

**California Regional Water Quality Control Board
Central Valley Region
Pamela C. Creedon, Executive Officer**



**EXECUTIVE OFFICER'S REPORT
DECEMBER 7/8, 2017**

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SUCCESS STORIES

1. SB445 FUNDING AWARDED

- **Madera Cleaners & Laundry, 321 South “C” Street, Madera, Madera County.** A dry cleaning and laundry facility has operated continually at the site since 1945. The site, however, no longer uses the solvent tetrachloroethene (PCE). A soil vapor survey conducted by Central Valley Regional Water Quality Control Board staff found PCE in the area of the site. Soil vapor extraction was conducted at the site from August 2010 to January 2011, but no additional work has been done. The property owner submitted an application to the State Water Board for Senate Bill 445 funds to do additional investigation and cleanup of the site. The property owner contracted with an environmental consultant that has prepared a detailed scope of work, cost estimate, and Project Execution Plan proposing tasks to assess soil, soil vapor, and groundwater quality. The State Water Board Site Cleanup Subaccount Program awarded a \$43,750 grant to the Discharger. Field work at the site is scheduled to begin in January 2018.
- **Chowchilla Cleaners, 143 North Fourth Street, Chowchilla, Madera County.** At least five different dry cleaning business have occupied the property since the 1950s. An environmental assessment in the early 1990s discovered tetrachloroethene (PCE) in groundwater. Remedial investigation work was requested by the Regional Water Quality Control Board in 1996, but by 2006, the requested work had not been done due to lack of funding. In 2016, the Central Valley Water Board again requested remedial investigation be conducted, but insufficient funds were available to do the requested work. The property owner submitted an application to the State Water Board for Senate Bill 445 funds to do additional investigation and cleanup of the site. The property owner contracted with an environmental consultant that has prepared a detailed scope of work, cost estimate, and Project Execution Plan proposing tasks to assess soil, soil vapor, and groundwater quality. The State Water Board Site Cleanup Subaccount Program awarded a \$666,659 grant to the Discharger. Field work at the site is scheduled to begin in January 2018.
- **Oakhurst Cleaners, 40399/40368 and 40441 Highway 41, Oakhurst, Madera County.** The project site consists of two related dry cleaners located within a few hundred feet of each other. Both dry cleaners used tetrachloroethene (PCE) until closing in 2013. The Central Valley Water Board requested a site investigation be conducted in 2006, but the responsible party was unable to comply due to lack of funds. Periodic sampling of water wells in the area has been conducted by Central Valley Water Board staff. However, no active cleanup of the site has occurred. The property owner submitted an application to the State Water Board for Senate Bill 445 funds to do an investigation and cleanup of the site. The property owner contracted with an environmental consultant that has prepared a detailed scope of work, cost estimate, and Project Execution Plan proposing tasks to assess soil, soil vapor, and groundwater quality. The State Water Board Site Cleanup Subaccount Program awarded a \$785,057 grant to the Discharger. Field work at the site began in August 2017.

2. Washington Mine Tailings and Waste Rock Disposal Facility, French Gulch, Shasta County

Washington Mine, owned and operated by French Gulch Nevada Mining Corporation, is an active underground hard-rock gold mine and mill operation located approximately 20 miles northwest of Redding. The mine site contains a tailings and waste rock disposal facility which is regulated by Title 27 WDRs (adopted in 2011). The site included approximately 20,000 cubic yards of historic mill tailings located in an unlined disposal area. These tailings posed a slope stability hazard and a threat to water quality due to the arsenic concentration present in the material. The WDRs required the owner to remove the historic tailings from the unlined disposal site and place the tailings in a Group B mining waste management unit (WMU) by September 2015. For the past two years the owner had not been able to comply with the deadline due to delays in review of their Mining and Reclamation Plan and because other necessary permits and documents had not been issued which would have provided the owner an alternate disposal location for current tailings. During the summer 2017, Water Board staff actively engaged with the owner to ensure the historic tailings were transferred to the lined Group B WMU before the wet

season. The owner was successful in their efforts and has reported that the final transfer of tailings was accomplished in September 2017.

