-butyl ether in groundwater were below water quality objectives. Excavated materials were transported to appropriate landfills between March and June 2018. The site monitoring wells were destroyed during April 2018 and a Final No Further Action Determination letter was issued on 10 July 2018.

- **Land Use Covenant, Effective Date, Sacramento Bee Property Volatile Organic Compounds, 2100 Q Street, Sacramento, Sacramento County.**

In 2013, a determination of no further action required was made for Bunker C fuel pollution associated with former leaking underground storage tanks. Following closure of the Bunker C case, groundwater monitoring was conducted to evaluate concentration trends of chlorinated volatile organic compounds (VOCs) associated with historical operations of the Sacramento Bee building. VOCs concentrations in groundwater have been demonstrated to be trending downward and are projected to continue to decrease with time. The Land Use Covenant that was originally recorded to restrict groundwater use in the area of the Bunker C fuel pollution was updated to include the VOCs and recorded on 22 June 2018. A Conditional No Further Action Determination with Land Use Covenant letter was issued on 27 June 2018. The site monitoring wells were destroyed during August 2018, and a Final No Further Action Determination with Land Use Covenant, Effective Date letter was issued on 28 August 2018.

- **Union Pacific Railroad Upgrades Norden Snowshed, Donner Pass Road, Nevada County.**

After experiencing several spills over the past few decades, Union Pacific Railroad has invested in bringing fueling and spill containment facilities up to current standards at its Norden Snowshed. The snowshed is used for seasonally fueling snowplow equipment. The fuel tank is now double walled with interstitial leak sensors as are the fuel distribution lines. Secondary containment, alarms, auto-dialers, and track pans are now standard features at the fueling station.

- **Final Record of Decision for Site OT017, Beale AFB, Yuba County**

In May 2018, the Record of Decision (ROD) for Site OT017 at Beale Air Force Base (AFB) was finalized by the U.S. Air Force and the State of California (represented by the Central Valley Water Board and Department of Toxic Substances Control). Site OT017 is in the southeastern area of the Base between Dry Creek and Best Slough and occupies about 500 acres. Chlorinated solvents and fuel were released to soil from leaking drums buried at the site. The ROD identifies the final remedy as land use controls (LUCs) prohibiting residential and industrial land use to mitigate future vapor intrusion risks unless appropriate engineering controls are implemented and a restriction on activities in which workers could be exposed to soil vapor containing volatile organic compounds (VOCs). LUCs will remain in place until groundwater is cleaned up or soil vapor concentrations allow for unlimited use and unrestricted exposure (UU/UE). No action is necessary for sediment and surface water. Groundwater cleanup beneath Site OT017 is being addressed separately as part of basewide groundwater Site CG041.

- **Final Record of Decision for Site CG041, Beale AFB, Yuba County**

In June 2018, the Record of Decision (ROD) for Site CG041 at Beale Air Force Base (AFB) was finalized by the U.S. Air Force and State of California represented by the Central Valley Water Board and Department of Toxic Substances Control. Site CG041 represents seven groundwater plumes located beneath various soil sites across the Base. The plumes primarily consist of trichloroethene (TCE) and other chlorinated solvents. Selected groundwater remedy components include hot spot treatment with enhanced reductive dechlorination, permeable reactive barrier installation with in situ chemical reduction, bioremediation, and enhanced attenuation of chemicals of concern. Land use controls (LUCs) will be implemented to prohibit groundwater use. LUCs will also restrict residential land use (or industrial use in localized area of Plume CG041-039) unless vapor intrusion risks at the proposed location are determined to be acceptable or appropriate engineering controls are implemented. Indoor air sampling will be performed at three buildings overlying Plume CG041-039 to determine if the current building use is acceptable. LUCs will remain in place until groundwater is remediated and soil vapor concentrations allow for unlimited use and unrestricted exposure (UU/UE).

- **Remedial Action Plan Finalized for Area 40, Aerojet Superfund Site, Sacramento County**

On 28 August a Remedial Action Plan (RAP) for Area 40 was signed by the Department of Toxic Substances Control for Area 40 on the Aerojet Superfund Site. The Area 40 RAP was a collaborative effort between the Central Valley Water Board, Department of Toxics Substances Control, the United States Environmental Protection Agency, Aerojet and local community stakeholders. The RAP allows the City of Folsom and its developers to commence planning and development of Area 40 primarily for park and open space uses, but also for some residential and commercial sections. The remedy calls for excavation of perchlorate and dioxin contaminated soils, remediation of groundwater using a permeable reactive barrier with a potential for in-situ chemical oxidation enhancements, reduction of trichloroethene concentrations in ambient air by excavation of the source areas, and the establishment of Land Use Covenants (LUCs). The main LUCS restrict the extraction of groundwater, require vapor mitigation measures on all structures with the footprint of vapor and groundwater contamination, restrict uses of specific areas of Area 40 to park land and/or restricted access open space, and prohibit residential construction on the property immediately north of Area 40 until ambient air concentrations are shown to be protective. The LUCs can be removed as remediation completes and sampling shows that the residual concentrations allow for unrestricted use.

- **Former Reedley Dry Cleaner, 1319 G Street, Reedley, Fresno County.**

Discharge of the dry-cleaning solvent tetrachloroethylene (PCE) historically occurred at the site. The discharge contributed to soil and groundwater degradation. Soil and groundwater were remediated by soil vapor extraction (SVE) and air sparging systems operating from 2004 through 2013. Following remediation, PCE concentrations in groundwater were below the State of California Maximum Contaminant Level (MCL). Residual PCE in soil vapor was determined through risk analysis to be below levels that would be a threat to indoor air or groundwater. A Fact Sheet was distributed to nearby property owners and businesses, and was posted on the Central Valley Water Board webpage. Comments were not received regarding the proposed case closure. A closure letter was issued on 27 June 2018.

- **Titan Tank Line Spill, California State Highway 58, Arvin, Kern County.**

A Titan Tank Line tractor-trailer transporting gasoline was involved in an accident on 30 October 2016 resulting in a gasoline spill. Remedial excavation activities were conducted at the site following the spill. In June 2017, a soil investigation was conducted to delineate the vertical and horizontal extent of any remaining residual hydrocarbons. Analytical results of the investigation indicated concentrations for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, methyl tertiary-butyl ether, tertiary-butyl alcohol, di-isopropyl ether, ethyl tertiary-butyl ether, and tertiary-amyl methyl ether were below laboratory minimum detection limits. A Fact Sheet was distributed to nearby property owners and businesses and posted on the Central Valley Water Board webpage. Comments were not received regarding the proposed case closure. A closure letter was issued on 16 August 2018.

## **2. UNDERGROUND STORAGE TANKS – SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED**

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

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

### **a) FRESNO OFFICE**

- **Cal-West Rain, 4939 North Madera Avenue, Kerman, Fresno County**

An Unauthorized Release Report was filed in May 2017 following the removal of two 500-gallon USTs, two 55-gallon drums, and fill pipes. In July 2017, a subsurface soil and soil vapor investigation was conducted. Analytical results of soil samples indicated concentrations of TPHo up to 1,200 mg/kg and TPHd up to 110 mg/kg, with no indications of TPHg, BTEX or MTBE. Remediation was not conducted at the Site. Soil vapor analytical results indicated the Site meets the criteria contained in the Policy for Vapor Intrusion to Indoor Air. Groundwater was not likely affected, as soil contamination did not extend vertically deeper than 25 feet, and groundwater is expected to be at a depth of 50 feet, indicating a buffer of 25 feet of clean soil. There should be no threat to human health or the environment. The case was closed in accordance with the criteria contained in the *Low-Threat UST Case Closure Policy* on 31 July 2018.

- **Westside Elementary School, 19191 West Excelsior Avenue, Five Points, Fresno County**

One 3,000-gallon diesel, one 2,000-gallon gasoline, and a 530-gallon gasoline UST were removed in November 1997. Analytical results of soil samples collected from beneath the former USTs indicated elevated concentrations of total petroleum constituents.

From January 2002 through June 2014, three groundwater monitoring wells were sampled, and analytical results indicated low to medium concentrations of petroleum constituents. The contaminant plume that exceeds water quality objectives was less than 100 feet in length; there was no free product; and the nearest water supply well or surface body is greater than 250 feet from the plume boundary.

Remedial action, including soil excavation and confirmation soil sampling was conducted in May 2016. Approximately 233 cubic yards of gasoline impacted soil was excavated, and confirmation samples collected. Approximately 782 pounds of hydrocarbons (126 gallons of gasoline) was removed from the Site. Residual diesel and heavier hydrocarbons were removed during the excavation activities, and approximately 577 pounds or 81 gallons of diesel remain, associated with the diesel UST. The area of diesel impacted soil was left in place in accordance with the approved CAP Addendum.

The remaining hydrocarbons are not considered a threat to human health, groundwater or the environment. The contaminant plume should continue to attenuate naturally to less than water quality objectives. The case was closed 5 July 2018 in accordance with the criteria contained in the *Low-Threat UST Case Closure Policy*.

- **SAMCO Food Store #3, 8101 East Brundage Lane, Bakersfield, Kern County**

A UST system release was discovered during removal of one diesel UST and two gasoline USTs. Visual staining and hydrocarbons were not observed in the excavation, but TPH was detected to 10,000 mg/kg in soil samples from beneath the gasoline and diesel USTs. Diesel constituents were also detected. The local agency determined that there had been a release and transferred the case to the Water Board. Three soil borings were sampled to 35 feet below ground surface. Trace concentrations of gasoline constituents were detected in a sample from one boring, and TPHg greater than 1,000 mg/kg were detected in most of the other samples. Staff concluded that the high concentrations were associated with an extensive UST release closed by the local agency in 1998, and that the current release was of very small mass, of limited vertical extent, which did not migrate to groundwater. Hydrocarbon source mass should attenuate naturally and there should be no threat to human health or the environment. The case was closed on 17 July 2018, in accordance with criteria contained in the *Low-Threat UST Case Closure Policy*.

- **Jeffries Brothers Oasis, 35750 State Highway 58, Buttonwillow, Kern County**

Laboratory analytical data indicated diesel and gasoline constituents in multiple soil samples collected from beneath fuel dispensers, product piping and USTs, during a May 2015 system upgrade. The local agency determined that a UST release had occurred, and transferred the case to the Water Board. Initial site investigation was conducted in September 2016, when five borings were advanced and sampled. Four additional borings were drilled and sampled during August and September 2017 which verified the vertical and lateral extent of hydrocarbons in soil, and that the release had not affected groundwater. The investigation borings reached a maximum depth of 90 feet bgs. The consultant calculated that a total of 1,430 pounds of hydrocarbons remained in five source areas, as mostly diesel range hydrocarbons, and only 175 pounds in one area was mixed gasoline and diesel range constituents. Based on the low source mass, no further action with natural attenuation was the most feasible and economic remedial option. The hydrocarbon mass should continue to attenuate and there should be no threat to human health or the environment. The case was closed in accordance with criteria contained in the *Low-Threat UST Case Closure Policy* on 16 August 2018.

- **S&R Specialty Equipment, 1144 Flory Avenue, Corcoran, Kings County**

A release from the UST system was discovered in 1986, when one 550-gallon gasoline UST was removed, and the soil surrounding the UST displayed a strong petroleum odor. Approximately 50 cubic yards of contaminated soil was removed, aerated for about one year and returned to the excavation. Hydrocarbon constituents were detected in a water sample from the excavation. Kings County, the local agency, determined that a UST release had occurred and transferred the case to the Water Board. One monitoring well was installed during 2005 and sampled 19 times. Two soil borings were advanced to groundwater and completed as monitoring wells during 2015, which were sampled three times. Shallow soil and soil gas sampling was conducted to evaluate health risk. The consultant estimated that between 2,500 – 5,600 pounds of weathered gasoline constituents remained within 275 cubic yards of soil. Concentrations of TPHg less than 1,000 µg/L, with low benzene concentrations, characterized the contaminant plume throughout the monitoring history. The contaminant plume should continue to attenuate naturally to less than water quality objectives and there should be no threat to human health or the environment. The case was closed on 16 August 2018, in accordance with criteria contained in the *Low-Threat UST Case Closure Policy*.

- **Hathaway's Nursery, 16013 Avenue 296, Visalia, Tulare County**

An Unauthorized Release Report was filed in February 1990 following the removal of three USTs in 1986 and 1988. A series of subsurface investigations were conducted from February 1990 to January 2012 which indicated that petroleum product constituents had migrated to a depth of approximately 32 feet below ground surface in roughly an elliptical shape. It was estimated that the contaminated soil contained 19,500 pounds of petroleum product constituents. An SVE system operated at the site from January 2014 through October 2016 and is estimated to have removed approximately 37,400 pounds of petroleum product constituents from the subsurface. The contaminant plume should continue to attenuate naturally to less than water quality objectives, and there should be no threat to human health or the environment. The case was closed on 8 August 2018 in accordance with criteria contained in the *Low-Threat UST Case Closure Policy*.

- **Waterman Industries, 25500 Road 204, Exeter, Tulare County**

A release from the UST system was discovered in 1998 when two gasoline USTs, fuel dispensers and piping were removed. TPHg, the fuel oxygenate MTBE, and other gasoline constituents were detected in soil samples collected from multiple areas. The case was transferred to the Water Board in 2016. Soil and groundwater investigations were conducted from 1998 through 2003, and contaminated soil was determined to extend to 34 feet below ground surface. During 2000, approximately 500 cubic yards of contaminated soil containing approximately 300 pounds of hydrocarbons was excavated down to 20 – 25 feet and aerated onsite. A soil vapor extraction pilot test during 2003 determined that removal of additional source mass was feasible, but due to bankruptcy, full-time remediation was not conducted. Further soil and groundwater investigation was conducted after a corporate reorganization. The Local Oversight Program determined that case closure was appropriate and submitted a closure summary. Water Board staff did not concur with closure, and recommended additional sampling of the facility water supply well, which had previous detections of gasoline constituents. Full-time soil vapor extraction was also recommended. The responsible party filed a Case Closure Petition which the State Water Board denied. A full-time soil vapor extraction system operated from October 2015 through March 2016 and removed 5,623 pounds of gasoline constituents. The supply well was sampled six times from July through December 2016. The groundwater contaminant plume was determined to be stable and decreasing, and should continue to attenuate naturally to less than water quality objectives. There should be no threat to human health or the environment. The case was closed 17 July 2018 in accordance with criteria contained in the *Low-Threat UST Case Closure Policy*.

## **b) SACRAMENTO OFFICE**

- **Skyline Bear Valley Resort, 2280 State Route 207, Bear Valley, Alpine County**

The Site is an active fueling facility at the maintenance facility on a ridgeline at an elevation of approximately 8000 feet at the Skyline Bear Valley Ski Resort. The Site and surrounding land are owned by the United States Forest Service and are undeveloped except for the ski resort. On October 7, 2015, Resort staff observed a 4-foot by 4-foot puddle of red-dyed diesel fuel adjacent to the dispensers. Resort staff conducted inventory reconciliation and 478 gallons (3,350 pounds) of diesel fuel was unaccounted and apparently stolen between the close of business on October 6 and the start of business on October 7, 2015. By October 22, 2015, the Resort removed petroleum affected soil to the extent feasible (approximately 120 cubic yards that contained about 3 gallons of diesel) and recovered about 20 gallons of fuel in buckets. Confirmatory soil samples collected at the base of the excavation showed low concentrations of total petroleum hydrocarbons as diesel, xylenes and naphthalene remain in soil beneath the release area. The Resort conducted a sensitive receptor survey, including sampling of a nearby supply well which did not contain petroleum. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on July 26, 2018.

- **Pine Grove Station, 20080 Highway 88, Pine Grove, Amador County**

The Site is currently occupied by an active fuel service station with an underground storage tank (UST) for storing gasoline and an above-ground storage tank (AST) for storing diesel fuel. In 2003, Mr. Richard King, the Responsible Party, collected soil samples from beneath the fuel dispenser islands during fuel system upgrade work. The Responsible Party detected gasoline constituents in the soil samples, indicating that a release had occurred. The Responsible Party also excavated an undocumented volume of impacted soil during upgrade work. In November 2004, the Responsible Party installed three groundwater monitoring wells (MW-1 through MW-3) and detected petroleum hydrocarbon constituents in samples collected from the wells. In May and June 2009, the Responsible Party conducted four batch groundwater extraction events, removing approximately 2,200 gallons of impacted groundwater. The Responsible Party continued groundwater monitoring through April 2011, and observed decreasing petroleum hydrocarbon concentration trends over time. Site conditions met the general and site-specific criteria for case closure under the *Low-Threat UST Case Closure Policy*, and the case was closed on 13 August 2018.

- **Sierra Trading Post #4, 500 Highway 49, Sutter Creek, Amador County**

The Site is currently occupied by an active Shell-branded fuel service station and convenience store. On 6 March 1994, the Amador County Sheriff Department discovered a diesel release at the Site which had impacted the adjacent Caltrans sump, culverts, and drainage ditch. STP subsequently excavated contaminated surface soil and replaced a leaking product line. In May 1994, Sierra Trading Post (STP) installed three groundwater monitoring wells (MW-1 through MW-3) at the Site and later discovered light non-aqueous phase liquid (LNAPL) in the wells. STP subsequently initiated LNAPL removal from Site monitoring wells and constructed a slurry wall to minimize off-Site fluid transport. STP operated a groundwater extraction and treatment system at the Site from 2003 to 2007, and a dual phase extraction (DPE) system from 2008 to 2014. In total, STP removed approximately 17,700 pounds of gasoline-range petroleum hydrocarbons and 12,400 pounds of diesel-range petroleum hydrocarbons from the subsurface through remedial system operation. STP continued groundwater monitoring through November 2015, and observed decreasing petroleum hydrocarbon concentration trends over time. STP conducted a sensitive receptor survey in November 2015 and did not find any supply wells within a 2,000-foot radius of the Site. Site conditions met the general and site-specific criteria for case closure under the *Low-Threat UST Case Closure Policy*, and the case was closed on 9 July 2018.

- **ARCO #2077, 1913 Nevada City Highway, Grass Valley, Nevada County**

The Site currently operates as an ARCO branded service station on the eastern corner of Brunswick Road and Nevada City Highway in Grass Valley. In February 1987, an unauthorized release of petroleum hydrocarbons from the Sites UST system was discovered. Between 1991 and 2010, approximately 420 pounds (67 gallons) of petroleum hydrocarbons were removed from the subsurface by bailing free product from monitoring well GV-3 and by groundwater extraction and treatment. Additional petroleum hydrocarbons were removed from the Site by excavating and removing approximately 1,650 cubic yards of impacted soil and 15,000 gallons of groundwater. While data indicates that petroleum hydrocarbons had impacted soil and groundwater beneath the tanks, groundwater sampling data show that the impact to groundwater is defined, stable and is expected to attenuate below established water quality objectives within a reasonable timeframe. The remaining petroleum constituents are unlikely to pose a threat to human health or impact waters of the State as they attenuate and Central Valley Water Board staff concurs with Broadbent's recommendation for regulatory closure in accordance with the *Low-Threat UST Case Closure Policy*. This site was closed on 14 August 2018.

- **Chevron 9-9840, 4344 Waterloo Road, Stockton, San Joaquin County**

The Site is currently in use as a Chevron-branded retail fueling facility in a commercial area of Stockton. In 1998, Chevron discovered an unauthorized release of petroleum hydrocarbons from their on-Site UST system. During that same year, Chevron excavated approximately 725 cubic yards of petroleum affected-soil and commenced groundwater monitoring at the Site under San Joaquin County Environmental Health Department (SJCEHD) oversight. SJCEHD subsequently approved the Site for closure in August of 2013 with concurrence from the Central Valley Water Board that the Site had met *Low-Threat UST Case Closure Policy* criteria. Because Chevron failed to abandon the Site monitoring well network despite numerous requests by SJCEHD, Central Valley Water Board issued MRP Order No. R5-2017-0814 in April 2017 for the continuation of groundwater monitoring activities. Chevron subsequently completed the proper abandonment of the Site monitoring well network in May of 2018. This site was closed on 31 July 2018.

- **Fernandes Speed Shop, 214 South Center Street, Turlock, Stanislaus County**

The Site is currently a paved vacant lot in downtown Turlock. In the 1980's, the Site operated as the Fernandes Speed Shop (Fernandes) and included a fuel service station. In August 1990, Fernandes removed two underground storage tanks (USTs) at the Site and excavated impacted soil beneath the USTs. Fernandes detected petroleum hydrocarbon constituents in soil samples collected from beneath one of the USTs, indicating that a release had occurred. In April 1997, the case was placed in the Emergency, Abandoned, and Recalcitrant (EAR) program. In 1998, four monitoring wells (MW-1 through MW-4) were installed at the Site and routine groundwater monitoring was initiated. In June 2006, oxygen release compound (ORC) socks were installed in four Site monitoring wells to enhance petroleum hydrocarbon biodegradation. From 2008 to 2011, soil vapor probes were installed and soil vapor samples were collected to evaluate the vapor intrusion risk to indoor air; calculated risk levels were below threshold values. Groundwater monitoring continued through November 2011, and decreasing petroleum hydrocarbon concentration trends were observed over time. Site conditions met the general and site-specific criteria for case closure under the *Low-Threat UST Case Closure Policy*, and the case was closed on 23 July 2018.