3. **SITE CLEANUP- SUCCESSFULLY CLOSED – NO FURTHER ACTION REQUIRED**

- **Former Bulk Plant, 545 South Main Street, Red Bluff, Tehama County, Case 2050164**
From approximately 1919 to 1992, the subject property (Site) operated as a petroleum bulk facility, dispensing gasoline, diesel, and motor oil. The former bulk plant features included two loading racks, dispenser islands, and three aboveground storage tanks (ASTs) ranging in size from 10,000 to 20,000 gallons. The ASTs were removed prior to 1994, and the Site has since been redeveloped as a sporting goods store and an automotive parts store. In November 2006, the Executive Officer of the Central Valley Water Board issued Cleanup and Abatement Order R5-2006-0732 (Order) to Trinity Retail Group, LLC, Chevron EMC, Shasta Siskiyou Transport, and ConocoPhillips (Dischargers) due to petroleum pollution in groundwater. In 2010, the Dischargers installed and began operating an onsite air sparge/soil vapor extraction (AS/SVE) remediation system and an offsite downgradient AS system. The offsite and onsite systems were shut down in December 2014 and February 2015, respectively. During its five years of operation, the SVE system removed approximately 89,689 pounds of gasoline-range hydrocarbons, 902 pounds of benzene, and 326 pounds of methyl tert-butyl ether (MtBE) from the subsurface. Recent groundwater monitoring data shows that combined active cleanup and natural attenuation have been effective in reducing the contaminant mass. As part of site closure activities, the Discharger recorded a Deed Restriction at Tehama County Recorder's Office. Staff closed the case and rescinded CAO 06-732 in October 2017.
- **Cain Electrical Works, 230 North Church Street, Lodi, San Joaquin County.** Perchloroethylene (also known as PCE, a chlorinated solvent) was discovered in soil gas beneath a former electric motor and pump repair business in Lodi that had operated from 1950 to the early 2000's. The property owner characterized PCE in soil gas and installed four groundwater monitoring wells. None of the groundwater samples collected contained PCE or its breakdown products. The property owner installed a small soil vapor extraction system, which reduced influent soil gas concentrations to below cleanup goals. Subsequent soil gas confirmation samples indicated that the removal action achieved the cleanup goals. A conditional No Further Action Determination letter was issued on July 19, 2017. Following receipt of documentation of the destruction of the site monitoring wells and soil vapor extraction wells, a final No Further Action Determination, Effective Date letter was issued on September 19, 2017.
- **Cleanup and Abatement Order Rescinded, Alpha Explosives, Placer County.** In 1999, the Central Valley Water Board issued Cleanup and Abatement Order No. 99-715 to Alpha Explosives directing it to conduct site assessment into the extent of nitrate and perchlorate in soil and groundwater. In 2002, a revision was issued as Cleanup and Abatement Order No. R5-2002-0719 (CAO), adding Hercules Incorporated as a named responsible party and directing Alpha Explosives and Hercules Incorporated to conduct remediation. Alpha Explosives and Hercules Incorporated conducted pilot studies of various in-situ groundwater treatments, obtained Waste Discharge Requirements (R5-2006-0110) for in-situ groundwater injections, and has been injecting acetate semi-annually to facilitate biological degradation of nitrate and perchlorate since about 2006. Alpha Explosives has completed all the tasks required of the CAO, and Central Valley Water Board staff has confidence that Alpha Explosives and Hercules Incorporated will continue to remediate groundwater in the absence of a CAO. Therefore, CAO R5-2002-0179 was rescinded on 24 October 2017.