- **Neilsen's Mini Mart, 17586 Highway 120, Big Oak Flat, Tuolumne County**

The Site currently operates as a retail gas station on Highway 120 in Big Oak Flat. In December 1998, an unauthorized release of petroleum hydrocarbons from the Sites UST system was discovered. Between December 2009 and May 2016, approximately 798 pounds (126.7 gallons) of petroleum hydrocarbons were removed by the soil vapor extraction system. Additional petroleum hydrocarbons were treated through routine injections of hydrogen peroxide and by natural attenuation. While data indicates that petroleum hydrocarbons had impacted soil and groundwater beneath the tanks, groundwater sampling

data show that the impact to groundwater is defined, stable and is expected to attenuate below established water quality objectives within a reasonable timeframe. The remaining petroleum constituents are unlikely to pose a threat to human health or impact waters of the State as they attenuate and Central Valley Water Board staff concurs with WHF's recommendation for regulatory closure in accordance with the *Low-Threat Closure Policy*. This site was closed on 14 August 2018.

- **Sun-Waelty Auto, 569 South Washington Street, Sonora, Tuolumne County**

The Site currently operates as an automotive service business on South Washington Street in south Sonora. In May 1987 and September 1991, an unauthorized release of petroleum hydrocarbons from the Sites UST system was discovered. Between 2007 and 2008, approximately 22 pounds (3.7 gallons) of petroleum hydrocarbons from the subsurface were removed by the dual phase extraction system. Additional petroleum hydrocarbons were treated through in-situ remediation. Oxygen infusion wells were also installed with in-situ Submerged Oxygen Curtain units, which were in use from 2005 to 2012. While data indicates that petroleum hydrocarbons had impacted soil and groundwater beneath the tanks, groundwater sampling data show that the impact to groundwater is defined, stable and is expected to attenuate below established water quality objectives within a reasonable timeframe. The remaining petroleum constituents are unlikely to pose a threat to human health or impact waters of the State as they attenuate and Central Valley Water Board staff concurs with Condor's recommendation for regulatory closure in accordance with the Low Threat Closure Policy. This site was closed on 6 July 2018.

- **Central Transport, 900 F Street, West Sacramento, Yolo County**

The Site is currently a vacant paved truck yard with a warehouse and office space located in a commercial/light industrial use area on F Street in West Sacramento. In July 1996 and June 1998, unauthorized releases of petroleum hydrocarbons from the Sites UST system were discovered. In 1996 approximately 27 tons of petroleum-impacted soil were excavated and removed from the Site. While data indicates that petroleum hydrocarbons had impacted soil and groundwater beneath the tanks, groundwater sampling data show that the impact to groundwater is defined, stable and is expected to attenuate below established water quality objectives within a reasonable timeframe. The remaining petroleum constituents are unlikely to pose a threat to human health or impact waters of the State as they attenuate and Central Valley Water Board staff concurs with Clearwater Group's recommendation for regulatory closure in accordance with the Low-Threat Closure Policy. This site was closed on 14 August 2018.

- **Hira Petroleum / Fill 4 Less, 1573 North Beale Road, Marysville, Yuba County**

The Site is an active service station in Marysville. In 1998, a waste oil UST was removed from the Site. In 2004, seven dispensers, three 10,000-gallon gasoline USTs from a single excavation, and one 10,000-gallon diesel UST from a separate excavation were removed from the Site. Gasoline-related impacts were observed in soil with the highest concentrations observed beneath one of the gasoline USTs and one dispenser. Gasoline also impacted groundwater with separate phase petroleum measured at thicknesses up to 0.20 foot. Investigation activities included drilling 13 soil borings, and installing 9 soil vapor sample points and 6 groundwater monitoring wells. Remediation conducted at the Site consisted of soil vapor extraction (SVE) that operated between November 2010 and July 2013 and removed approximately 3,800 pounds of petroleum followed by injection of a chemical oxidant. The groundwater plume is defined and stable, with groundwater concentrations in most wells meeting water quality objectives. Potential receptors, such as supply wells, are not threatened by the residual petroleum, and natural attenuation processes are expected to continue to degrade the remaining petroleum hydrocarbons at the Site. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on July 26, 2018.

## STAFF RECOGNITION

### SUPERIOR ACCOMPLISHMENT AWARDS

At the August 2, 2018 Board meeting, Executive Officer, Patrick Pulupa presented superior Accomplishment awards to the following staff:

**Employee:** Christine Hernandez  
**Section:** Administration  
**Title:** Office Technician  
**Supervisor:** Doug Patteson

Christine began working at the Central Valley Water Board's Fresno Office about a year ago when several experienced Administrative staff had just retired. Christine had to learn many of the processes for answering calls, handling incoming and outgoing mail, editing correspondence, and helping prepare items for the Board meeting agenda without anyone experienced working with her. She is a quick learner and it did not take her long to understand her job duties and begin excelling at them. Christine was able keep the office's work flowing, and agenda items processed on time, with almost no oversight or assistance necessary.

Christine has continued to improve her knowledge and skills beyond the minimum required for her job classification. She is able to handle whatever work is given to her, and gets it done accurately and on time.

Christine is a valuable asset to the Fresno office and the Water Boards system. She has a great attitude and works cooperatively with staff, dischargers, and the public. As the first contact for many of the stakeholders conducting business with the Board, she represents us professionally and treats every caller or visitor with respect and courtesy.

For the reasons above, Christine is most deserving of the Superior Accomplishment Award.

**Employee:** Janelle Brown  
**Section:** Program Support  
**Title:** Associate Governmental Program Analyst  
**Supervisor:** Kelli Garver

Janelle Brown is an Associate Governmental Program Analyst working for the Central Valley Water Board Rancho Cordova office's Program Support Unit. Janelle is nominated for Sustained Superior Accomplishment for exceptional performance in supporting the Region's NPDES and SWAMP programs and specifically for outstanding work in the development of the Region's laboratory analysis services contract.

In the past several months Janelle has made notable contributions by assisting NPDES program and SWAMP staff in the effort to improve water quality in the American River Parkway. Janelle has provided extensive support on numerous stakeholder meetings to insure all water quality concerns associated with the American River Parkway project are brought to the participating agencies' attention in an organized and efficient manner.

She is also instrumental in helping to implement lean six sigma recommendations for the NPDES program. Janelle's creative touch and her ability to organize extensive program information into a PowerPoint presentation format that is well organized, while meeting the needs of the intended audience was most recently recognized during the Central Valley Clean Water Association's recent annual conference.

Janelle brings an extensive lab background to the Central Valley Water Board and has proved very helpful in serving as the Region's lab coordinator, assisting staff with requests for lab testing services,

replenishing lab supplies, and researching options for lab services. Most recently Janelle was instrumental in the development and securing of Region 5's laboratory analysis services contract. Janelle spent countless hours analyzing the reporting limits and MDLs received from prospective bidders to facilitate a favorable Notice of Contract Award that encompassed all detection needs for the Redding, Fresno, and Rancho Cordova offices.

Janelle is dependable, hardworking, and is always willing to take on extra work to meet the goals of the Regional Board. The Region appreciates Janelle's organizational skills, capabilities, work ethic, and dedication. Janelle's contributions to the Region are invaluable to the Region's success, and I am pleased to nominate Janelle Brown for the Superior Accomplishment Award.

**Employee:** Rebecca Tabor  
**Section:** Irrigated Lands Regulatory Program  
**Title:** Water Resources Control Engineer  
**Supervisor:** Lynn Coster

Rebecca Tabor is a Water Resource Control Engineer in the Redding Irrigated Lands Regulatory Program and is being recognized for her outstanding work performance. Rebecca joined the Central Valley Water Board in May 2015 as a Water Resource Control Engineer in the Non-15/Waste Discharge Requirements Unit and has worked in the Irrigated Lands Unit for the past year.

In this short time, Rebecca has made considerable contributions to the Unit and has fulfilled her role as the liaison to the Sacramento Valley Water Quality Coalition (SVWQC, Coalition), a third-party group that represents growers in the Sacramento River Watershed. Rebecca quickly gained the respect of the Coalition director and the delegates of the thirteen subwatersheds that constitute the SVWQC, and provides regular outreach by attending monthly Coalition meetings. Through her interactions, she has formed personal relationships and has proven to be responsive and professional in her work.

Rebecca is responsible for reviewing monitoring plans and numerous reports submitted by the Coalition as a requirement of the program. True to her ambitious nature, Rebecca has quickly become knowledgeable of the program and is always eager to learn more. One of her many strengths lies in her ability to analyze complex data and in her exceptional communication skills. She recently succeeded in the review of the Coalition's annual monitoring plan, that involved a complicated new protocol for evaluating pesticides. This required significant communication between Rebecca and the Coalition, as well as the evaluation of a complex technical report relative to the protocol.

In her position, Rebecca is often required to juggle multiple work items and various demands of her time. She follows through with her many tasks and is conscientious and hard working. Her positive attitude and aptitude to learn are an asset to the program. The Central Valley Water Board is fortunate to have Rebecca as part of its staff and greatly appreciates her contributions.

## **EMPLOYEE OF THE MONTH**

### **SACRAMENTO OFFICE JULY 2018**

**Employee:** Amy Ha  
**Unit:** Private Sites Cleanup Unit  
**Title:** Water Resources Control Engineer  
**Supervisor:** Steven Meeks

Amy Ha joined the Water Board in February 2015, starting in the Title 27 Permitting and Mining Unit. She later joined the Site Cleanup Program in November 2016. Amy came to us from Golder Associates, where she had over ten years' experience managing site cleanup projects along with landfill and mine sites. On any given day, Amy is responsible for remedial investigation, remedial design, risk assessment and remedial action activities at ten or more complex hazardous waste cleanup sites in our Region. Her sites include dry cleaner facilities, industrial facilities and a large Department of Defense cleanup site. Amy

also managed on the Downtown Sacramento Railyard, which is one of the largest Brownfield restorations sites in the Western United States.

Amy is always willing to take on our most sensitive and complex sites. One example of this is the Titan 1A site in Lincoln. Historical activities at the Titan 1a site include the construction, operation and maintenance of a Titan 1a missile and launch complex. Activities at the site resulted in the release of TCE to area soil and groundwater. Remediation of the site is complicated by the fact that the TCE plume in groundwater has migrated off site and sits partially on private properties that are slated for residential development. To further complicate the issue, the site was listed by the Army Corp of Engineers as a potential responsible party (PRP) site, which means the Army will not commit federal resources on cleanup. The current landowner (Placer County) did not agree with this position.

Due to the disagreements between the two parties, the project sat idle for almost ten years. As soon as Amy took over the project she contacted stakeholders to hear and evaluate each of their positions and sensitivities. She briefed Region 5 management, State Board staff, Army Corp staff and DTSC supervisors on options for a path forward. Amy also prepared a draft 13304 CAO to help motivate the different groups to join us at the negotiation table. Through her hard work and diligent effort, Amy was not only able to bring the stakeholders together but was able to convince the Army Corp of Engineers to put the site back into their "Formerly Used Defense Site" program and provide the resources needed to move forward with the characterization and remediation activities.

At the same time Amy was working with Department of Defense officials to fund investigation and remediation activities at the Titan 1a site, she was also working closely with area developers that were planning to construct single family homes in the area. Using her engineering and regulatory experience, Amy convinced developers to make the changes needed to ensure that all necessary protections are in place prior to construction of homes. Her work on these complex issues will ensure the safety of future residents and workers on the properties.

In addition to Titan 1a, Amy has been working on a long list of complex issues at the Former Sutter Hospital Development Site. The site is a proposed residential development in the downtown Sacramento area and has a highly compressed redevelopment schedule. To meet schedule demands, Amy is working closely with the Sacramento County Environmental Health Management Department (County), who is the lead agency, the Developer and all other stakeholders at the site. She reviewed a number of historical and highly technical remedial investigation documents in a very short time and provided clear and accurate comment and recommendations which identified critical data gaps. Her review was instrumental in ensuring that contamination on site was fully characterized and that a through groundwater investigation was complete prior to starting redevelopment activities.

These are just a few of the projects that Amy is working on. But are great examples of her ability to manage complex sites and to keep them moving forward to eventual cleanup and closure. For all this and much more, Amy is well-deserving of the Employee of the Month award.

**Employee:** Della Kramer  
**Unit:** Admin/Operations  
**Title:** Management Services Technician  
**Supervisor:** Brett Braidman

Della Kramer has work for the Regional Board for 27 years. She serves as a Management Services Technician in the Operations Unit in the Rancho Cordova office. Della is deserving of this recognition for her consistent high-quality and accurate work products, her positive attitude and her professionalism.

The following list highlights some of Della's most recent accomplishments:

- As the end of the fiscal year approached, an influx of invoices were received. Della managed to keep up with the increased workload to ensure timely and accurate processing of the invoices;

- Prior to a recent vacation that she took, Della made a point, without being asked, to go over her desk procedures with fellow staff and management to ensure that time sensitive projects on her desk would be handled without unnecessary delay;
- Paying close attention to detail, Della caught an invoice error that helped us avoid delayed payment to a vendor and prevented us from making a payment in error; and lastly,
- When her workload slowed, Della informed management and asked to be of help to others or to take on additional projects.

Della models the highest level of customer service and work ethic and is a tremendous asset to our Region. For these reasons, she is deserving of this award.

**Employee:** Taranjot (Taran) Sahota  
**Unit:** Nonpoint Source Planning and Assessment Unit  
**Title:** Environmental Scientist  
**Supervisor:** Jennifer LaBay

Taran is being recognized for her outstanding work planning and coordinating the recent Clear Lake Nutrient TMDL Board Workshop. This workshop was in response to a controversial public meeting held at Clear Lake last year. Taran dedicated much time and effort over the last few months on the workshop details. She coordinated with multiple stakeholders and internal staff, who participated in the workshop, on the format, presentations, and meeting materials.

In addition, Taran was lead on drafting a Tech Memo summarizing the implementation status of the TMDL, which the Board workshop was based around. She also helped develop new Clear Lake focused outreach and educational materials that were made available to the public.

Taran's fine work and excellent planning resulted in an informative, non-controversial, and smooth-running Board workshop that has paved the way for next steps on the Clear Lake Nutrient TMDL. For this and so much more, Taran is very deserving of the Employee of the Month Award.

#### **FRESNO OFFICE-JULY 2018**

**Employee:** Mike Grill  
**Unit:** Surface Water Ambient Monitoring Program  
**Title:** Environmental Scientist  
**Supervisor:** Daniel L. Carlson

Mike is receiving this award for his work in the Surface Water Monitoring Program (SWAMP) Unit. He has been an Environmental Scientist in the SWAMP unit in the Fresno office for just over one year. Prior to coming to the Regional Board, Mike was a Scientific Aide for seven years with the California Department of Fish and Wildlife. He has come up to speed quickly and is helping to address several key issues including the weekly sampling for bacteria along the San Joaquin River, acting as technical advisor for the administration of the Basin Planning contract for the salmonid temperature study, the development of an in-house temperature study along the Kings River, providing technical assistance to staff in other units in the Fresno office, and taking the lead on addressing the fresh water Harmful Algal Blooms including responding to investigate and sample reported blooms and perform pre-holiday sampling as requested by State Board staff. The former recently involved Mike sampling Pine Flat Reservoir on a Saturday with staff of the US Army Corps of Engineers.

Mike does not hesitate to step up when the situation requires it. He is articulate, detail oriented, and has an ever-positive attitude. He has added his expertise to this office, broadening our ability to address water quality issues.

## REDDING OFFICE - JULY 2018

**Employee:** Michael Parker  
**Unit:** Cannabis Regulatory and Enforcement  
**Title:** Engineering Geologist  
**Supervisor:** Griffin Perea

Michael is being nominated for his continued contributions to the Cannabis Unit and to the Redding office as a whole. Michael was hired in the winter of 2016 as an Engineering Geologist for the Redding Cannabis Regulatory and Enforcement Unit and immediately began demonstrating an outstanding work ethic and willingness to tackle multiple aspects of a newly formed and expanding program.

When initially hired, Michael immediately juggled learning both permitting and enforcement aspects of the program. Shortly after Michael was hired the unit lost two experienced staff members, leaving Michael as the sole staff for the unit. During this time Michael quickly rose to the challenge of continuing permitting actions and prioritizing workloads to ensure high priority items were completed. As the program has grown Michael has consistently demonstrated a willingness to train and mentor new staff, including staff outside of the Redding office. Michael has served key roles in coordinating and conducting large scale enforcement efforts with multiple agencies during the summers of 2017 and 2018. In addition to the core program responsibilities, Michael has been involved with a long-term study in the Deer Creek Watershed, assisting the California Department of Fish and Wildlife to document water quality impacts from illegal cannabis cultivation sites.

Michael's positive attitude and willingness to help his fellow staff are truly admiral qualities that are not overlooked. Michael is hard working and conscientious of timelines and has become a "go to" person within the cannabis program. Michael's contributions to the Cannabis Unit and the Central Valley Water Board are greatly appreciated.

## SACRAMENTO OFFICE - AUGUST 2018

**Candidate:** Houa Yang  
**Unit:** Water Quality Certification and Dredging/Storm Water Permitting  
**Title:** Scientific Aid  
**Supervisor:** Stephanie Tadlock

Houa is a Scientific Aid in the Water Quality Certification and Dredging Unit. Houa has been with the Unit since April 2013. Houa is an integral part of the day to day workflow within the Unit. Houa provides the following key contributions to the unit, including:

- Processing incoming 401 applications and indexing all projects into ECM;
  - Assigning WDID numbers to each incoming project;
  - Processing all data entry into CIWQS for the Unit;
  - Intake processing and drafting response letters for an average of 15-20 CEQA documents per week for staff review and signature;
  - Sending out issued orders, notices, and determinations to permittees, consultants, and other federal and state agencies for review;
  - Filing notices with the State Clearinghouse in a timely manner after a board determination has been made; and
  - Assisting in filling documents in the file room after the board determination has been issued.
- Houa exhibits a high level of organizational skills, customer service, and willingness to assist in solving problems and finding answers in a fast and efficient manner. Her "can-do" attitude and willingness to go above and beyond makes her a valued member of the Unit and the Regional Board. For this and many other reasons, she is deserving of the Employee Recognition Award.

## **FRESNO OFFICE- AUGUST 2018**

**Employee:** Lorin P. Sutton  
**Unit:** Confined Animal Facilities Unit  
**Title:** Engineering Geologist  
**Supervisor:** Dale E. Essary

Lorin is receiving this award for his work in the Confined Animal Facilities Unit. He consistently demonstrates a willingness and ability to increase his knowledge of the Confined Animal Facilities program. He is professional in dealing with consultants and responsible parties for his projects. He has a good attitude and focus on the more than one hundred projects he is assigned to.

During July, Lorin completed four information reviews, including responses; one closure inspection, resulting in a rescission letter; one compliance inspection; and one merger letter approving the merger of a feedlot to a dairy. Lorin also drafted three other feedlot-to-dairy mergers and a draft enforcement letter. He is also coordinating the effort to issue several Notices of Applicability for newly-regulated feedlots.

Lorin is always willing to take on extra assignments, which he completes in a timely manner. He is a valuable asset to the Board and deserving of the Employee Recognition Award.

## **REDDING OFFICE - AUGUST 2018**

**Employee:** Michael Nilsen  
**Unit:** NPDES  
**Title:** Water Resource Control Engineer  
**Supervisor:** Jeremy Pagan

Michael Nilsen is a Water Resource Control Engineer working in the NPDES Unit of the Redding office of the Central Valley Water Board. Michael was hired in January 2018, and in a relatively short span of time he has proven himself to be reliable, hardworking, a quick learner, and a tremendous contributor to the NPDES Unit and Redding office.

Michael manages a challenging permitting and compliance/enforcement case load consisting of: large complex municipal wastewater treatment plants, small wastewater and water treatment plants in disadvantaged communities, industrial food processors, collection systems, and general order enrollees. Michael handles himself in a professional manner and has developed a great working relationship with the dischargers he oversees and the regulated community. He has great work ethic, good time management skills, and consistently delivers quality work on time. Michael has been involved in numerous site inspections, worked on several permit rescissions, issued multiple general order enrollments, pursued investigations with some problematic sites, issued notices of violation, and most recently completed his first preliminary draft NPDES permit that is scheduled for adoption at the December 2018 Central Valley Water Board meeting.

Michael consistently comes to work with a great attitude and positive demeanor ready to tackle whatever challenges the NPDES program has to offer. He is an excellent, developing engineer, with both great communication and analytical skills, and he consistently exceeds expectations. Michael is highly valued for his significant role with the NPDES Unit, and his contributions to the unit and to the Central Valley Water Board are valued and most appreciated.

## 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 Executive Officer's Report (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.