- **Chevron, 990 Beechnut Avenue, Tracy, San Joaquin County.** A no further action determination was issued on 26 June 2017. Releases of crude oil from a pipeline that was decommissioned over 50 years ago degraded soil and groundwater at the site. The extent of degraded soil and groundwater has been delineated during multiple assessments. Approximately 4,000 tons of impacted soil was excavated in 2010 and removed from the site. Groundwater sampling and analysis determined that current concentrations of petroleum hydrocarbons were detected either at or less than analytical detection limits, and not significant. A risk assessment determined that any remaining petroleum hydrocarbons do not appear to pose an unacceptable risk to human health or the environment considering future uses as commercial/industrial or residential. A Fact Sheet was distributed to nearby property owners and posted on the Central Valley Water Board website and no comments were received. Remaining petroleum hydrocarbons are expected to continue to degrade naturally.
- **Christian Avenue Site, Dos Palos, Merced County.** A no further action determination was issued on 12 April 2017. Releases from aboveground storage tanks degraded soil and groundwater with petroleum hydrocarbons. The tanks were removed from the site and degraded soils were excavated and remediated onsite. Onsite groundwater is of poor quality with an electrical conductivity of 15,000 micromhos per centimeter. A report prepared by Cambria Environmental Technology, Inc., and signed by a State of California Professional Geologist states that remaining petroleum hydrocarbon constituents in soil and groundwater are below environmental screening levels and do not pose a threat to human health or groundwater. Staff concurred. A Fact Sheet was distributed to nearby property owners and posted on the Central Valley Water Board website and no comments were received. Remaining petroleum hydrocarbons are expected to continue to degrade naturally.
- **Chestnut and Alluvial Site, Fresno, Fresno County.** A no further action determination was issued on 12 April 2017. Releases from aboveground storage tanks degraded soil with petroleum hydrocarbons. Degraded soils were excavated and disposed of offsite. Confirmation soil samples were collected and remaining petroleum hydrocarbon concentrations in soil were below residential land use environmental screening levels. A Fact Sheet was distributed to nearby property owners and posted on the Central Valley Water Board website and no comments were received. Remaining petroleum hydrocarbons are expected to continue to degrade naturally.
- **North Meadows Development, Bakersfield, Kern County.** A no further action determination was issued on 12 October 2017. Releases from crude oil storage reservoirs degraded soil with petroleum hydrocarbons. Degraded soils were excavated and disposed of offsite. Confirmation soil samples indicated all degraded soil above cleanup levels was removed. Soil vapor samples were collected at 25 locations. A site specific risk assessment determined that the concentrations of volatile organic constituents detected at the site do not pose a threat to human health and safety or the environment. The site also meets the requirements of the Low-Threat Underground Storage Tank Case Closure Policy. A Fact Sheet was distributed to nearby property owners and posted on the Central Valley Water Board website and no comments were received. Remaining petroleum hydrocarbons are expected to continue to degrade naturally.
- **Foster Farms, Highway 140 Ranches One and Two, Stevinson, Merced County.** A no further action determination was issued on 7 September 2017. Releases from aboveground storage tanks degraded soil with petroleum hydrocarbons. Degraded soils were excavated and disposed of offsite. A groundwater assessment was conducted and petroleum hydrocarbons were not detected above environmental screening levels. A Fact Sheet was distributed to nearby property owners and posted on the Central Valley Water Board website and no comments were received. Remaining petroleum hydrocarbons are expected to continue to degrade naturally.
- **Silvas Oil Bulk Fuel Facility, Dinuba, Tulare County.** A no further action determination was issued on 7 September 2017. Releases from aboveground storage tanks degraded soil and groundwater with petroleum hydrocarbons. Degraded soils were excavated to a depth of 20 feet and disposed of offsite. Three groundwater monitoring wells were installed. During the final round of groundwater monitoring petroleum hydrocarbons were not detected. A professional geologist for the consultant, WYR

Engineering, has stated that the site meets the requirements for no further action under the State Water Resources Control Board's Low Threat Underground Storage Tank Case Closure Policy, which can also be used for aboveground storage tanks. Staff concurred. A Fact Sheet was distributed to nearby property owners and posted on the Central Valley Water Board website and no comments were received. Remaining petroleum hydrocarbons are expected to continue to degrade naturally.