- 1) Orders 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; enforcement-related 13267 Investigative Orders; and Administrative Civil Liability (ACL) Orders) that have been issued by the Central Valley Regional Board since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database. Enforcement

**Enforcement Table 1** – Region 5 Enforcement Orders (1 July 2018 through 24 August 2018)

Date	Agency	County	Notes
7/11/2018	City of Nevada City	Nevada	Settlement Agreement and Stipulation for Entry of Administrative Civil Liability (ACL) Order R5-2018-0507 issued in the amount of \$54,000 addresses mandatory minimum penalty (MMP) effluent limitation violations that occurred between 1 January 2016 and 28 February 2018. The full amount of the ACL shall be suspended pending completion of a Compliance Project which consists of renovating the Facility's sand filter/traveling bridge automation and backwash system.
8/8/2018	City of Jackson	Amador	Settlement Agreement and Stipulation for Entry of ACL Order R5-2018-0517 in the amount of \$178,959 for MMP violations of Waste Discharge Requirements (WDRs) Order R5-2013-0146-01 (NPDES CA0079391) and Time Schedule Order (TSO) R5-2015-0003-01 related to discharge of partially treated wastewater between 1 June 2016 and 31 January 2017. The Order suspends \$89,479 of the penalty amount pending completion of a Supplemental Environmental Project (SEP) pursuant to California Water Code section 13385(l). The Discharger has chosen to provide grants to private property owners to repair and replace private sewer lateral and related infrastructure, as described in Attachment C to the Order.

Enforcement Table 2 includes a list of all the ACL Complaints that have been issued since the last EO Report.

**Enforcement Table 2 – Region 5 ACL Complaints (1 July 2018 through 24 August 2018)**

Date	Agency	County	Notes
7/16/2018	Donner Summit Public Utilities District	Nevada	ACL Complaint R5-2018-0509 issued for \$9,000 for MMP effluent limitation violations that occurred between 1 January 2017 and 31 December 2017.
7/24/2018	Sierra Pacific Industries Redding	Shasta	ACL Complaint R5-2018-0518 issued for \$30,000 for MMP effluent limitation violations that occurred between 19 January 2016 and 28 February 2017.

In addition to all the above, there was one additional Water Code section 13267 Order recorded in GeoTracker that was not recorded in CIWQS. That Order requires the Discharger (Grischott Brothers) to conduct periodic sampling of 22 abandoned/inactive wells at the site, a service station in Stanislaus County.

- 2) **Enforcement Update** – Enforcement Table 4, included below, summarizes the enforcement actions issued in all the Regions since the last EO Report. From a statewide perspective, Region 5 was responsible for 15% of all the enforcement actions tracked in CIWQS during this period including 38% of all NOVs and 22% of all ACLs.

**Enforcement Table 3 – ILRP Enforcement Actions (1 July 2018 through 24 August 2018)**

Office	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to 13260 Directives	NOVs for Failure to Submit 2017 Farm Evaluation and/or Nitrogen Management Plan Summary Report	Total
Fresno	13	1	205	219
Sacramento	92	109	0	201
<b>Total</b>	<b>105</b>	<b>110</b>	<b>205</b>	<b>420</b>

**Enforcement Table 4 – Statewide Enforcement Actions in CIWQS (1 July 2018 through 24 August 2018)**

Region	VER	SEL	NOV	NNC	13267	EPL	ACL	Total
1	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	2	3
3	0	0	14	26	0	3	0	43
4	0	0	6	52	0	10	11	79
5F	0	1	4	0	0	0	0	5
5R	2	0	4	0	0	0	3	9
5S	0	0	29	17	0	0	3	49
<b>RB5 Total</b>	<b>2</b>	<b>1</b>	<b>37</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>63</b>
6	8	2	0	0	0	0	0	10
7	0	2	0	0	0	0	2	4
8	9	7	0	114	0	0	0	130
9	0	16	2	0	1	1	0	20
<b>Total</b>	<b>21</b>	<b>29</b>	<b>97</b>	<b>226</b>	<b>1</b>	<b>14</b>	<b>27</b>	<b>415</b>
<b>Enforcement Actions:</b>								
<b>VER</b> = Verbal Communication				<b>EPL</b> = Expedited Payment Letter				
<b>SEL</b> = Staff Enforcement Letter				<b>ACL</b> = Administrative Civil Liability				
<b>NOV</b> = Notice of Violation								
<b>NNC</b> = Notice of Non-Compliance								
<b>13267</b> = Water Code Section 13267 Investigative Order								

Finally, the Regional Board's Irrigated Lands Regulatory Program (ILRP) does not upload enforcement action data to the CIWQS or GeoTracker databases. A summary of those enforcement actions are included in Table 3, below.

## Performance Targets

Performance measurement and reporting is an important component of a complete system of performance management needed to demonstrate how well programs or strategies are working and why. 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 link below and was used to develop the FY 2018-2019 performance targets [http://www.waterboards.ca.gov/about\\_us/docs/resource\\_alignment\\_report.pdf](http://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf).

Below is the Region 5 Performance Measurement Summary for the 2018-19 fiscal year. This report was produced with data through 15% of the current fiscal year.						
<b>Region 5 Performance Measurement Summary from 1 July 2018 through 24 August 2018</b>						
Programs	Original Target	* Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	** Total # of Inspections Performed	Comments
<b>NPDES Wastewater</b>						
Major Individual Permits Issued, Revised, and Renewed	8	1	13%	n/a	n/a	
Major Individual Facilities Inspected	24	1	4%	n/a	1	
Minor Individual Permits Issued, Revised, and Renewed	12	0	0%	n/a	n/a	
Minor Individual Facilities Inspected	17	2	12%	n/a	2	
Minor General Enrollees Facilities Inspected	0	0	N/A	n/a	0	
<b>Waste Discharge to Land – Wastewater</b>						
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	26	4	15%	n/a	n/a	
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	161	31	20%	n/a	33	
<b>Land Disposal</b>						
Landfills Permits Issued, Revised, and Renewed	13	3	23%	n/a	n/a	
Landfill Inspections	111	7	6%	n/a	7	
All Other Permits Issued, Revised, and Renewed	2	1	50%	1	n/a	
All Other Inspections	30	1	3%	n/a	1	
<b>NPDES Storm Water</b>						
Stormwater Construction Inspections	385	24	6%	n/a	24	
Stormwater Industrial Inspections	195	18	9%	n/a	18	
Stormwater Municipal Inspections	0	0	N/A	n/a	0	
<b>Other Programs</b>						
Forest Activities Inspections	166	13	8%	n/a	14	
Confined Animal Facility Inspections	275	23	8%	n/a	23	
<b>Clean Up</b>						
New DoD Sites Into Active Remediation	6	1	17%	n/a	n/a	
New SCP Sites Into Active Remediation	50	2	4%	n/a	n/a	
Cleanup Program Sites Closed	60	9	15%	n/a	n/a	
New UST Sites Into Active Remediation	23	2	9%	n/a	n/a	
Underground Storage Tank Sites Closed	68	23	34%	n/a	n/a	
* Actuals: Number of facilities inspected or permits issued.						
** Total #: Number of inspections completed including all reinspections.						

## SANITARY SEWER OVERFLOWS AND COMPLAINTS

### Sanitary Sewer Overflows (SSOs) in Excess of 50,000 gallons

There were no SSO events in excess of 50,000-gallons in June of 2018.

For this reporting period, there were **75** total SSO spills: **6** Category 1, **2** Category 2, and **67** Category 3 spills. Relevant data from all of the spills occurring during this reporting period is included as **Attachment A**.

### 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 webpage at:

[http://www.waterboards.ca.gov/water\\_issues/programs/sso/index.shtml](http://www.waterboards.ca.gov/water_issues/programs/sso/index.shtml). Sewage Collection Agencies report SSOs on-line at the State Water Board's CIWQS database pursuant to the requirements of State Water Board Order No. 2006-0003-DWQ (*General Statewide Waste Discharge Requirements for Sewage Collection Agencies*).

## COMPLAINTS AND OTHER WATER QUALITY THREATS OR IMPACTS

### Complaints

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. Since implementing a new tracking system in December of 2016, Central Valley Water Board staff have logged **336** complaints from phone calls, emails, and from the CalEPA Complaint database (<https://calepacomplaints.secure.force.com/complaints/>). To date, **303 (90%)** complaints have been investigated and closed, or referred to another environmental enforcement agency. Investigations for the remaining **33** complaints remain ongoing.

## DELTA ACTIVITIES

### 1. Delta Mercury Exposure Reduction Program

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

Delta Conservancy and Board staff are collaboratively directing a new program coordinator to complete the final 18 months of implementation for MERP. The focus for this last phase is sustainability for mercury exposure reduction program activities.

In August, MERP staff approved two proposals from the Executive Directors of First 5 in Yolo County and San Joaquin County for outreach and education activities in fiscal year 18-19. A third proposal for Solano County is currently under review. First 5 is a state-wide program that provides a variety of programs and services for children prenatal through age 5 and their families to optimize early childhood development. Collaboration with First 5 staff to incorporate the MERP fish consumption advisory message into existing First 5 programs for children and their families will be a sustainable opportunity to continue educating the public how to reduce mercury exposure from fish consumption.

## 2. **Delta Regional Monitoring Program (Delta RMP)**

The Delta RMP Steering Committee (SC) met on 23 July 2018 to approve the fiscal year 2018-19 Budget and Workplan for continued pesticide and toxicity monitoring. The SC also allocated funding to develop a Quality Assurance Program Plan (QAPP) and begin the planning phase for monitoring for Contaminants of Emerging Concern in the Central Valley.

Several Pesticide Subcommittee meetings took place in July and August 2018 to discuss how to stratify the Delta and review a draft QAPP for the new pesticides and toxicity monitoring design. The design includes two fixed monitoring sites in addition to a probabilistic rotating Delta sub-region design. The TAC will meet on 21 September 2018 to discuss the final QAPP revisions before monitoring begins in October. The TAC also will hear an info item on data management for the Delta RMP.

In August, the Data Management Subcommittee met to review the draft Delta RMP Data Management Plan. The group also discussed draft revisions to the Delta RMP's Quality Assurance Program Plan. A new section addressing Communication and Corrective Action Protocols for the program's monitoring data will be added for fiscal year 2018-19 monitoring.

In September, the Nutrient Subcommittee met jointly with the Delta Nutrient Stakeholder & Technical Advisory Group (STAG) to discuss proposals under development for the Science Action Plan.

## 3. **Delta Nutrient Research Plan**

On 2 August, the Central Valley Water Board adopted Resolution R5-2018-059 approving the Delta Nutrient Research Plan and directing staff to proceed with implementation of the Plan. The objectives of the Delta Nutrient Research Plan are to identify and fill information gaps to determine whether numeric nutrient water quality objectives are needed for the Delta and determine objective values as needed. The Plan contains background information on water quality problems in the Delta associated with nutrients, management questions, and prioritized monitoring, special study, and modeling needs.

Delta nutrients stakeholders met on 15 and 20 August to develop ideas for possible projects that could be funded through Prop 1 or other funding opportunities. Success of the Water Board's Delta Nutrient Research Plan depends on collaborating with other entities working in the Delta and obtaining new funding. The next STAG meeting will be held 18 September in the Rancho Cordova office.

The final Delta Nutrient Research Plan, meeting information, and supporting documents, are available here:

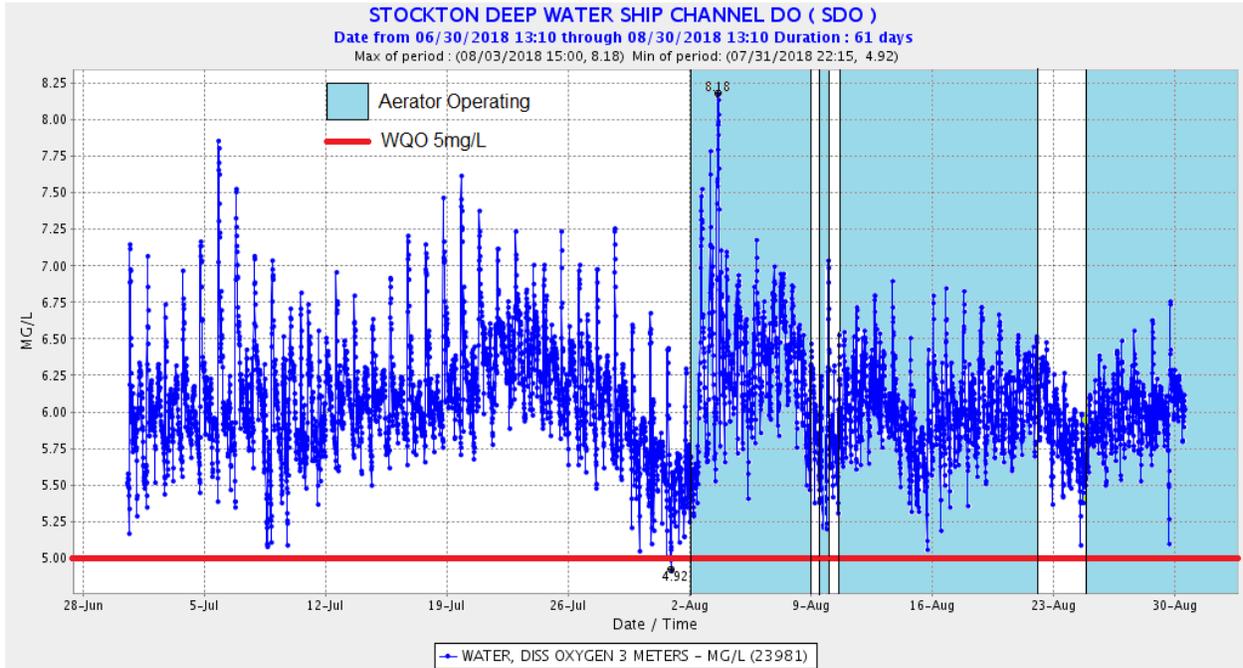
[https://www.waterboards.ca.gov/centralvalley/water\\_issues/delta\\_water\\_quality/delta\\_nutrient\\_research\\_plan/](https://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/delta_nutrient_research_plan/)

## 4. **San Joaquin River Dissolved Oxygen TMDL Implementation - Aeration Facility**

In 2006-2007, an aeration facility was constructed on the Stockton Deep Water Ship Channel as part of the San Joaquin River 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 1 July 2018 to 30 July 2018, there were no excursions below the dissolved oxygen (DO) water quality objective concentration of 5 milligrams per liter in the channel and operation of the aeration facility was not necessary. The DO concentration dropped just below the water quality objective on 1 August. On 2 August, the aerator was turned on and DO concentrations rapidly improved. The aerator remains in operation as of 30 August. During this time period, the aerator had to shut down a

few times due to dredging in the Stockton Deep Water Ship Channel near the aerator. When the aerator could not operate, DO declined, falling briefly below 5 mg/L on 1, 0 and 11 occasions at the subsurface, 3-meter and 6-meter depths, respectively. DO concentrations then recovered rapidly when the aerator was turned back on. Figure 1 shows the dissolved oxygen concentrations measured at the 3-meter depth during 1 July 2018 through 30 August 2018.



DO data from the Stockton Deep Water Ship Channel can be found here:  
[http://cdec.water.ca.gov/dynamicapp/staMeta?station\\_id=SDO](http://cdec.water.ca.gov/dynamicapp/staMeta?station_id=SDO)

For more information on the San Joaquin River/DWSC dissolved oxygen TMDL Control Program:

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

## TMDL BASIN PLANNING

### 1. Pesticide Basin Planning/TMDLs

#### Central Valley Pyrethroids Basin Plan Amendment and TMDL

On 8 June 2017 the Board adopted the Basin Plan Amendment for the Control of Pyrethroid Pesticide Discharges. The State Water Board approved the Basin Plan Amendment on 10 July 2018. The amendment still needs to be approved by the Office of Administrative Law and US EPA before becoming fully effective.

## SALINITY AND CV SALTS

### 1. **Central Valley Salinity Alternatives for Long-Term Sustainability (CV-SALTS)**

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

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

The Basin Plan Amendment (Salt and Nitrate Control Program BPA) with supporting Staff Report and Substitute Environmental Documentation was adopted on 31 May 2018 (Resolution R5-2018-0034). The amendments must be approved by the State Water Resources Control Board, Office of Administrative Law and for those portions subject to the Clean Water Act, by the USEPA. The Adoption Resolution with the final Staff Report and Basin Plan Amendment language can be found at the following location:

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

As staff work to bring the amendments to the State Water Board for consideration, focused stakeholder meetings are continuing through the CV-SALTS Public Education and Outreach Committee and work continues to finalize a Clean-up and Abatement Account grant to initiate pilot studies for working with local dischargers and agencies to identify and provide safe drinking water to users with elevated nitrate in groundwater supplies and to frame the workplan for the salinity Prioritization and Optimization Study.

The State Water Board circulated the Central Valley Water Board's CV-SALTS Basin Plan Amendments for public comment on July 13, 2018, and set a comment deadline of August 13, 2018. Staff from the State Water Board is currently evaluating the Basin Plan Amendment package, the administrative record, and comments received from interested stakeholders. Central Valley Water Board staff and management are engaged in regular meetings with State Water Board staff and management in an effort to move the Amendments forward as expeditiously as possible.

### 2. **Lower San Joaquin River Salt and Boron Water Quality Objectives (WQOs)**

On 9 June 2017, the Board adopted the proposed Basin Plan Amendments (BPA) and supporting draft Staff Report to establish salinity WQOs on the Lower San Joaquin River. A State Board hearing was held on 9 January 2018 and the amendments were unanimously approved by the State Board members. The amendment was then approved by the Office of Administrative Law on 19 April 2018. The amendments are currently being reviewed by US EPA and will be in effect after their approval.

Information on the proposed Amendment and supporting projects can be found at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/upstream\\_salt\\_boron/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/upstream_salt_boron/index.shtml)

### 3. **Evaluation of Municipal and Domestic Supply (MUN) Beneficial Use in Ag Dominated Surface Water Bodies**

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

On 28 August, Patrick Pulupa, Adam Laputz, Anne Littlejohn, Cindy Au Yeung and True Khang attended a conference call meeting with representatives from the Environmental Law Foundation, the Leadership Counsel and the Environmental Working Group to discuss their comments on the proposed MUN evaluation process amendments.

More information on the project can be found at:  
[http://www.waterboards.ca.gov/centralvalley/water\\_issues/salinity/mun\\_beneficial\\_use/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/index.shtml)

**4. CV-SALTS Meeting Participation**

On 16 August, Patrick Pulupa, Anne Littlejohn, Walt Plachta and Glenn Meeks participated in the CV-SALTS Executive Committee meeting. Discussions focused the Basin Plan Amendment Approval process and on program implementation planning.

On 13 July and 14 August, Walt Plachta and Glenn Meeks participated in the CV-SALTS Public Outreach and Education Committee conference call meetings. The meetings focused on outreach tracking and details of the proposed workshops for public outreach to be held in Modesto and Tulare in December 2018 and January 2019, respectively.

**5. United States Bureau of Reclamation (USBR)—Management Agency Agreement (MAA)**

An MAA meeting with Central Valley Water Board staff and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District was held on 18 June 2018. The discussion centered around activities supporting the San Joaquin River Real Time Management Program activities (RTMP). USBR’s draft fiscal year 2018/19 Work Plan was released for public comment in July 2018. A final draft and response to comments will be submitted to the Central Valley Water Board in early September 2018. The next quarterly MAA meeting is scheduled for 17 September 2018.

On 7 August, Anne Littlejohn participated in a meeting with the Real Time Management Program’s steering committee. During the meeting, the committee was provided an update by USBR on the RTMP forecasting tool. The committee also discussed future coordination efforts and identified funding actions needed to fully implement the program.

**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 Table 1, below, summarizes the Notices of Applicability that were issued between 1 July 2018 and 31 August 2018.

NPDES Table 1

Facility	General NPDES Permit Number	General Permit Name
Patterson Sand and Gravel Facility Dewatering Project	R5-2016-0076-045	General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Waters
Ralston Afterbay Dam Low Level Outlet Project	R5-2016-0076-042	
Kiefer Landfill Groundwater and Extraction and Treatment Plant	R5-2016-0076-033	
Southport Levee Improvement Project	R5-2016-0076-046	

Facility	General NPDES Permit Number	General Permit Name
El Dorado Irrigation District El Dorado Hills Wastewater Treatment Plant, El Dorado County	R5-2017-0085-002	Municipal Wastewater Dischargers That Meet Objectives/Criteria at the Point of Discharge to Surface Water

### Storm Water

On 9 April 2018, Adam Laputz, Anne Littlejohn, Richard Muhl, Alisha Wenzel, Elizabeth Lee, and Janelle Brown, attended and facilitated the first stakeholder Lower American River Parkway meeting at Sacramento Regional Sanitation District's Office. Approximately 60 federal, state, and local water officials, representatives from homeless advocacy and environmental groups, stakeholders and interested parties attended. The meeting's objective was to identify potential coordination among participants for water quality improvement in the American River Parkway. The meeting included breakout discussion groups that included topics on homelessness, *E. coli*, and trash.

Since the stakeholder meeting on 9 April 2018, we have formed an American River Parkway task force (steering committee), held multiple meetings, developed a charter, and Sacramento County has set up a website. Members of the steering committee include key Regional San/Sacramento Area Sewer District decision makers, Regional Board and State Board staff, key members from the Sacramento storm water group, and Sacramento County Parks and Recreation Director. The focus of the steering committee is to identify and provide ways to assist Sacramento County with the trash and *E. coli* issues.

Regional Board staff are continuing to monitor for *E. coli* on a weekly basis and provide the results to the Sacramento County Health Department and Sacramento County Parks and Recreation. In addition, a special study is getting underway to identify the sources of the *E. coli*. Specifically, the study will identify whether the sources are bird, dog or human. We have partnered with the San Francisco Estuary Institute (SFEI) and the Southern California Coastal Water Resources Project (SCWRP) for assistance on developing the monitoring design. The study results will not be available for over one year so we are continuing to work on *E. coli* issues and send out press releases when we detect elevated *E. coli* levels. Additionally, we are continuing to look for ways to help Sacramento County clean up trash in the American River Parkway on a long-term basis. We are working with the State Board and other Regions to identify ways to assist the County with the trash issue.

The American River Parkway Project is a beta test and we hope to apply the lessons learned in the Parkway to other municipalities and areas impacted by trash and *E. coli*.

### 401 Certifications/Dredging

In March 2018, Nicholas White, James Marshall, David Lancaster, and Adam Laputz began work toward drafting a Memorandum of Understanding between the United States Army Corps of Engineers (USACOE), San Francisco District, and the Central Valley Regional Water Quality Control Board (Central Valley Water Board) that addressed operations and maintenance dredging activities occurring within the Stockton and Sacramento Deep Water Ship Channels (DWSC).

On 17 May 2018, an interim MOU to cover 2018 activities was signed by both agencies. A Turbidity Monitoring Plan and 2018 Dredging Timeline was submitted by the USACOE for review in June 2018 that identified actions specific to the 2018 maintenance dredging period.

In late 2018, coordination between the USACOE and Central Valley Water Board staff will continue toward a permanent MOU for ongoing operation and maintenance dredging activities with the Stockton and Sacramento DWSC.

## **DAIRIES/CONFINED ANIMAL FACILITIES**

### **Dairy Digesters**

The California Department of Food and Agriculture (CDFA) announced it has awarded \$69.9 million in grant funding to 40 dairy digester projects across the Central Valley. These projects, part of the Dairy Digester Research and Development Program, will reduce greenhouse gas emissions from manure on California dairy farms. Water Board staff took an active role as Technical Advisory Committee members in the review of dairy digester project proposals under a competitive grant application process. Dairy digester grant recipients will provide an estimated \$95.5 million in matching funds for the development of their projects.

### **Alternative Manure Management**

The California Department of Food and Agriculture announced it is accepting new dairy and livestock manure management practices for consideration in the Alternative Manure Management Program, which provides financial assistance for the implementation of non-digester manure management practices, resulting in reduced greenhouse gas emissions. Water Board Staff is participating as Technical Advisory Committee members in the review of several proposals a competitive grant application process.

## **OIL FIELDS**

### **1. Waste Water Surface Ponds**

Oil Field staff have received a total of 30 Notices of Intent (NOIs) for coverage under one of three Waste Discharge Requirements General Orders for Oil Field Discharges to Land (General Orders). Staff anticipates that coverage under one of the General Orders will be appropriate for all applications that have been received. Staff has issued 11 Notices of Applicability (NOA) for a total of 36 ponds (3 NOAs for General Order 3 and 8 NOAs for General Order 2). Three additional NOAs are in draft form. Staff is continuing to work with applicants that have not been issued a NOA to obtain coverage under the appropriate General Order or close their facility.

Operators that do not use their pond(s) and do not intend to enroll under one of the General Orders have either submitted a closure plan or are preparing a closure plan for their facility. The Central Valley Water Board has received closure plans for approximately 165 ponds. Staff has approved 8 closure work plans covering 9 ponds. Staff is continuing to review and respond to closure plans to insure the proper closure of these facilities.

Staff continues to inspect facilities to ensure compliance with the Cleanup and Abatement Orders and to verify the condition of the facility that will be closed. Staff continues to review monitoring reports required by Waste Discharge Requirements and technical reports that request rescission of groundwater monitoring requirements from recently issued Revised Monitoring and Reporting Programs.

Staff is preparing individual waste discharge requirements for a new project that will reuse produced wastewater for irrigation. In addition to the reuse of produced wastewater for irrigation, produced wastewater will be stored in four unlined reservoirs. Staff anticipates that the draft waste discharge requirements will be posted for public comment in October and presented to the Board for consideration in December 2018.

### **2. Spill Response**

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Board staff were notified of eight events in July and August:

- A spill of oil and wastewater emulsion occurred on the Hill Lease operated by Berry Petroleum Company LLC, in the South Belridge Oil Field on 17 July. Reportedly, a pipeline failure caused the discharge of approximately 25 barrels (bbls) of crude oil and wastewater emulsion into soil. Reportedly, the discharged fluids flowed onto developed production areas and entered a “crevice.” It appears that the reported affected crevice is a fragment of a dry stream bed altered by oil field development. Cleanup of the areas affected by the spill was reportedly completed by Patriot Environmental Services, and Staff reviewed pre- and post-cleanup photographs provided by Berry Petroleum Company LLC.
- A spill of crude oil and oil field produced wastewater occurred on the Rasmussen Lease operated by Chevron USA, Inc., in the Kern River Oil Field on 24 July 2018. Reportedly, a pipeline failure caused the discharge of approximately 5.5 bbls of crude oil and 73 bbls of oil field produced wastewater into soil. Reportedly, the discharged fluids affected production pads and relatively flat areas and no dry stream beds or natural drainages were affected by the spill. Reportedly, cleanup of the areas affected areas was completed.
- Reportedly, oil and sludge (oil) from a vacuum truck were dumped into a concrete pit (pit) on the Vedder Lease operated by California Resource Corporation (CRC), in the Mount Poso Oil Field sometime prior to 7 August. The incident was discovered by staff of the Division of Oil, Gas, and Geothermal Resources (Division) who notified Board staff of the presence of oil in a road-mix structure. CRC staff informed Board staff that the discharge was an accident and that the pit is not used for road-mix storage. CRC staff added that the sub-contractor who dumped the oil in the pit mistakenly thought that the pit was a proper place for dumping the oil. Board staff and staff of the California Department of Fish and Wildlife (CDFW) jointly inspected the incident site and documented post-cleanup conditions and measures taken by CRC to prevent this incident from recurring.
- A spill of crude oil and oil field produced wastewater occurred on the KCL 62 Lease operated by Crimson Resource Management, in the Rosedale Ranch Oil Field on 15 August. Reportedly, an unknown vehicle impacted an injection well wellhead which caused the discharge of approximately 1 to 2 bbls of crude oil and 15 to 20 bbls of produced wastewater into soil. Reportedly, the discharged fluids affected flat areas surrounding the wellhead and no fluids affected nearby cultivated areas. Reportedly, staff of the Kern County Environmental Health Department (KCEHD) inspected the spill site. Staff reviewed pre- and post-cleanup photographs provided by Crimson.
- A spill of crude oil and oil field produced wastewater occurred on the 2F Monarch Lease operated by Chevron USA, Inc., in the Midway Sunset Oil Field on 16 August. Reportedly, a pipeline leak caused the discharge of approximately 0.4 bbls of crude oil and 0.34 bbls of oil field produced wastewater into soil. Reportedly, the discharged fluids affected a dry creek bed. Reportedly, staff of CDFW inspected the spill site and will conduct a post-cleanup inspection once cleanup is complete. Staff of Chevron USA, Inc., will notify staff once cleanup of the affected areas is complete.
- A spill of crude oil occurred on the Tide Water Lease operated by Berry Petroleum Company LLC in the Midway Sunset Oil Field on 21 August. Reportedly, a mechanical failure and human error caused the discharge of approximately 9.5 bbls of crude oil into a secondary containment and a road. Reportedly, the discharged fluids did not move past the production pads. No natural drainages or dry stream beds were affected. Reportedly, the discharge has been stopped and Berry Petroleum Company LLC staff will provide post-cleanup photographs of the affected areas for staff review. The spill site was reportedly inspected by staff of the KCEHD and staff of the Division.
- A spill of oil field produced wastewater occurred on the Fairfield Lease operated by Berry Petroleum Company LLC in north Midway-Sunset Oil Field on 27 August. Reportedly, a booster

pump failure caused the discharge of approximately 5.5 bbls of oil field produced wastewater into soil. Reportedly, 3 bbls of the discharged fluids entered the Buena Vista Creek, which is a dry blue line stream bed. It was reported that no oil was discharged and no cleanup work will be conducted because there is no visible impact and no standing fluids within the affected areas. Reportedly, staff of the CDFW will inspect the spill site and assess potential impact.

- A spill of oil field produced wastewater occurred on the Berry and Ewing Lease operated by Berry Petroleum Company LLC in south Midway-Sunset Oil Field on 28 August. Reportedly, a pipeline leak caused the discharge of approximately 10 bbls of oil field produced wastewater into a dry creek bed. Reportedly, staff of CDFW and KCEHD inspected the spill site. Reportedly, cleanup of the affected areas was conducted and Staff reviewed pre- and post-cleanup photographs provided by Berry Petroleum Company LLC.

Staff will conduct appropriate follow-up activities and consider appropriate enforcement for the spills.

### **3. UIC Program**

During the period from 27 June through 31 August, staff of the Underground Injection Control Unit (UIC) had meetings with State Board staff, Division staff, and the Operator to discuss water supply wells in the Kern River Aquifer Exemption application package (Application). Subsequent to these discussions, staff provided potential supply well locations and available construction details for additionally identified wells to State Board.

Staff completed reviews and issued no objection letters for three UIC projects to the Division and Operators (Coalinga East, Cymric, and Kern Bluff Oil Fields). Staff additionally conducted initial reviews and submitted questions to the Division and Operators regarding four UIC projects submitted to the Division for injection into portions of the Round Mountain, Cymric, Midway-Sunset, and Five Points Oil Fields.

### **4. Senate Bill 4 (SB-4) Program**

Since the last Executive Officer's Report, staff have completed six SB4 Well Stimulation Treatment (WST) Application package reviews and submitted written comments to the State Water Board. One Application package was for the Aera Energy LLC, South Belridge Oil Field. Two Application packages were for the California Resources Elk Hills, LLC Buena Vista Nose Area. Two Application packages were for the Berry Petroleum, LLC, South Belridge Oil Field. Ten WST Application packages are under review.

Board staff completed six groundwater monitoring plan related reviews and submitted comments to the State Water Board: two are associated with California Resources Production Corporation's planned well stimulations in the Buena Vista Nose area; one was associated with California Resources Production Corporation "Rhythm Project area," about one-mile northwest of the North Shafter Oil Field; one was associated with California Resources Production Corporation's planned exploratory stimulation in the Lost Hills Oil Field; one was associated with Chevron U.S.A. Incorporated's expanded area in the Lost Hills Oil Field; and one was associated Berry Petroleum, LLC's planned well stimulations in the South Belridge Oil Field.

Staff reviewed Brietburn Operating L.P.'s request for a groundwater monitoring exclusion proposal at their Dow Chanselor Lease in the North and South Belridge Oil Fields; and, a monitoring well installation report that documents the installation of wells in Aera Energy LLC's Lost Hills Oil Field. Comments were conveyed to the State Water Board.

### **5. Food Safety**

In July, Staff hosted a public meeting of the Food Safety Expert Panel (Panel). During the meeting, Dr. Gary Banuelos of the United States Department of Agriculture gave a presentation on plant uptake of metals, and GSI Environmental Inc., gave an update on the Memorandum of Understanding Tasks.

During the meeting, staff also updated the public on the Food Safety web page including the Scopes of Work, Draft Crop Reports, and the updated constituent lists that were posted to the page in July.

In July and August, staff observed five crop sampling events. Carrots, potatoes, tomatoes, apples, almonds, and grapes were sampled in areas that receive produced water and from control areas. Crop samples were obtained by staff and shipped to Weck Laboratories. Reports on the sampled crops are being prepared by GSI Environmental Inc.

In August, staff continued to compile a list of constituents from additives reported in 13267.5 Order submittals. Reports from suppliers of additives (suppliers) were due in February and June of 2018. Staff has been working with suppliers to get late reports submitted.

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

### **Quarterly Stakeholder Meetings**

Central Valley Water Board staff holds quarterly 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 July 11<sup>th</sup> meeting, held in Merced, focused on the new drinking water well monitoring requirements for nitrates. Christine Sotelo, the chief of the Environmental Laboratory Accreditation Program, spoke about her program and how laboratories can prepare for the new drinking water well monitoring requirements. More information regarding the stakeholder meetings can be found on the Central Valley Water Board ILRP website:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_land/regulatory\\_information/stakeholder\\_advisory\\_workgroup/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_land/regulatory_information/stakeholder_advisory_workgroup/index.shtml)

### **Waste Discharge Requirements (WDRs) Development**

#### **State Water Board's Proposed Order Issued in Response to Petitions on Eastern San Joaquin Agricultural Waste Discharge Requirements**

On 7 February 2018, the State Water Board adopted a precedential order responding to petitions of General Order No. R5-2012-0116 for growers within the Eastern San Joaquin River Watershed (SWRCB/OCC Files A-2239(a)-(c)). The State Water Board Order changed the East San Joaquin General Order, adding new requirements which included the following:

- on-farm drinking water well monitoring for growers starting in 2019,
- development of numeric targets to assess nitrogen loading to groundwater,
- anonymous field-level reporting of management practices to the Central Valley Water Board, and
- an external public review process for the surface water monitoring framework.

Some elements are precedential and are required to be incorporated in ILRPs statewide within the next 5 years. Staff plans to release draft updated ILRP general orders in October for public comment and are working implementation of the new elements within the East San Joaquin River watershed. An information item on these efforts is planned for the December Board meeting.

More information regarding the State Water Board Order can be found at the following web page:  
[http://www.swrcb.ca.gov/public\\_notices/petitions/water\\_quality/a2239\\_sanjoaquin\\_ag.shtml](http://www.swrcb.ca.gov/public_notices/petitions/water_quality/a2239_sanjoaquin_ag.shtml)

## ILRP Compliance, Outreach & Enforcement

### **Agricultural Parcel Inspections**

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

<b>Coalition Area</b>	<b>Parcel Inspections Jul 1 – Aug 31</b>
Kaweah Basin	33
<b>Total</b>	<b>33</b>

### **On-Farm Inspections for General Order Compliance**

The purpose of on-farm inspections is for Board staff to visit coalition-enrolled farms and discuss water quality-related issues with growers. These inspections include staff review of the farm evaluations, nitrogen management plans and sediment and erosion control plans; and inspection of site conditions, including potential discharge points to surface waters, pollution management practices, chemical storage and handling areas, and wellhead protection practices.

<b>Coalition Area</b>	<b>On Farm Inspections Jul 1 – Aug 31</b>
East San Joaquin, San Joaquin Co & Delta, Sacramento Valley, & Western San Joaquin River	0
Westlands	1
<b>Total</b>	<b>1</b>

### **Water Code Section 13260 Directives**

Staff has added an additional step in the outreach process to growers. Staff now sends an outreach letter after parcel inspections and prior to the issuance of directives. These directives are sent to owners of commercial irrigated lands identified through staff inspections of agricultural-zoned parcels who don't respond adequately to outreach letters. The recipients are required to submit a Notice of Intent to obtain either group or individual regulatory coverage within 15 days of receipt of the directive. Coalition areas not shown had no directives mailed during the reporting period.

<b>Coalition Area</b>	<b>Directives Mailed Jul 1 – Aug 31</b>
East San Joaquin, San Joaquin Co & Delta, Sacramento Valley, & Western San Joaquin River	92
Kaweah Basin	13
<b>Total</b>	<b>105</b>

### **Notices of Violation for Failure to Submit Farm Evaluations**

Between 1 July 2018 and 31 August 2018, Notices of Violation (NOVs) were sent to 61 Coalition members within the Tulare Lake Basin Area for their failure to submit Farm Evaluations by the Board-approved deadline of 1 March 2018. The NOVs urge the members to promptly provide their evaluations to the Coalition or potentially face monetary penalties. Response results for the NOVs are pending.

### **Notices of Violation for Failure to Submit Nitrogen Management Plan Summary Reports**

Between 1 July 2018 and 31 August 2018, Notices of Violation (NOVs) were sent to 205 coalition members within the Tulare Lake Basin Area for their failure to submit Nitrogen Management Plan summary reports by the Board-approved deadline of 1 March 2018. The NOVs require the members to provide summary reports to their respective coalition or potentially face monetary penalties.

## Coalition Enrollment Summary

The tables below provide the latest coalition enrollment data based on coalition member lists submitted annually to comply with the ILRP General Order requirements, subsequent voluntary updates to member lists, and Central Valley Water Board staff identified additional enrollment data. The ILRP General Orders require coalitions to provide enrollment data each July, and Water Board staff requests a voluntary update in December to ensure accurate information for annual billing. Executive Officer Reports produced in months when coalitions are not required to provide member and participant information are updated using Water Board staff enrollment information.

<b>Table 1 of 2. Coalition Enrollment Information Summary in the Sacramento, Delta, East and Western San Joaquin River Watersheds*</b>							
<b>Coalition Group</b>	<b>CA Rice* Comm.</b>	<b>East San Joaquin</b>	<b>Grasslands Drainage Area</b>	<b>Sacramento Valley</b>	<b>San Joaquin Co. &amp; Delta</b>	<b>Western San Joaquin R.</b>	<b>Totals</b>
<b>Participating Growers</b>							
Number of Growers, Pre-Order	2,500	2,225	N/A	7,888	3,256	2,450	18,319
Number of Growers, Participant List (2018)*	2,500	3,336	98	7,982	3,458	1,893	19,267
Number of Growers Enrolling Land Due to Directive/eNOI (Jul 7, 2018 – Aug 29, 2018)***		3		13	1		17
<b>Enrolled Acreage</b>							
Number of Acres, Pre-Order	544,468	535,653	N/A	1,183,491	348,200	467,625	3,079,437
Number of Acres, Participant List (2018)*	436,000****	700,099	83,693	1,319,710	512,036	423,216	3,474,755
Number of Acres, Annual Fees (2017-2018)**	436,000****	705,683	83,913	1,332,327	516,357	432,505	3,506,785
Number of Acres added due to Directive/eNOI (Jul 7, 2018 – Aug 29, 2018)***		73		582	7		662

\* Grower participant lists are updated yearly by the Coalition Group on 31 July. Staff calculates the number of acres and participants based on data provided in the participant lists.

\*\* Grower annual fees are submitted yearly by the Coalition Group in Jan-Feb for the fiscal year. Annual Fees only report irrigated acres and do not report participants.

\*\*\* Growers and acres calculated by staff on 29 August 2018.

\*\*\*\*Per the Order, the CA Rice Commission is not required to submit a participant list and the acreages are updated annually for fees. Annual fees for are generated through USDA/NASS harvested rice acreages.

<b>Table 2 of 2. Coalition Enrollment Information Summary for the Tulare Lake and Western Tulare Lake Basins</b>									
Coalition Group	Buena Vista	Cawelo	Kaweah Basin	Kern River	Kings River	Tule Basin	Westside	Westlands	Total
<b>Participating Growers</b>									
Number of Growers, Pre-Order	3,794 (Southern San Joaquin Water Quality Coalition)							1,070	4,864
Number of Growers, Current Participant List (2018)*	56	88	1,242	755	4,223	967	43	1,215	8,589
Number of Growers Enrolling Land Due to Directive/eNOI (Jul 7, 2018 – Aug 28, 2018)***			2	1	3				6
<b>Enrolled Acreage</b>									
Number of Acres, Pre-Order	957,362 (Southern San Joaquin Water Quality Coalition)							507,489	1,464,851
Number of Acres, Current Participant List (2018)*	33,383	34,454	160,380	528,340	779,978	259,563	106,079	492,072	2,394,249
Number of Acres, Previous Annual Fees (2018)**	34,090	33,818	158,842	528,687	761,479	224,596	98,136	487,526	2,327,174
Number of Acres added due to Directive/eNOI (Jul 7, 2018 – Aug 28, 2018)***			249	3,038	172				3,459

\* Grower participant lists are updated yearly by the Coalition Group on 31 July.

\*\* Grower annual fees are submitted yearly by the Coalition Group in Jan-Feb for the fiscal year. Annual Fees only report irrigated acres and do not report participants.

\*\*\* Growers and acres calculated by staff on 28 August 2018

## **Sacramento River Watershed Coalition Groups**

### **California Rice Commission**

Surface water monitoring for the 2018 sampling season concluded on 2 July 2018. The monitoring results will be reported in the 2018 Annual Monitoring Report due on 31 December 2018. Sacramento Valley Water Quality Coalition

On 1 May, the Coalition submitted the 2017 Annual Monitoring Report Package which includes the Annual Monitoring Report, Management Plan Progress Report, and Farm Evaluation Summary Report for the 2017 crop year. Staff provided informal comments to the Coalition on 14 June. The Coalition submitted a revised report to address staff's comments on 21 August. The revised report is currently under staff review.

On 1 June, the Coalition submitted the Nitrogen Management Plan Summary Report Analysis for the 2017 Crop Year. The Executive Officer approved the analysis on 25 July.

On 6 July, the Executive Officer sent a review letter with an enclosed staff review memo in response to the Coalition's Phase II Groundwater Trend Monitoring Workplan (GQTMP). The letter requires a final list of wells completed in the Upper Groundwater Zone that the Coalition has permission to sample in Fall 2018. The letter also requires: a revised GQTMP that meets all deficiencies noted in the Staff Review Memo, Geotracker data submittal, and AMR data submittal.

On 1 August, the Coalition submitted the Monitoring Plan for Water Year 2019. Water Year 2019 runs from 1 October 2018 through 30 September 2019. The plan is currently under staff review.

### ***Placer-Nevada-South Sutter-North Sacramento Subwatershed Group***

On 31 July 2018, the Placer-Nevada-South Sutter-North Sacramento Subwatershed Group (PNSSNS) submitted a request to extend the due date of their amended application to serve as a third-party group under General Order R5-2014-0030. On 21 August 2018, the Executive Officer approved the extension to 31 December 2018.

## **San Joaquin River Watershed Coalition Groups**

### **East San Joaquin Water Quality Coalition**

On 29 June, staff's review of the 2018 Annual Monitoring and Management Plan Progress Reports, covering the period 1 October 2016 through 30 September 2017, was provided to the Coalition. The Coalition complied with all MRP Order monitoring and reporting requirements.

On 11 July, the Coalition submitted a request to apply the SWAMP two-tiered approach for *Selenastrum capricornutum* and *Pimephales promelas* toxicity evaluation. The request is currently under staff review.

On 19 July, the Coalition submitted a request to exchange the Zone 2 Core site, Prairie Flower Drain @ Crows Landing Rd, with Westport Drain @ Vivian Rd and monitor Prairie Flower Drain @ Crows Landing Rd as a Represented site for the 2019 WY. The rationale for the site exchange request is currently under staff review.

On 1 August, the Coalition submitted the 2019 water year Monitoring Plan Update report, including an excel workbook of the monitoring schedule and the Pesticide Evaluation Protocol Results. The report is currently under staff review.

### **San Joaquin County and Delta Water Quality Coalition**

On 23 July, the Coalition brought to staff's attention that its laboratory could not meet the required 200 mg/kg Reporting Limit for Total Organic Carbon in sediment. Staff is in discussions with the Coalition regarding whether a higher Reporting Limit is appropriate.

On 1 August, the SJD Coalition submitted its annual 2018 Monitoring Plan Update by the Order's deadline. The Monitoring Plan Update proposes the water quality monitoring schedule for the period between October 2018 and September 2019. It is under staff review.

On 13 August, staff completed its review of the SJD Coalition's Annual Monitoring Report and Management Plan Progress report covering the period October 2016 through September 2017. The Coalition is complying with the Order requirements. The Nitrogen Management Plan Summary section of the AMR will be reviewed under a separate cover.

### **Westside San Joaquin River Watershed Coalition**

On 31 July, the Coalition submitted a Nutrient Surface Water Management Plan. Staff review will begin soon.

On 31 July, the Coalition submitted a request to change the method used to determine whether a sample is considered toxic. Staff review will begin soon.

On 7 August, the Executive Officer approved the Coalition's Comprehensive Surface Water Quality Management Plan, Pesticides and Aquatic Toxicity Management Plan, and Sediment Toxicity Management Plan. Implementation of these plans is currently underway.

On 15 August, the Coalition submitted a Groundwater Quality Trend Monitoring Work Plan addendum. The addendum provides the list of wells that have approval for sampling in Fall 2018. It is currently under staff review.

### **Grassland Drainage Area Coalition**

On 29 June, board staff completed a review of the Grassland Drainage Area Coalition's Groundwater Quality Trend Monitoring Work Plan. Well selection and missing well details are needed before the trend monitoring well network can be considered complete. An addendum to the Work Plan was submitted on 15 Aug 2018 and is currently under staff review. Trend Monitoring sampling efforts are anticipated for fall 2018.

### **Tulare Lake Basin Coalition Groups**

#### **Cawelo Water District Coalition**

On 29 June, board staff completed a review of the Cawelo Water District Coalition's Groundwater Quality Trend Monitoring Work Plan, resulting in a conditional approval of the Work Plan. Groundwater trend monitoring sampling efforts will begin by fall 2018.

#### **Kaweah Basin Water Quality Association**

On 31 July, board staff completed a review of the Kaweah Basin Water Quality Association's Groundwater Quality Trend Monitoring Work Plan Phase II Addendum. The Phase II Addendum provided sufficient response to changes requested in the previous staff review but WDR required well information was provided for only 14 of 24 primary monitoring wells. The missing well information is required by 30 September. Groundwater trend monitoring sampling is on schedule to begin late fall 2018.

### **Kern River Watershed Coalition Authority**

On 31 July, the Kern River Watershed Coalition Authority submitted the Pesticide Evaluation Protocol Proposal – 2018 Update. The pesticide monitoring proposal identifies the constituents and schedule for monitoring from 1 October 2018 through 30 September 2019. The proposal was approved on 24 August.

### **Kings River Watershed Coalition Authority**

On 31 July, board staff completed a review of the Kings River Water Quality Coalition's Groundwater Quality Trend Monitoring Work Plan July Update. WDR required information was provided for 60 wells and staff found concerns with locations and application of a number of the 60 wells. Missing well information for the network, as well as evaluation of the effectiveness of a number of wells is required by 31 August 2018. Groundwater trend monitoring sampling efforts are anticipated for fall 2018.

### **Westlands Water Quality Coalition**

On 1 August, the Westlands Water Quality Coalition submitted the Monitoring Plan Update for the 2019 Water Year. The Monitoring Plan Update identifies the constituents and schedule for monitoring of pesticides and metals in surface water from 1 October 2018 through 30 September 2019. The Monitoring Plan Update is currently under staff review.

### **Growers Under the Individual Discharger General Order**

On 11 May 2018, the Assistant Executive Officer sent a Notice of Violation (NOV) to Tony & Joye Inzana, Inzana Ranch and Produce, Inc., for failure to submit their Farm Water Quality Plan and Nitrogen Management Plan. Communications with Mr. Inzana revealed a problem with delivery of the NOV. The missing reports were received on July 2nd. On July 18<sup>th</sup>, an NOV was issued to Inzana Ranch and Produce, Inc., for failure to submit a complete Farm Water Quality Plan including a Nitrogen Management Plan (Plans). The NOV required the discharger to submit Plans that meet all requirements of the Individual Order within 30 days. On 24 August 2018, a second Notice of Violation for failure to submit a complete Farm Water Quality Plan, including a Nitrogen Management Plan, was issued to Inzana Ranch and Produce, Inc.

### **Other Projects**

#### **Data Management**

The Data Management Team (DMT) has submitted all current and backlogged data deliverables to SWAMP. The DMT continues to monitor SWAMP's loading progress. Once the EDDs are loaded, the DMT will conduct a final quality check and request SWAMP to push the EDDs to CEDEN. The DMT continues to route water quality monitoring data through SWAMP for transfer to CEDEN and is current with its CEDEN loads. CEDEN transfers occur approximately once per month. After ILRP staff performs a completeness check, SWAMP staff loads the monitoring data to CEDEN. Three coalitions send its data directly to the CVRDC for transfer to CEDEN in May each year. Processed ILRP data notes the available data date ranges in the table below. Staff will continue to report on this effort.

Available Data for Each Coalition in CEDEN	Date Range
California Rice Commission	Jul 2004 - Jul 2016
Westside San Joaquin River Water Quality Coalition	Sep 2008 - Aug 2017
Sacramento Valley Water Quality Coalition	Jul 2004 - Jun 2017
Grasslands Bypass Project	Oct 1995 - Dec 2016
East San Joaquin Water Quality Coalition	Jul 2004 - Sep 2017
San Joaquin County and Delta Water Quality Coalition	Aug 2004 - Sep 2017
Westlands Storm Water Coalition	Nov 2008 - May 2017

## Grassland Bypass Project

On 26 April 2018, the San Luis & Delta Mendota Water Authority submitted the Annual Monitoring Report for the Grassland Bypass Project. The report was approved on 31 August 2018.

## Norman's Nursery

On 9 July 2018, staff provided review comments on Part 2 of the Norman's Nursery Linden Site-Specific Management Plan. A joint meeting was held on 26 July to discuss the comments. The Discharger expects to submit a revised Management Plan by 4 September 2018. Norman's Nursery Linden and the SJ Delta Coalition are jointly developing a Management Plan to address surface water and groundwater nitrate exceedances observed during 20 years of monitoring under MRP 97-811.

## Rice Pesticides Program

Thiobencarb monitoring for the 2018 sampling season concluded on 3 July 2018. The results of monitoring will be reported in the 2018 Annual Monitoring Report due on 31 December 2018.

## CANNABIS PROGRAM

### Cannabis General Order Enrollment and Developments

Approximately 718 cannabis cultivators had coverage under General Order No. R5-2015-0113 (Regional General Order) when the Statewide General Order went into effect on January 1, 2018. Staff have received, to date, 41 transfer applications to the new Statewide General Order, and have reviewed and approved 39 of those applications. Due to changes in county policies regarding cannabis cultivation, 240 termination requests have been received, and 120 of those have been reviewed and approved. Table 1 provides a summary of the active enrollments to date in the Regional General Order.

Table 1

County	Tier 1 Enrollment	Tier 2 Enrollment	Tier 3 Enrollment	Total Active Enrollments
Calaveras	165	221	54	440
Yolo	19	29	13	61
Lake	31	23	2	56
Nevada	13	1	-	14
Sierra	4	1	-	5
Plumas	1	-	-	2
Mariposa	1	-	-	1
<b>Total</b>	<b>234</b>	<b>275</b>	<b>69</b>	<b>578</b>

Staff have been actively reviewing and processing enrollments under the Statewide General Order and are continually providing outreach to ensure Regional General Order enrollees transition to the Statewide General Order in a timely manner. Staff have also begun to reach out to enrollees to ensure required reporting is submitted prior to the 90-day post application due date. To date staff have received approximately 246 Statewide General Order applications and have approved and enrolled approximately 164 dischargers under the Statewide General Order. Table 2 provides a summary of the Statewide General Order enrollments in the Central Valley Region to date.

Table 2

County	CE*	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	1	4	-	-	1	1	-	7
Lake	2	30	1	-	26	1	-	60
Nevada	2	20	-	-	-	-	-	22
Sacramento	34	-	-	-	-	-	-	34
Shasta	2	-	-	-	-	-	-	2
Siskiyou	2	-	-	-	-	-	-	2
Solano	1	-	-	-	-	-	-	1
Stanislaus	3	4	-	-	-	-	-	7
Yuba	1	-	-	-	-	-	-	1
Yolo	-	6	-	-	22	-	-	28
<b>Total</b>	<b>38</b>	<b>64</b>	<b>1</b>	<b>0</b>	<b>49</b>	<b>2</b>	<b>0</b>	<b>164</b>

\*CE: Conditionally exempt, enrolled in the Statewide Cannabis Waiver of Waste Discharge Requirements.

## Outreach

On June 20, 2018, staff presented to the Tuolumne-Stanislaus Integrated Regional Water Management Authority. The presentation gave a background of the Water Boards cannabis program, overview of the permitting process and enforcement processes, and a discussion on the potential water quality impacts and environmental issues associated with cannabis cultivation.

On June 22, 2018, staff attended the Klamath Cascade Regional meeting on the California Natural and Working Lands Climate Change Implementation Strategy. Staff learned about the importance of natural and working lands to California's climate response strategy, and discussed with participants how the California cannabis industry might fit into the Scoping Plan.

## Compliance and Enforcement

### Compliance

On June 15, 2018, staff performed a follow up compliance inspection at an enrolled cannabis site in Yolo County in coordination with the California Department of Fish and Wildlife.

On June 29, 2018, staff performed two inspections at enrolled sites in Yolo County alongside County officials and the California Department of Fish and Wildlife.

On August 20, 2018, staff performed two permit compliance inspections at enrolled cannabis sites in Lake County.

On August 27, 2018, staff performed three permit compliance inspections at enrolled cannabis sites in Lake County.

### Enforcement

On July 8-13, 2018, staff participated in a multi-agency task force performing enforcement operations. The other agencies involved were Division of Water Rights, Office of Enforcement, California Department of Fish and Wildlife, Cal Fire, CHP, Calaveras County Sherriff, and Yuba County Sherriff. A total of 27 sites were inspected, 12 in Calaveras County and 15 in Yuba County.

## Central Valley Water Board County Status: Cannabis Cultivation Ordinances Sept. 2018



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

### **Clear Lake Nutrient Control Program Update**

A Board workshop was held in Lake County on July 18, 2018 to review staff's implementation status technical memo and to discuss stakeholder questions and concerns about the implementation status of the control program. Local tribes/organizations also presented on the status of monitoring efforts and projects, such as the Middle Creek Restoration Project. Presenters included Big Valley Rancheria and Indian Elem Colony of Pomo Indians, Lake County Department of Water Resources, Middle Creek Restoration Coalition, and Lake County Farm Bureau. The workshop consisted of an on-site discussion and formal workshop. In addition to the workshop, staff created education materials to address stakeholder concerns following the August 2017 public outreach meeting that have been posted to the Central Valley Water Board's Clear Lake Nutrient TMDL webpage.

Staff also released a technical memo with an update on the implementation status for the Clear Lake Nutrient Control Program. The memo provides a detailed overview of each responsible party's progress in attaining compliance with their load allocations.

More information about the Clear Lake Nutrient Control Program (including the technical memo, a summary of the Board workshop, a recording of the formal afternoon meeting, and meeting materials) can be found at:

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

## **CYANOBACTERIA BLOOMS UPDATE**

### **Pre-Holiday Assessment**

The Central Valley Water Board, in coordination with the CCHAB Network, is developing a pre-Labor Day HABs assessment to help communicate HAB conditions at some of the State's popular recreational waterbodies. The CCHAB Network will be compiling the collected information into an [interactive map](#) with data. The map will show targeted sampling locations and recommended advisory levels for assessed waterbodies statewide.

### **Central Valley Bloom Notifications and Response – 2018 Summary**

Numerous reports of suspected cyanobacteria blooms have been reported in the Central Valley. Many of these cases are generated from citizen complaints while others are either reported from monitoring programs (e.g., Clear Lake) or from field staff of other state agencies (e.g., California Department of Water Resources). Table 1 provides an overview of all 2018 bloom response activity.

**Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2018**

Count	Month	Report Name (Report ID)	Status	Cyanobacteria ( <i>Genera</i> ) Identified?	Site Previously Reported in 2016/2017 <sup>1</sup> ?	Toxin Detected	Human Illness (reported)	Wildlife Impacts (reported)
1	January	Clear Lake (IDs 1708-1721)	Monitoring program	Pseudanabaena and other filamentous cyanos	Yes	Microcystin	No	No
2	February	Discovery Bay	Completed	Not sampled	Yes	Not tested	No	No
3	February	Clear Lake (IDs 1708-1721)	Monitoring program	Pseudanabaena and other filamentous cyanos	Yes	Microcystin	No	No
4	February	Highway 162 and Leesville Rd & Hwy 20	Completed; not cyanobacteria	Not sampled	No	Not tested	No	No
5	February	Copps Quarry	Completed	Not sampled	No	Not tested	No	No
6	March	Clear Lake (IDs 1708-1721)	Monitoring program	Pseudanabaena and other filamentous cyanos	Yes	None	No	No
7	March	Discovery Park, Sac/Amer. River (ID 1722)	Completed; not cyanobacteria	Not sampled	No	Not tested	No	No
8	April	Clear Lake (IDs 1708-1721)	Monitoring program	Dolichospermum sp.	Yes	None	No	No
9	April	Clear Lake Hwy 20 (ID 1724)	Completed	Dolichospermum sp.	Yes	Not tested	No	No
10	April	Borax Lake (Lake County)	Completed	Anabaena sp., Phormidium sp., Nodularia sp., Spirulina sp., Oscillatoria or Lyngbya sp.	No	Not tested	No	No
11	April	Lake Berryessa (ID 1725)	Completed	Aphanizomenon sp.	Yes	No	No	No
12	April	North Davis Ditch - City of Davis (ID 1726)	Completed; no bloom	Phormidium sp., Anabaena sp.	No	No	No	Yes
13	May	San Luis Reservoir Basalt Boat Launch (ID 1738)	Monitoring program	Microcystis sp., Aphanizomenon sp., Dolichospermum sp.	Yes <sup>2</sup>	Microcystin	No	No
14	May	O'Neill Forebay Gianelli Pumping Plant (ID 1739)	Monitoring program	Dolichospermum sp.	Yes <sup>2</sup>	Microcystin	No	No

**Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2018**

15	May	O'Neill Forebay Outlet (Check 13) (ID 1740)	Monitoring program	Oscillatoria sp., Aphanizomenon sp.	Yes <sup>2</sup>	Microcystin	No	No
16	May	Brentwood Golf Course (ID 1742)	Completed	Not sampled	No	Not tested	No	No
17	June	Clear Lake (ID1708-1721, 1761-1766)	Monitoring program	Dolichospermum sp.	Yes	None	No	No
18	June	Discovery Bay Driftwood Bay (ID 1743)	Closed	Microcystis	Yes	Not tested	No	No
19	June	North Fork Lake Oroville (ID 1749)	Open	Dolichospermum sp. Aphanizomenon sp.	Not the North Fork	Microcystin	No	No
20	June	Pine Flat Lake (ID 1751)	Completed	Dolichospermum sp.	No	None	No	No
21	June	Victoria Canal at water quality station (ID 1752)	WR Visual Monitoring Program	Microcystis sp.	No	Not tested	No	No
22	June	Old River at Clifton Court Intake (1753)	WR Visual Monitoring Program	Microcystis sp., Aphanizomenon sp.	No	Not tested	No	No
23	June	Old River Confluence of West Canal (ID 1754)	WR Visual Monitoring Program	Microcystis sp., Aphanizomenon sp.	No	Not tested	No	No
24	June	Grant Line Canal at Old River Confluence (ID 1755)	WR Visual Monitoring Program	Microcystis sp., Aphanizomenon sp.	Yes	Not tested	No	No
25	June	Old River at Mountain House (ID 1756)	WR Visual Monitoring Program	Aphanizomenon sp.	Yes	Not tested	No	No
26	June	Old River Downstream of Barrier near Tracy (ID1757)	WR Visual Monitoring Program	Aphanizomenon sp.	Yes	Not tested	No	No
27	June	Lake Oroville Middle Fork (ID 1770)	Completed	Dolichospermum sp. Aphanizomenon sp.	Yes	None	No	No
28	June	Arcade Lake (ID 1772)	Completed; not cyanobacteria	N/A	No	Not tested Not tested	No	No
29	June	Middle River near Holt, Turner Cut near Holt (ID1775)	WR Visual Monitoring Program	Microcystis sp., Aphanizomenon sp.	No	Not tested	No	No

ID	Month	Location	Status	Species	Detected	Microcystin	Anatoxin-a	Other
30	June	Big Break Regional Shoreline (ID 1777)	Completed	Microcystis sp.	Yes	Microcystin	No	No
31	June	Lake Isabella (ID 1779-1781)	Completed	Microcystis sp., Dolichospermum sp.	Yes	Microcystin Anatoxin-a	No	No
32	June	Lake Webb (ID1794)	Completed	Cylindrospermopsis sp., Microcystis sp., Anabaenopsis sp.	No	None	No	No
33	June	Lake Evans (ID 1795)	Completed	None observed in sample	No	Anatoxin-a	No	No
34	June	Hensley Lake (1793)	Completed	Woronichinia sp., Microcystis sp., Lyngbya sp, Dolichospermum sp.	No	Microcystin Anatoxin-a	No	No
35	June	H.V. Eastman Lake (ID 1792)	Completed	None observed in sample	No	Microcystin	No	No
36	June	Lake Almanor north arm (ID 1782)	Completed	Aphanizomenon sp., Gloeotrichia sp., Anabaena sp.	No	Not tested	No	No
37	June	Warrior Lake	Completed	N/A	No	Not tested	No	Yes
38	June	Buckley Cove Stockton Sailing Club	Completed	Microcystis sp.	Yes	Not tested	No	No
39	June	Middle River at Victoria Canal Confluence near Union Point (ID 1785)	DWR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
40	June	Middle River downstream of South Tracy Blvd. (ID 1786)	DWR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
41	July	Wrights Lake (ID 1795)	Closed	None	No	No	Yes	No
42	July	Three Mile Slough near San Joaquin River (ID 1798)	DWR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
43	July	False River near Oakley (ID 1799)	DWR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
44	July	Fisherman's Cut (ID 1800)	DWR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
45	July	Old River near Franks Tract Terminous (ID 1801)	DWR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No

**Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2018**

46	July	Discovery Bay(Multiple locations) (ID 1802 and 1805)	Open	Microcystis, Dolichospermum	Yes	Microcystin	No	No
47	July	Old River upstream of Clifton Court Forebay Intake (ID 1806)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
48	July	Lake Oroville South Fork (ID 1815)	R Monitoring Program	Not evaluated by DWR	Yes	No	No	No
49	July	San Joaquin River above Dos Reis (ID 1816)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
50	July	Old River at Head of Old River (ID 1817)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
51	July	Old River near Doughty Cut (ID 1818)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
52	July	Grant Line Canal at East of Temporary Barrier (ID 1819)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
53	July	Doughty Cut above Grant Line Canal, near Old River (ID 1820)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
54	July	Grant Line Canal at Tracy Blvd Bridge (ID 1821)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
55	July	Middle River near upstream of West Undine Road (ID 1822)	WR Visual Monitoring Program	Microcystis	Not specifically	Not tested	No	No
56	July	Lake Berryessa near Pope Creek (ID 1823)	Closed	N/A	Not this area of Lake Berryessa	N/A	Yes	No
57	July	White Pines Lake (ID 1824)	Closed	Geitlerinema or Pseudanabaena	No	Not tested	Yes	No
58	July	Mokelumne River near San Joaquin River (ID 1826)	DWR Visual Monitoring Program	Microcystis	Not specifically	No	No	No

ID	Month	Location	Assessment Status	Species	2016/2017 Bloom	2018 Bloom	2019 Bloom	2020 Bloom
59	July	Sacramento River near Freeport (ID 1833)	Closed	None	No	No	No	No
60	August	San Joaquin River at Tinsley Island near St. Francis Marina (ID 1835)	Pre-Labor Day Assessment	Microcystis	No	No	No	No
61	August	Sacramento River at Port of West Sacramento (ID 1843)	Closed	Dolichospermum	No	Not Tested	No	No
62	August	San Joaquin River at Stockton Waterfront Morelli Boat Launch	Pre-Labor Day Assessment	Microcystis, Dolichospermum, and Pseudanabaena	Yes	Microcystin	No	No
63	August	Mokelumne River Willow Berm Marina	Pre-Labor Day Assessment	Microcystis	Not specifically	No	No	No
64	August	Franks Tract North Channel	Pre-Labor Day Assessment	Microcystis and Dolichospermum	Not specifically	No	No	No
65	August	Franks Tract West Channel	Pre-Labor Day Assessment	Microcystis	Not specifically	No	No	No
66	August	Middle River, near Connection Slough	Pre-Labor Day Assessment	Microcystis and Aphanocapsa	Not specifically	No	No	No
67	August	Lake Berryessa several locations	Pre-Labor Day Assessment	Oscillatoria, Aphanizomenon,	Yes	Cylindrosp ermopsin, Anatoxin-a	No	No
68	August	South Yuba River at Edwards Crossing Bridge	Under Investigation		No	N/A	Yes	No
69	August	Lake Shasta	Under Investigation		Yes	N/A	No	No

<sup>1</sup> The 'site previously reported in 2016/2017' column only identifies if the site had a reported bloom in 2016 and 2017. This is not meant to imply that a bloom did not occur there in 2016/2017 or previous years. It only indicates whether a suspected or confirmed bloom was reported to the Water Boards during that year.

<sup>2</sup> These sites are being regularly monitored as part of the State Water Project.

## GRANTS

### **Clean Water Act §319(h) Nonpoint Source Grant Solicitation:**

Approximately \$4 million was available for the 2018 solicitation through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. The Central Valley Water Board received one grant, the Sacramento-San Joaquin Delta Conservancy's Implementation of BMPs in the Delta: A Comprehensive Pesticide Management Project to Improve Water Quality proposal was selected for funding. The Water Board NPS Program is currently working on guidelines for the 2019 solicitation, which will be released later this year.

For more information, please visit the NPS website:

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

Clean Water Act §319(h) Nonpoint Source on-going grants:

**Implementation of Agricultural Best Management Practices (BMPs) in Alfalfa, Almonds, and Cotton that Aid in Restoration of the San Joaquin River Watershed (\$749,997)** – The Sustainable Cotton Project is engaging more farmers of alfalfa, cotton, almonds and more acres in the Lower San Joaquin River watershed to implement proven BMPs. This grant works to reduce or eliminate farmers' use of diazinon and chlorpyrifos and will address the chlorpyrifos and diazinon TMDL for this watershed. (end date 6/30/19)

**Eightmile Valley Sediment Reduction and Habitat Enhancement Project (\$749,992)** - The Bureau of Land Management will reduce the volume of sediment delivered to Clear Lake by realigning a severely eroded stream channel, establishing a prescriptive treatment for erosion control, installing grade control structures and engineering bank revetment using hardscape, bioengineering and revegetation. (end date TBD – project extension requested)

### **Timber Regulation and Forest Restoration Fund On-going Grants:**

**Ponderosa Way Road Assessment and Sediment Reduction Plan (Phase 1) (\$300,000)** - The Resource Conservation District of Tehama County will prepare an Action Plan to reduce sedimentation from two miles of Ponderosa Way and another eight miles of roads upslope and/or downslope of Ponderosa Way within the Battle Creek Watershed, implement one project to reduce sediment inputs to Battle Creek and prepare CEQA document for future road fixes. (Closing 4/30/2019)

**Ponderosa Way Road Assessment and Sediment Reduction Plan Phase II) (\$500,000)** - The Resource Conservation District of Tehama County will conduct a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). This project will result in a sediment reduction plan for the Project Area with one or more demonstration projects in the Project Area. (Closing 3/31/2020)

**Battle Creek Watershed Based Plan (\$492,438)** - The Battle Creek Watershed Conservancy will develop a Watershed-Based Plan and implement a sediment reduction demonstration project in the Battle Creek Watershed. (Closing 10/31/2018)

**Post-Fire Response to Forest Management (\$329,519)** - California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest. (Closing 05/31/2020)

**Roadside Fuel Reduction (\$370,000)** - Yuba County will construct 185 acres of shaded fuel breaks along 30 miles of roadways in the Yuba foothill state recreation area. This project will result in enhanced fire safety and prevent water quality degradation from wildfires. (Closing 4/30/2019)

**Battle Creek Watershed Road Sediment Reduction Program Phase 1 & 2 (\$406,350)** - The Western Shasta Resource Conservation District will prepare a prioritized erosion prevention plan to identify and reduce road-related sediment inputs to North Fork Battle Creek. The project will include a road assessment on approximately 23 miles of county roads, a training workshop to provide road crews with techniques to perform an effective implementation project along Rock Creek Road, and the preparation of CEQA documents. (Closing 9/30/2021)

**North Butte County Road Inventory and Improvement Project (\$375,000)** - The Resource Conservation District of Butte County will conduct a road inventory and prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), prepare a CEQA document, implement road upgrades along four (4) miles of Powellton Road within the Butte Creek watershed, and hold two public workshops.

**Deer Creek North Yuba River Watershed Assessment and Sediment Reduction Plan (\$255,100)** - The Tahoe National Forest will prepare an Action Plan to reduce sedimentation from native surface roads located within the Deer Creek and North Yuba watersheds, prepare a CEQA document, implement road upgrades within the Deer Creek watershed, and provide public outreach.

**American (\$757,000)** – The American River Conservancy is planning to thin approximately 200 acres of merchantable timber under a CAL FIRE Fire Prevention Pilot Project Exemption and associated road maintenance.

## GROUNDWATER STRATEGY

**Action 6.4.1 Develop a Salt and Nitrate Management Plan for the Central Valley.** The initiative is a collaborative stakeholder effort that includes the Central Valley Water Board as a stakeholder. CV-SALTS completed a Salt and Nitrate Management Plan in December 2016. The SNMP was discussed at a 9 March 2016 Board hearing, where the Board adopted a resolution to acknowledge receipt of the SNMP and directed Board staff to develop basin plan amendments to implement appropriate recommendations from the SNMP. Board staff and other CV- SALTS stakeholders are currently developing a proposed Basin Plan Amendment for a Central Valley Salt and Nitrate Control Program based on recommendations from the submitted SNMP and comments received from interested parties. A workshop to discuss the proposed Basin Plan Amendment was held on 19 January in Rancho Cordova. More details on CV- SALTS activities can be found in the Salinity and CV-SALTS section of this EO report.

The amendments were adopted by the Central Valley Water Board during their May 31 Board meeting. The amendments were transmitted to the State Water Board for their consideration. The State Board released the proposed amendments for public comment; that period ended on 13 August 2018. Region 5 staff is working with State Board staff to move the amendments through the process, with a hearing date tentatively expected for March 2019. If approved by the State Board, the amendments would be forwarded to the Office of Administrative Law (OAL), and US EPA for consideration. The groundwater portions of the amendments require State Water Board and OAL approval before they could go into effect. The surface water portions of the amendments require US EPA approval before those portions could go into effect.

Information is also available at: <http://cvosalinity.org/>

**Action 6.4.2 Implement consistent and scientifically sound groundwater quality monitoring program.** To implement this action a Groundwater Monitoring Advisory Workgroup (GMAW) composed of groundwater experts, which includes representatives from State and Regional Water Boards, USGS, academia, and private consultants was formed. The GMAW has identified several technical issues

related to groundwater monitoring. The volunteer GMAW is tasked with development of white papers for each of the technical issues. Two on-going efforts are working on related issues, a statewide committee is reviewing the Antidegradation Policy and guidance on its implementation with respects to groundwater, and CV-SALTS is looking at policy issues related to assimilative capacity. The results of these two efforts may impact the approach or guidance that would be outlined in the GMAW white papers. Therefore, to avoid duplication of efforts, staff is engaged with both. Discussions are taking place to determine how best to coordinate the GMAW and CV-SALTS Technical Advisory Committee.

GMAW meeting information can be found at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/groundwater\\_quality/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml)

Information on the State Water Resources Control Board review of the Antidegradation Policy application to Groundwater can be found at: [http://www.waterboards.ca.gov/plans\\_policies/antidegradation.shtml](http://www.waterboards.ca.gov/plans_policies/antidegradation.shtml)

**Action 6.4.3 Implement Groundwater Quality Protection Programs through the Integrated Regional Water Management Plan Groups.** The goal of this action is to leverage and expand groundwater quality program coverage through improved coordination and partnering with local regional groups that receive State funds through the Integrated Regional Water Management (IRWM) process. Efforts continue to encourage Regional Water Management Groups outreach to Disadvantaged Communities. Education on Supplemental Environmental Project funding sources that may be available for IRWM plan projects, specifically those that benefit disadvantaged communities, continues with the distribution of a factsheet that is available at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/enforcement/sep\\_apr2015\\_fact\\_sheet.pdf](http://www.waterboards.ca.gov/centralvalley/water_issues/enforcement/sep_apr2015_fact_sheet.pdf)

On-going staff participation in IRWM groups (or Regional Water Management Groups) is included under the Public Outreach section of this EO report.

**Action 6.4.5 Well Design and Destruction (Abandonment) Program.** Staff has reviewed and evaluated county well ordinances. Personnel at county agencies (health departments) have been contacted to determine the specific methods currently used to oversee and enforce well standards. Staff has completed a draft report, currently under management review, that summarizes those tools and methods of well standards enforcement and addresses potential issues with some of the current well standards.

**Action 6.5.1(b) Develop General Order for Poultry, Cattle, or Other Confined Animal Facilities.**

The goal of this action is to protect groundwater from waste associated with the operation of confined animal facilities including poultry raising and egg laying facilities, bovine feedlots (heifer ranches, beef cattle yards, etc.), and other types of confined animal facilities not covered by the Dairy General Order. A General Order for poultry facilities was considered and adopted by the Central Valley Water Board at its December 2016 meeting. A General Order for Confined Bovine Feeding Operations was considered and adopted by the Central Valley Water Board at its June 2017 meeting. Approximately 200 poultry facilities have submitted Notices of Intent to comply with the Poultry General Order. The deadline to submit a Notice of Intent for the Bovine Feedlot Order was July 1, 2018. Approximately 300 feedlots have submitted Notices of Intent or requests to merge their feedlot with a dairy and are being processed. Staff will continue outreach to ensure the appropriate facilities get enrolled in the program.

**Action 6.5.2(a) Implementation of the Long-Term Irrigated Lands Regulatory Program (ILRP).**

The goal identified in the roadmap was to implement a program that establishes a groundwater protection program for wastes associated with irrigated agricultural practices. More detail on the Long-Term ILRP development and implementation can be found under the Irrigated Lands Regulatory Program section of this EO Report or found at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/index.shtml)

**Action 6.5.2(b) Coordinate with California Department of Food and Agriculture (CDFA)** to identify methods to enhance outreach, education, and research through CDFA's fertilizer research and education program. The goal of this action is to reduce groundwater quality impacts from use of

nitrogen based fertilizing materials in agricultural, commercial, and residential applications. ILRP staff is coordinating with CDFA on the nitrogen management certification training for Certified Crop Advisors and individual growers and the development of nitrogen removed calculators for use by the agricultural coalitions. Staff is coordinating with CDFA to augment the irrigation element of the nitrogen management certification training and develop training for continued education credits.

**Action 6.5.3(a) Reduce Site Cleanup backlog.** The goal of this action is to reduce the number of inactive cases (i.e., the case backlog) in the Site Cleanup Program, which originally had 791 backlog cases. During the 2018/2019 fiscal year, 2 open, inactive cases have been reviewed. Of these, 2 were eliminated from the backlog. Of the cases reviewed, 0 need additional staff time and effort on the responsible party's part to resolve. Since the backlog reduction project began, all 791 backlog cases have been initially reviewed with 609 being eliminated from the backlog, and 182 identified as requiring additional resources. Of these remaining 182 Open Inactive Cleanup Program Sites, 45 cases have been assigned to staff who are working on activating the cases.

**Action 6.5.4(c) Develop methods to reduce backlog and increase facilities regulated.** Staff are continuing to enroll dischargers into the state-wide Small Volume Domestic Order and include rescissions of old WDRs into regular Central Valley Water Board meeting agendas. The State Water Board updated the state-wide general order for water recycling in June 2016. Regional Water Board staff has notified the individuals enrolled in the previous, 2014 general order and enrolled them in the new order. The new general order is a useful tool to encourage water recycling.

State Water Board staff has targeted two additional general orders for consideration (a Winery General Order and an Aggregate General Order). Central Valley Water Board staff are involved directly with the development of these general orders, which are expected to reduce the number of backlogged applications and are expected to speed up the processing of applications for WDRs from new or expanding facilities. Board staff are also beginning the process of developing general orders for large domestic wastewater treatment facilities that discharge to land, nut hulling facilities, and canned and frozen food processors. Board staff are committed to working with industry representatives, municipalities, and stakeholders during the development of these general orders.

**Action 6.15 Onsite Wastewater Treatment Systems (OWTS) Policy Implementation; Local Agency Management Program (LAMP) Reviews.** The OWTS Policy gives Local Agencies, mostly county environmental health departments, an option to propose Local Agency Management Programs (LAMPs). The goal of these programs is to demonstrate adequacy of local codes and ordinances to meet new minimum standards both for human health and water quality protection. Draft LAMPs were due to Central Valley Water Board staff by 13 May 2016. Staff received 29 of 30 LAMPs by the submittal deadline, and one late submittal from Tulare County. The Redding, Rancho Cordova, and Fresno Offices coordinated reviews in detail, and resolved most issues with local environmental health directors. Prior to public noticing and recommendations to the Central Valley Water Board for consideration, staff requested directors to gain their Board of Supervisors' approvals, and related new code adoptions. Following this procedure, the Water Board has to date approved 28 LAMPs. One LAMP remains incomplete, from Lake County; staff are working closely with the director, Board of Supervisors, and interested parties on a revised draft. Our Board will consider the LAMP for Sierra County at the August 2018 Board meeting.

Staff have also worked with 22 cities that have OWTS within incorporated boundaries. Most will allow County oversight. However, the Cities of Los Banos, Merced County, and Visalia, Tulare County, have opted for Tier 1.

Staff are also responsible for the review of 8 LAMPs that fall primarily under other Regional Board jurisdictions, but that will regulate OWTS within the Central Valley. Staff have reviewed 7 of these LAMPs, and the remaining Local Agency, Siskiyou County, has not submitted a draft LAMP to Region 1 and may opt for Tier 1. Staff regularly update LAMP review progress on the following webpage: [https://www.waterboards.ca.gov/centralvalley/water\\_issues/owts/lamp\\_reviews/](https://www.waterboards.ca.gov/centralvalley/water_issues/owts/lamp_reviews/)

## PUBLIC OUTREACH

On 19 June, at the Lake County Environmental Health Director's request, staff publicly briefed the Board of Supervisors on OWTS Policy regulatory background, implementation schedule, and consideration of Clear Lake. Supervisors expressed continued concerns about meaningful data collection near Clear Lake. Representatives from a local tribe expressed concerns about potential OWTS impacts to the lake. While the Pawnee and Mendocino Complex Fires have since further delayed draft LAMP submittal, staff plans to coordinate with the WDR Program, TMDL Unit, County Environmental Health Department, Board of Supervisors, and local tribes on a draft LAMP after the 2018 fire season.

On 19 July, Anthony Toto attended the Environmental Justice Roundtable Meeting at Region 3, San Luis Obispo, and participated in a field visit to Bonita Elementary School – a small school with nitrate impacts to drinking water.

On 19 July, Bethany Soto attended the Kaweah River Basin Integrated Regional Water Management (IRWM) Plan Joint Meeting of the Group Governing Board and Stakeholder Advisory Group in Farmersville, California. The meeting provided an update of Department of Water Resources' (DWR) proposal solicitation process and schedule for Prop 1 IRWM implementation grants. New project proposals were identified and discussed for inclusion in the group's IRWM plan. Lastly, the group reviewed edits to the IRWM plan and provided additional comments in preparation to meet the Prop 1 standards required by DWR to be eligible for funding.

On 21 July, Jason Schroeder, Valerie Rasmussen and Natalie Bainbridge participated in the Science, Technology, Engineering, and Mathematics (STEM) Expo and Safe Education and Recreation for Rural Families (SERRF) Fair in Red Bluff at the Tehama County Fairgrounds. Staff set up a booth at the STEM/SERRF Fair and discussed the mission of the Central Valley Water Board with approximately 700 students. Students were given bingo sheets and could earn stamps by asking questions about engineering, science, and geology careers.

On 25 July, Alex MacDonald presented at the Aerojet Community Advisory Group's bi-monthly meeting. The presentation included field activities at the Aerojet Superfund Site and the Inactive Rancho Cordova Test Site, the investigation of perfluorinated compound in groundwater on Aerojet and at the Former Mather AFB, upcoming well installations and reports to be submitted. The meeting focused on Remedial Action Plan and CEQA document for the proposed remediation of Area 40, which will be part of the City of Folsom's south of US 50 development project.

On 26 July, Doug Patteson attended a joint meeting of the California Air Resources Board's Dairy and Livestock Subgroups, which were formed to develop policy recommendations to promote methane reduction strategies at California dairy and livestock facilities.

On 26 July, James Taylor participated in a Proposed Plan Public Meeting at the North Highlands Recreation Center in North Highlands to receive public input regarding selection of remedial alternatives for 15 Group 4 Installation Restoration Program sites within the Finding of Suitability for Early Transfer #1 property at the former McClellan Air Force Base Superfund Site (now known as McClellan Park. [JDT])

On July 26-27, Sue McConnel and Robert Ditto attended a quarterly ILRP roundtable meeting which included a field visit to a farm in Lodi.

On 28 July, Clay Rodgers and Doug Patteson represented the Central Valley Water Board at a community event in Allensworth. The event was held at the Allensworth State Park to bring community members together and provide information about various government agencies and nongovernmental organizations.

On 31 July, Bethany Soto participated in a conference call with the Westside-San Joaquin IRWM Group. The meeting discussed updating the group's IRWM plan in preparation for submittal to DWR for Prop 1 funds. One of the main focuses was how the IRWM plan must contain a process to solicit and select projects for inclusion in the IRWM plan. In addition, the methodology of reviewing projects and ranking

them for prioritization and inclusion in the IRWM plan was discussed. The updated IRWM plan is anticipated to go out for public review and comment in September and in November a final plan will be submitted to DWR.

On August 6-9, Robert Ditto and Scott Perrou attended the 2018 Crop Specialty Tour. The tour looked at specialty crops and operations in Visalia and the Salinas Valley.

On 6 August, Bethany Soto participated in a conference call with the Tulare Basin Integrated Regional Planning Effort, which is a group of IRWM practitioners from the Tulare – Kern Funding Area. The meeting focused on the status of each practitioner's IRWM grants, the application process for DWR, the status of the Disadvantaged Communities Engagement Project, and the status of regional groundwater sustainability agencies' efforts to address requirements of the Sustainable Groundwater Management Act.

On 7 August, Anthony Toto participated in a conference call, with the Kern Environmental Enforcement Network (KEEN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. A report on Harmful Algal Blooms (HABs) was reported by Kern County. Anthony shared with the group the portal located at <https://mywaterquality.ca.gov/habs/index.html>

On 10 August, Anthony Toto delivered copies of materials handed out from the Environmental Justice Roundtable. These included the *Drinking Water Resource Guide* at: ([https://www.waterboards.ca.gov/water\\_issues/programs/hr2w/docs/general/dw\\_resource\\_guide.pdf](https://www.waterboards.ca.gov/water_issues/programs/hr2w/docs/general/dw_resource_guide.pdf)) and the *Citizen's Guide to working with the California Water Boards* at: ([https://www.waterboards.ca.gov/publications\\_forms/publications/general/docs/citizenguide.pdf](https://www.waterboards.ca.gov/publications_forms/publications/general/docs/citizenguide.pdf)). Anthony also provided some posters and bookmarks to Nayamin Martinez, MPH, Director of Central California Environmental Justice Network (CCEJN).

On 13 August, Clint Snyder, Angela Wilson, and Jonathan Bishop attended the Governor's Forest Management Task Force meeting in Sacramento. The Task Force is made up of local, state, and federal agencies that have critical land management, funding, and/or permitting responsibilities for forest health project delivery. The Task Force aims to implement the Governor's Executive Order B-52-18, increase the rate of forest treatments and expand state wood product markets through innovation, assistance, and investment in a manner that aligns with the California Forest Carbon Plan.

On 14 August, Patrick Morris attended a meeting of the Headwater Mercury Source Reduction Strategy Technical Advisory Committee in Auburn. The group discussed sediment transport from hydraulic mining activities in the Yuba River basin and inventories of hydraulic mines in the Tahoe National Forest. The group is developing a strategy to identify and prioritize legacy mine cleanups in the Sierra Nevada.

On 27 August, Clint Snyder and Angela Wilson attended the Governor's Forest Management Task Force Regulations Working Group meeting in Sacramento. The Working Group is a subgroup of the larger Task Force, and is charged with identifying ways to reduce barriers to forest health, and fuels reduction projects; this includes an evaluation of permitting mechanisms to accomplish those goals.

## GENERAL UPDATES TO THE BOARD

### 1. Constituents of Emerging Concern Constituents of Emerging Concern

In 2016, Central Valley Water Board staff began working with representatives from the Central Valley Clean Water Association (POTW) and Central Valley Municipal Separate Storm Sewer System (MS4) to develop a work plan in response to State Water Board's *Constituents of Emerging Concern (CECs) Statewide Pilot Study Monitoring Plan* (Pilot Study). The Pilot Study is based on the Southern California Coastal Water Research Project's Technical Report 692, *Monitoring Strategies for Chemicals of Emerging Concern (CECs) in California's Aquatic Ecosystem*. The POTW and MS4 group have developed the *Central Valley Pilot Study for Monitoring Constituents of Emerging Concern (CECs) Work Plan* (Work Plan) based on feedback from the State Water Board and Central Valley Water Board staff.

The Work Plan and a budget request for FY 18/19 were approved at the 17 July 2018 Delta Regional Monitoring Program (DRMP) Steering Committee Meeting. The budget request for FY 18/19 included funds for development of the Quality Assurance Project Plan (QAPP) and program implementation costs (e.g. – planning, contracting, start-up mobilization, etc.). The CEC Subcommittee is currently working with the Aquatic Science Center to develop the QAPP for approval by the Surface Water Ambient Monitoring Program. The DRMP CEC Subcommittee and Central Valley Water Board staff are continuing to explore external funding sources through Supplemental Environmental Projects, potential Prop 1 grants, and other sources with plans to start sampling by July 2019.

### 2. City of Lemoore, Leprino Foods Company, Westlake Farms Inc., and Sandridge Partners, LP

The time schedule order (TSO) for the discharge of combined effluent from City of Lemoore's wastewater treatment facility and Leprino Foods Company to land owned by Westlake Farms Inc., and Sandridge Partners, LP was issued on 27 March 2018. Since that time, Regional Board staff have conducted monthly conference calls with representatives from Lemoore, Leprino, Westlake, Sandridge, and the Los Angeles County Sanitation District. The City of Lemoore and Leprino have submitted a Title 22 Engineering Report for the use of domestic wastewater on crops for submittal to Department of Drinking Water and Regional Board staff on 2 July 2018. The DDW provided comments and recommendations to the Title 22 Engineering Report in a letter issued on 20 August 2018. Staff will work with the Dischargers to make sure the recommendations are included in the execution of the tasks required by the TSO.

### 3. Argonaut Mine, Amador County

Argonaut Mine, a former gold mine which includes the Argonaut Mill Tailings, has been listed on the U.S. Environmental Protection Agency (EPA) National Priorities List in 2016. In 2014, U.S Army Corps of Engineers released a report that the 1916 EMAD Eastwood Multiple Arch Dam (EMAD) holding back the tailings is not structurally sound and could fail. Failure of the EMAD could result in a catastrophic release of tailings into a populated area in the City of Jackson.

At the beginning of dry season 2018, Department of Toxic Substances (DTSC) started construction to stabilize EMAD. The stabilization design includes filling the EMAD arches with foaming concrete (cellular concrete or Cell-crete) and constructing an earth embankment downstream. A blanket geosynthetic drainage layer below the arches and the buttress connected to the inclined drainage layer attached to the arch walls will allow the tailings and the dam to drain. Drainage includes mine influenced water seeping from the tailings which will be separated from other sources of water and eventually treated by EPA. The stabilization project is to be completed by the end of November 2018.

**PERSONNEL AND ADMINISTRATION STAFFING UPDATE**

**STAFFING UPDATE  
July 1, 2018 – August 30, 2018**

**Promotion:**

None

**Leave of Absence:**

James Brownell – Engineering Geologist

**Retirement:**

Jeanne Chilcott – EPM I

David Stavarek – Engineering Geologist

Denise Baumann – AGPA

**Authorized Positions: 261.7**

**Vacant Positions: 11.6**

<b>Separations</b>	<b>New Hires</b>
None	Troy Weber – Environmental Scientist Greg Hendricks – Environmental Scientist Kyle Johnson – Engineering Geologist Lorraine Hicks – Office Technician Lovdeep Singh – WRCE

**Temporary Help Positions**

<b>Separations</b>	<b>New Hires</b>
Randy Caballero – Scientific Aid Sal Torres – Scientific Aid	Jenny Yang – Scientific Aid Monique Gonzales – Seasonal Clerk Alyssa Rhodes – Scientific Aid Samira Galehdari – Scientific Aid Natalie Bainbridge – Scientific Aid

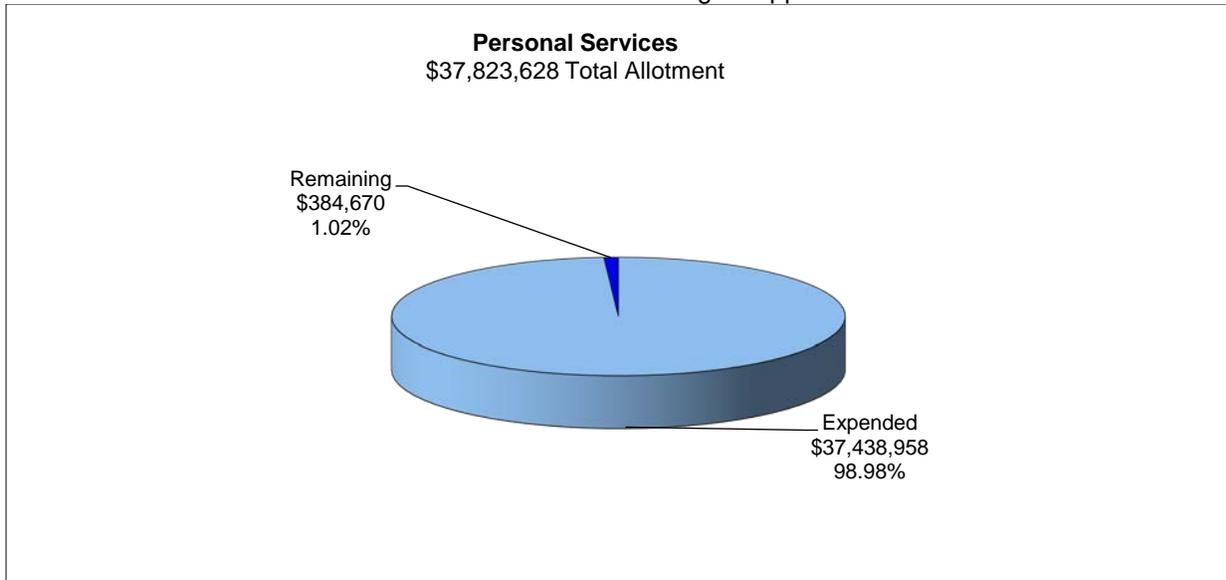
## TRAINING UPDATE

Class Title	Number of Attendees
2018 California Specialty Crops Outreach Tour	2
Advanced GIS: Productivity, Geoprocessing, and Analysis	1
AED/CPR: American Heart Association Heartsaver AED Training	11
Basic Inspector Academy	3
Basic Supervision for Supervisors - Part 1	2
Discovering and Working with Your Talents and Strengths	15
Editing	9
ESRI User Conference	2
First Aid Field Safety / Wilderness Injuries: Be Prepared	9
Harmful Algal Bloom Workshop	2
HAZWOPER 40 Hour	1
Intro to Aquatic Toxicity Testing	1
MSHA New Miner Surface Training	2
Statewide Enforcement Training	15
Statistics Refresher	24
Supervisor's Health and Safety	10
UC Davis 2nd Rustici Rangeland Tour	1
Watercourse Crossing & Design Considerations Workshop	12

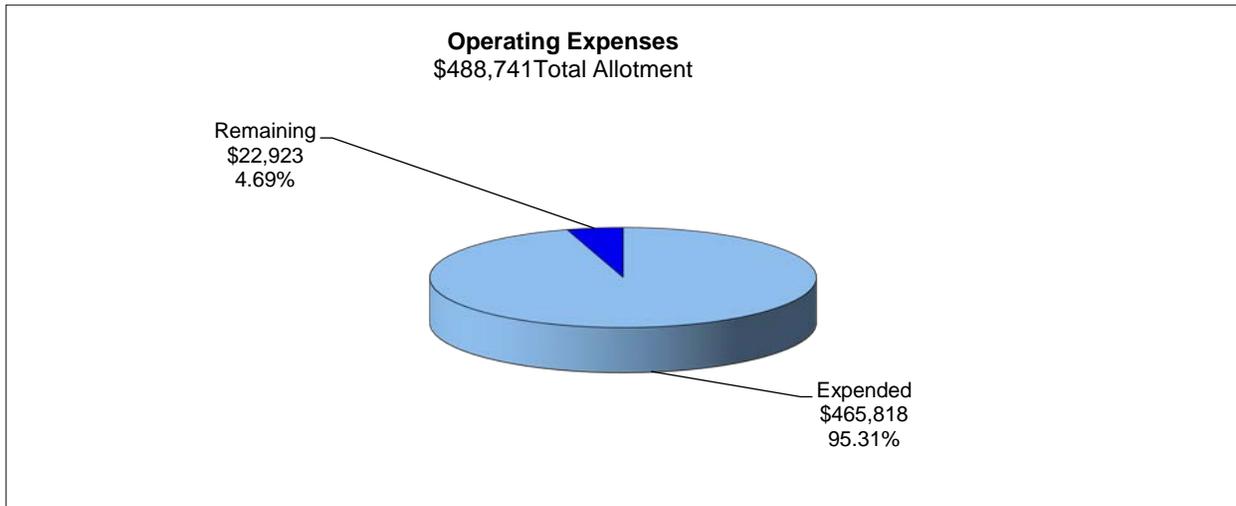
## FISCAL UPDATE Through June 30, 2018 (100% should be expended to-date.)

### Personal Services:

The information below represents the budget for the 2017-18 Fiscal Year. Data for the 2018-19 Fiscal Year is unavailable at this time. Our Personal Services budget supports 261.7 PYs.

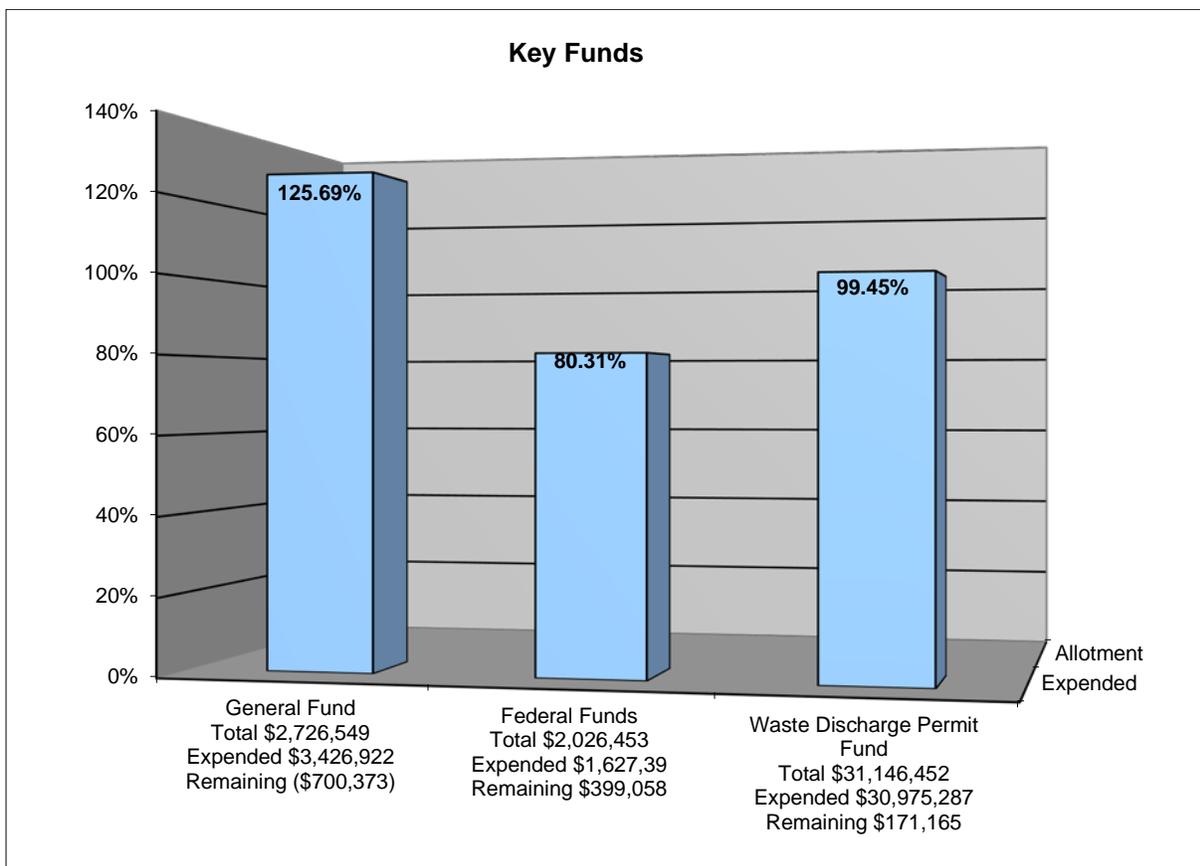


Operating Expenses:



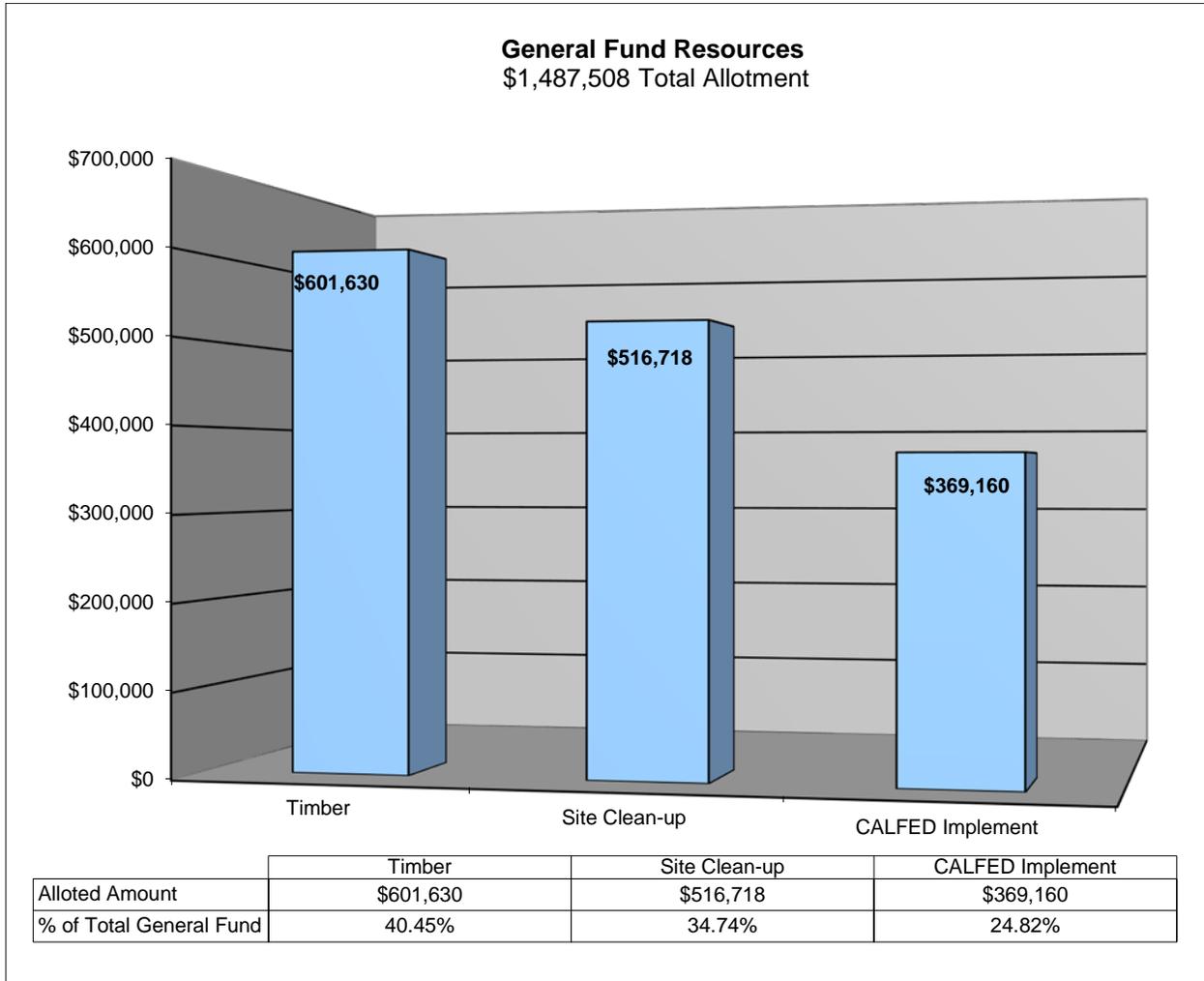
Key Funds:

Key funds are provided through General, Federal (Lawrence Livermore, Leaking Underground Storage Tanks, Non-Point Source, and NPDES), and Waste Discharge Permit fund sources. Although some funds appear to be over-expended for the Region, expenditures and allocations are balanced by the Budget Office of the State Water Resources Control Board to ensure funding is available where needed and required across all of the Water Boards.



General Fund Resources:

The Legislature and the Governor have directed our General Fund monies to specific programs. We have very little discretion in shifting these resources from one program to another.



## CONTRACTS

### OPERATIONAL SUPPORT SERVICES

CONTRACT NUMBER	CONTRACTOR NAME	DESCRIPTION	START DATE	END DATE	AMOUNT
16-029-150	Courtney Aviation	Airplane inspection services – Rancho Office	04/18/2017	03/31/2019	\$ 40,000
17-150-1087	California Reporting, LLC	Electronic Reporting Tool and Transcription Services	06/01/2018	06/30/2019	\$ 9,999
17-084-150	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services – Redding Office	05/24/2018	10/31/2020	\$ 60,000
18-150-0010	Class Act Alliance	Professional sign language interpretation	07/01/2018	06/30/2020	\$ 9,999
WATER QUALITY STUDY/PLANNING					
16-046-150	UC Davis	Study to develop reference toxicity values for herbicides/fungicides present in Delta for native algal species.	TBD	02/12/2020	\$375,000
16-048-150	UC Santa Cruz	Evaluation of temperature criteria to recommend methodology for deriving temperature criteria.	03/13/2017	03/31/2019	\$396,250
16-074-150, Am. 1	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	06/30/2019	\$183,511
17-022-150	Department of Water Resources	Ongoing operation and maintenance – SWAMP.	07/01/2017	06/30/2020	\$ 180,000
17-054-150	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP).	01/09/2018	06/30/2020	\$154,191
17-065-150	USGS	Non-point source aquatic passive sampling study plan (Phase 2).	06/30/2018	03/31/2020	\$190,000
17-066-150	Dept. of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	03/31/2020	\$154,055
17-069-150	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	06/30/2020	\$135,500
18-027-150	UC Davis	Tech assistance to determine pyrethroid partition coefficients for sediment samples of the Central Valley.	TBD	01/31/2021	\$100,000
18-057-150	UC Davis	Interpretation of Soil Chemistry	TBD	03/31/2020	\$199,987
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 Associates, Inc.	Lab services (Fresno office)	08/15/2018	06/30/2021	\$195,000
18-058-150	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads, cycling and characterize ecosystem response under current and future scenarios.	TBD	03/31/2020	\$400,000

## **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.

### **DECEMBER 2018 BOARD MEETING**

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

- City of Fresno WWTF (Revised WDRs)
- Low Threat Waiver for Specific Types of Discharges to Land (Renewed Resolution)
- Morning Star Packing Company, Colusa County (Revised WDRs)
- Soper Wheeler Log Yard (Revised WDRs)
- Fulton Reclamation (Revised WDRs)
- UC Davis CABA II, Yolo County (Revised WDRs)
- Sherwood Hills, Produced Water from Oil Production (New WDRs)

#### **LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27**

- Chateau Fresno Landfill, Fresno County (Revised WDRs)
- Musco Olive (amended WDRs)

#### **NPDES PERMITTING**

- City of Dunsmuir WWTP Renewal
- City of Davis WWTP Renewal
- City of Lincoln WWTP Renewal
- Ironhouse Sanitary District WRF Renewal
- Portola WWTP Renewal

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

- Information Item on State Water Board's Eastern San Joaquin Petition Order and ILRP General Order Updates (including On-Farm Drinking Water Well Monitoring and Surface Water Monitoring Expert Review)

### **FEBRUARY 2019 BOARD MEETING**

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

- Sierra Forrest Products (Revised WDRs)
- Atlas Business Park WWTF (Revised WDRs)
- City of Lemoore/Leprino WWTF (Revised WDRs)
- Smucker's Juice (Revised WDRs)
- Sacramento Rendering (Amended WDRs)
- Mule Creek State Prison (Amended WDRs)

#### **LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27**

- Butts Canyon Geothermal (New WDRs)
- Eastlake Landfill (Revised WDRs)
- Western Regional (Revised WDRs)
- Black Butte (Revised WDRs)

**NPDES PERMITTING**

- Municipal General Order Amendment
- City of Yuba City Renewal
- Rio Vista Beach WWTP Renewal
- Brentwood WWTP Renewal
- SPX Marley Cooling Tower GWTS Renewal
- CDCR Deuel Vocational Institution WWTP Renewal
- Forbestown WTP Renewal
- City of Clovis WWTF Renewal

**IRRIGATED LANDS REGULATORY PROGRAM**

- Grasslands Drainage Area (Revised WDRs)
- Rice Growers with the Sacramento Valley (Revised WDRs)
- Sacramento River Watershed (Revised WDRs)
- San Joaquin County and Delta Area (Revised WDRs)
- Tulare Lake Basin Area (Revised WDRs)
- Western San Joaquin River (Revised WDRs)
- Western Tulare Lake Basin Area (Revised WDRs)

**APRIL 2019 BOARD MEETING****WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND**

- Olson Meats (Revised WDRs)
- KRS Truck Wash (New WDRs)
- Barrel 10 Winery (Amended WDRs)

**LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27**

- Exeter Landfill, Tulare County (Revised WDRs)
- Geer Landfill (Revised WDRs)

**NPDES PERMITTING**

- Paradise WTP Renewal
- Burney Cogeneration/Sawmill Renewal

**IRRIGATED LANDS REGULATORY PROGRAM**

- Individual Growers (Revised WDRs)

**PENDING ACTIONS, BUT NOT YET SCHEDULED FOR A BOARD MEETING****WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISPOSAL TO LAND**

- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Lone (Revised Cease and Desist Order)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto WWTF (Revised WDRs)
- City of Richgrove WWTF (Revised WDRs)
- City of Tuolumne WWTF (Revised WDRs)
- Dairy General Order (Revised WDRs)
- E&J Gallo Madera (Revised WDRs)
- E&J Gallo Livingston (Revised WDRs)
- Exeter Ivanhoe Citrus (Revised WDRs)

- Farmersville WWTF (Revised WDRs)
- Former Pilkington Glass Manufacturing Facility (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- E&J Gallo Liberty Winery (New WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- North State Rendering Tallow Plant (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)
- Tomatek and City of Firebaugh (Revised WDRs)
- Tasteful Selections (Revised WDRs)
- Tuolumne City Sanitary District (Revised WDRs)
- Westwood STP (Revised WDRs)
- Wonderful Pistachios (Revised WDRs)

#### **LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27**

- Forward Landfill (Revised WDRs)
- Pittsburg Landfill (Revised WDRs)
- Roseville Landfill (Revised WDRs)
- SMS Briners (Revised WDRs)
- UC Davis Landfill (Revised WDRs)
- Ponderosa Landfill (Revised WDRs)
- Dixon Pit Landfill (Revised WDRs)
- Rio Vista Landfill (Revised WDRs)
- Steele Canyon Landfill (Revised WDRs)
- Lincoln Landfill (Revised WDRs)
- Meadow Vista Landfill (Revised WDRs)

#### **NPDES PROGRAM – PERMITTING**

- City of Lodi White Slough WPCF Rescission
- Malaga WWTF Rescission
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Delleker WWTP Renewal
- Washington Mine Renewal
- Alturas WWTP Renewal
- Vacaville Easterly WWTP Renewal
- City of Stockton WWTP Renewal
- Town of Discovery Bay WWTP Renewal
- Cold Water CAAP General Order Renewal
- McClellan AFB GETS Rescission
- Yosemite National Park, El Portal WWTF Renewal

#### **401 WQC – PERMITTING**

- Dredging General Order

#### **STORM WATER**

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

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

### **Central Valley Pyrethroids Basin Plan Amendment**

2018-08-31 The Basin Plan Amendment was adopted by the Central Valley Water Board on 8 June 2017, and approved by the State Water Board on 10 July 2018. OAL and USEPA approval are still needed before it becomes fully effective.

### **Water Quality Objectives for Salinity in the Lower San Joaquin River**

2018-09-04 The Central Valley Water Board adopted the proposed amendment on 8/9 June 2017. The State Water Board approved the amendment on 9 January 2018. Documents were approved by OAL in April 2018 and are under consideration by USEPA.

### **Central Valley Diuron Basin Plan Amendment**

2018-08-31 A review of the most current water quality information indicates the Irrigated Lands Regulatory Program is effectively addressing all diuron impairments. The 2014 Integrated Report included documentation for listing several diuron impairments as being addressed by an existing regulatory program and not needing TMDLs (category 4b). Additional de-listings and/or category 4b demonstrations are being prepared for the 2018 listing cycle.

### **Revisions to General Order for Poultry Facilities**

2018-03-02 Order No. R5-2016-0087 was adopted on 6 December 2016. A General Order update was presented to the Regional Board in August 2017. Revisions to the General Order for Poultry Facilities are anticipated to be presented to the Regional Board for consideration in 2018.

### **Mercury Implementation Plan for Reservoirs**

2018-09-04 Staff from Regions 2, 5 and State Board are developing a program to address fish mercury impairments in about 130 reservoirs statewide. Staff prepared the scientific and technical analysis and regulatory provisions for the implementation plan. The scientific peer review is complete and staff is drafting responses to peer review comments. Staff is forming a reservoir owner working group to develop coordinated pilot tests.

### **CV-SALTS Basin Plan Amendments**

See Page 23 of this report.

### **Revision of General Order for Existing Dairies**

2018-08-27 Revision of Revised General Order R5-2013-0122 to include requirements for composting consistent with the statewide composting General Order WQ 2015-0121-DWQ and requirements for land application areas consistent with the Irrigated Lands Regulatory Program requirements. Staff is drafting revisions for Board considerations at future meeting.

### **Water Quality Objectives for Ammonia**

2018-06-20 Scoping meetings held on 15, 16 and 22 March in Rancho Cordova, Fresno and Redding, respectively. Agency meeting held 24 May. Toxicity testing in progress to provide information for criteria development.

### **New Winery Waste Guidelines**

2018-06-29 Industry recommendations have been reviewed by CV-SALTS Management Practices Subcommittee. Currently the CV-SALTS Management Practices Subcommittee is on hold while salinity management alternatives are being evaluated. New state-wide general order being developed with consideration of these recommendations as well as others through the outreach program.

### **Development of Permit for Federal Non-Point Source activities on Forest Lands**

2018-05-09 R5 is working with R6 to develop similar permits to cover NPS activities on USFS and BLM managed lands with the potential to affect water quality. The R5 MS4 permit is being used as a model and an EIR will be developed to address CEQA. 6 initial public outreach meetings were held from

October through early December 2017. Project information can be found here:  
[http://www.waterboards.ca.gov/lahtontan/water\\_issues/programs/nps/federal\\_lands/](http://www.waterboards.ca.gov/lahtontan/water_issues/programs/nps/federal_lands/)

**Implement Mercury TMDL/Control Program in Cache Creek Watershed**

2018-08-27 Mining wastes at 6 inactive mercury (Hg) mines in the upper Cache Creek watershed were remediated in summer 2016 to prevent the continued erosion of mercury sediment into Sulphur Creek, a tributary to Cache Creek.

## ATTACHMENT A - Sanitary Sewer Spills - Summary Report

Count of Spills for June 2018

Count of Spills Month	5F				5R				5S				Grand Total
	Category 1	Category 2	Category 3	5F Total	Category 1	Category 2	Category 3	5R Total	Category 1	Category 2	Category 3	5S Total	
June 2018	1	0	6	7	1	0	2	3	4	2	59	65	75
<b>Total</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>59</b>	<b>65</b>	<b>75</b>

Spill Cause	Count of Spills	%
Root Intrusion	34	45.3%
Debris-General	13	17.3%
Debris-Rags	5	6.7%
Grease Deposition (FOG)	5	6.7%
Other	5	6.7%
Pipe Structural Problem/Failure	5	6.7%
Operator error	2	2.7%
Pump Station Failure-Mechanical	2	2.7%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	1.3%
Construction Diversion Failure	1	1.3%
Damage by others not related to CS Const/Maint.	1	1.3%
Pump Station Failure-Power	1	1.3%
<b>Total</b>	<b>75</b>	<b>100%</b>

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

Reach surface water and/or reach a drainage channel tributary to a surface water; or

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

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

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

# ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - June 2018

Region	Collection System	WDID	Spill ID	Certification Status	Spill Type	Spill Location Name	County	Did Spill Reach Surface Waters? (Y/N)	Total Spill Volume (Gallons)	Spill Volume that Reached Surface Waters (Gallons)	Start Date	Spill Cause	
SS	El Dorado Hills CS	55SO10941	848537	Certified	Category 1	EDH-2018-06-04	El Dorado	Yes	1,940	1,880	6/24/2018	Grease Deposition (FOG)	
SS	City of Sacramento Utilities CS	55SO10901	848004	Certified	Category 1	4821 Hillsboro Lane Sacramento, Ca.	Sacramento	Yes	330	125	6/8/2018	Other (specify below)	
SS	Sacramento Area Sewer District CS	55SO10912	848609	Certified	Category 1		217034	Sacramento	Yes	636	107	6/25/2018	Root Intrusion
SS	Soda Springs CS	55SO11503	848171	Certified	Category 1	north side of Serene Road just west of Soda Springs Road	Placer	Yes	50	50	6/6/2018	Pipe Structural Problem/Failure	
5R	Quincy CS	55SO10844	848305	Certified	Category 1	652 West Main St.,Quincy, Calif. 95971	Plumas	Yes	45	35	6/20/2018	Other (specify below)	
5F	Tuolumne Meadows CS	55SO10779	848204	Certified	Category 1	Tuolumne Meadow Campground	Tuolumne	Yes	25	25	6/17/2018	Other (specify below)	
SS	Sacramento Regional CS	55SO11045	848415	Certified	Category 2	MH-N50-00013B	Sacramento	No	17,063	0	6/12/2018	Other (specify below)	
SS	Demo North CS	55SO10000	847767	Certified	Category 2	delete	Sacramento	No	2,111	0	6/1/2018	Debris-General	
SS	Sacramento Area Sewer District CS	55SO10912	849548	Certified	Category 3		217226	Sacramento	No	932	0	6/28/2018	Damage by others not related to CS Const/Maint.
5R	Redding City CS	55SO10801	849265	Certified	Category 3	970 Hartnell Ln	Shasta	No	315	0	6/21/2018	Other (specify below)	
SS	Folsom State Prison CS	55SO11192	848288	Certified	Category 3	FWF Sewer Pumping Station	Sacramento	No	300	0	6/20/2018	Pump Station Failure-Mechanical	
SS	Sacramento Area Sewer District CS	55SO10912	849560	Certified	Category 3		215665	Sacramento	No	278	0	6/5/2018	Root intrusion
5F	City of Fresno CS	55SO11202	849494	Certified	Category 3	W. Jennifer Ave. & N. Gates Ave.	Fresno	No	225	0	6/18/2018	Construction Diversion Failure	
SS	Delta Diablo SD CS	25SO10127	848690	Certified	Category 3	305 8th Street Antioch Ca, Cross streete D street	Contra Costa	No	213	0	6/13/2018	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	
5F	Wasco State Prison CS	55SO10775	847858	Certified	Category 3	Wasco State Prison	Kern	No	150	0	6/6/2018	Debris-Rags	
5F	Clover Creek CS	55SO11675	847995	Certified	Category 3	Lodgepole Camprground	Tulare	No	150	0	6/8/2018	Debris-General	
5F	Clover Creek CS	55SO11675	848482	Certified	Category 3	Lodgepole Camprground Upper Loop MH823	Tulare	No	150	0	6/22/2018	Debris-Rags	
SS	El Dorado Hills CS	55SO10941	848735	Certified	Category 3	EDH-2018-06-03	El Dorado	No	94	0	6/18/2018	Root Intrusion	
SS	County Service Area 44 Zone G CS	55SO11483	849366	Certified	Category 3	27632 Leena	San Joaquin	No	60	0	6/16/2018	Pump Station Failure-Mechanical	
SS	Davis CS	55SO10921	847973	Certified	Category 3	101 Grande Ave.	Yolo	No	35	0	6/7/2018	Root Intrusion	
SS	City Of Jackson CS	55SO10895	848099	Certified	Category 3	711 Court St.	Amador	No	29	0	6/13/2018	Pipe Structural Problem/Failure	
5F	Tuolumne Meadows CS	55SO10779	848264	Certified	Category 3	Tuolumne Meadow Campground	Tuolumne	No	25	0	6/15/2018	Debris-Rags	
SS	City Of Live Oak CS	55SO10898	849659	Certified	Category 3	2998 Pennington Rd Live Oak CA 95953	Sutter	No	25	0	6/15/2018	Debris-General	
SS	Sacramento Area Sewer District CS	55SO10912	849547	Certified	Category 3		215543	Sacramento	No	25	0	6/3/2018	Root intrusion
SS	Grass Valley City CS	55SO10958	848737	Certified	Category 3	614 Kate Hayes	Nevada	No	20	0	6/29/2018	Root Intrusion	
SS	Modesto CS	55SO11001	848789	Certified	Category 3	1230 Lauralee Ct, Modesto ca 95350	Stanislaus	No	20	0	6/3/2018	Grease Deposition (FOG)	
SS	City of Stockton MUD CS	55SO11433	847998	Certified	Category 3	12 W. Anderson St Stockton Ca	San Joaquin	No	20	0	6/8/2018	Debris-General	
SS	Dry Creek CS	55SO10935	849045	Certified	Category 3	1552 Diamond Woods Ci.	Placer	No	19	0	6/24/2018	Root Intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	849564	Certified	Category 3		215580	Sacramento	No	17	0	6/3/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849567	Certified	Category 3		216331	Sacramento	No	16	0	6/16/2018	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	849552	Certified	Category 3		216574	Sacramento	No	15	0	6/20/2018	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	849578	Certified	Category 3		216335	Sacramento	No	13	0	6/17/2018	Root intrusion
SS	City of Stockton MUD CS	55SO11433	848235	Certified	Category 3	1236 Castle Oaks Dr Stockton Ca.	San Joaquin	No	12	0	6/14/2018	Root Intrusion	
SS	City of Stockton MUD CS	55SO11433	848687	Certified	Category 3	2854 Chauney Circle Stockton Ca.	San Joaquin	No	12	0	6/26/2018	Root Intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	849557	Certified	Category 3		216526	Sacramento	No	11	0	6/19/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849581	Certified	Category 3		216206	Sacramento	No	11	0	6/14/2018	Pipe Structural Problem/Failure
5R	Delleker CS	55SO10810	848102	Certified	Category 3	130 escondido way	Plumas	No	10	0	6/13/2018	Debris-Rags	
SS	Sacramento Area Sewer District CS	55SO10912	849580	Certified	Category 3		215961	Sacramento	No	10	0	6/10/2018	Root intrusion
SS	Yuba City CS	55SO11100	848138	Certified	Category 3	105 Garden Hwy	Sutter	No	10	0	6/7/2018	Grease Deposition (FOG)	
SS	Dry Creek CS	55SO10935	849496	Certified	Category 3	1413 West Colonial Wy.	Placer	No	9	0	6/30/2018	Root Intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	849554	Certified	Category 3		215960	Sacramento	No	9	0	6/10/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849573	Certified	Category 3		217032	Sacramento	No	8	0	6/24/2018	Debris-General
SS	City of Sacramento Utilities CS	55SO10901	848302	Certified	Category 3	6291 14th Street Sacramento, Ca.	Sacramento	No	8	0	6/15/2018	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	55SO10912	849563	Certified	Category 3		215697	Sacramento	No	7	0	6/6/2018	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	849565	Certified	Category 3		215659	Sacramento	No	7	0	6/5/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849570	Certified	Category 3		215773	Sacramento	No	7	0	6/6/2018	Debris-General
SS	Easterly CS	55SO10938	848620	Certified	Category 3	713 west monte vista	Solano	No	7	0	6/28/2018	Grease Deposition (FOG)	
SS	Sacramento Area Sewer District CS	55SO10912	849566	Certified	Category 3		215772	Sacramento	No	6	0	6/6/2018	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	849568	Certified	Category 3		216916	Sacramento	No	6	0	6/22/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849579	Certified	Category 3		215536	Sacramento	No	6	0	6/3/2018	Root intrusion
SS	West Sacramento CS	55SO11082	848804	Certified	Category 3	2225 Holly Street, West Sacramento	Yolo	No	6	0	6/28/2018	Debris-General	
5F	Yosemite Valley CS	55SO10774	849393	Certified	Category 3	Yosemite Lodge laundry facility private sump pump station	Mariposa	No	5	0	6/4/2018	Pump Station Failure-Power	
SS	City Of Antioch CS	55SO10890	848265	Certified	Category 3	610 Putnam St Antioch Ca	Contra Costa	No	5	0	6/13/2018	Debris-Rags	
SS	Sacramento Area Sewer District CS	55SO10912	849553	Certified	Category 3		215959	Sacramento	No	5	0	6/10/2018	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	849558	Certified	Category 3		217331	Sacramento	No	5	0	6/29/2018	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	849575	Certified	Category 3		215732	Sacramento	No	5	0	6/6/2018	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	849549	Certified	Category 3		215528	Sacramento	No	3	0	6/2/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849551	Certified	Category 3		216354	Sacramento	No	3	0	6/18/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849569	Certified	Category 3		217355	Sacramento	No	3	0	6/30/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849572	Certified	Category 3		216698	Sacramento	No	3	0	6/20/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849574	Certified	Category 3		217097	Sacramento	No	3	0	6/26/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849576	Certified	Category 3		215958	Sacramento	No	3	0	6/10/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849577	Certified	Category 3		216120	Sacramento	No	3	0	6/11/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849582	Certified	Category 3		216352	Sacramento	No	3	0	6/18/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849583	Certified	Category 3		216002	Sacramento	No	3	0	6/11/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849546	Certified	Category 3		215889	Sacramento	No	2	0	6/8/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849556	Certified	Category 3		215437	Sacramento	No	2	0	6/1/2018	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	849559	Certified	Category 3		217364	Sacramento	No	2	0	6/30/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849550	Certified	Category 3		216373	Sacramento	No	1	0	6/18/2018	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	849555	Certified	Category 3		217073	Sacramento	No	1	0	6/26/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849561	Certified	Category 3		217254	Sacramento	No	1	0	6/28/2018	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	849562	Certified	Category 3		215456	Sacramento	No	1	0	6/1/2018	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	849571	Certified	Category 3		216551	Sacramento	No	1	0	6/20/2018	Root intrusion
SS	South Placer Mud CS	55SO11054	849327	Certified	Category 3	2437 Pinnacles Drive, Rocklin CA	Placer	No	1	0	6/7/2018	Root Intrusion	
SS	South Placer Mud CS	55SO11054	849329	Certified	Category 3	3307 Stanford Village Ct, Rocklin, CA	Placer	No	1	0	6/10/2018	Root Intrusion	