4. **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. Investigation and remediation work, therefore, may be discontinued and no further action is required. 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. Upon completion of corrective action, §2728(d)(2) of Title 23 of the California Code of Regulations requires public notification that corrective action has been completed and the regulatory agency does not intend to require additional investigation and cleanup. This document serves to provide public notification for the completion of corrective actions.

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

a) **FRESNO OFFICE**

- **7- Eleven Store #37944, 865 West Manning Avenue, Reedley, Fresno County**
On 4 May 1993 7-Eleven removed USTs with oversight by the Fresno County Division of Environmental Health (FCDEH). 7-Eleven removed approximately 150 cubic yards of soil with an estimated 50 pounds of petroleum product by soil excavation. In August 1993, 7-Eleven installed two vapor extraction wells (VEWs); however, vapor extraction was not conducted. The case was inactive until 15 August 2016 when the UST removal report was discovered in the records of the FCDEH without evidence of case closure. The case was referred to the Central Valley Water Board. On 1 December 2016, CST Brands, the current Site owner, drilled a soil boring at the source location to a depth of 40 feet bgs and soil samples did not contain petroleum constituents exceeding laboratory reporting limits. Recent investigation suggests that natural processes have degraded the petroleum release over the past 23 years. The case has been evaluated for closure based on the evidence presented in the investigation report, and qualifies for case closure in accordance with criteria contained in the *Policy*. This case was closed on 19 September 2017.
- **Closed Store, 3010 South Valentine Avenue, Fresno County**
Four USTs that had been unused for at least 20 years were removed from the Site in March 1988, with oversight by FCDEH staff. Petroleum hydrocarbon constituents were detected in soil samples from beneath the USTs. The case was referred to the Central Valley Water Board on 12 January 2009; however, a soil investigation was not conducted until October to December 2016. Approximately 3,900 pounds of petroleum hydrocarbon constituents are present in soil between 11 and 22 feet below ground surface (bgs), within the area of the former USTs. The release appears limited and does not extend below 30 feet bgs, which is about 30 feet above groundwater. The case has been evaluated for closure based on the evidence presented in the investigation report, and qualifies for case closure based upon the fundamental principles contained in the *Policy*. This case was closed on 11 October 2017.
- **Lost Hills Texaco, 14805 Buford Street, Lost Hills, Kern County**
Texaco discovered an unauthorized gasoline and diesel fuel release to soil and groundwater in 1990, and the UST system was removed in 1992. The case as transferred to the Central Valley Regional Water Quality Control Board in 2011 when the Kern County Local Oversight Program ended. The extent of the release was delineated by investigations and groundwater monitoring from 1992 through 2017. Texaco removed approximately 5,625 pounds of petroleum products by soil vapor extraction and air sparging during 2016 and its consultant estimates that 10,344 pounds of petroleum product remain in soil. Remaining petroleum

constituents are unlikely to threaten the present use of surface water, groundwater and public health. The case was closed on 27 September 2017, in accordance with criteria in the *Policy*.

- **Valero Station & Minimart, 726 South Union Avenue, Bakersfield, Kern County**

Valero discovered an unauthorized diesel fuel release last year during UST removal activities. Valero assessed the vertical and lateral extent of affected soil and human health risk during 2017. An estimated mass of 1,600 pounds of hydrocarbons is estimated to remain in soil. The release did not have sufficient mobility to migrate to groundwater. The remaining effects of the UST release are unlikely to threaten the present use of surface water, groundwater and public health, and should continue to degrade naturally. The case was closed on 18 October 2017 in accordance with criteria contained in the *Policy*.

b) **REDDING OFFICE**

- **Hilltop Gas, 722 East Cypress Avenue, Redding, Shasta County**

A retail gas station has operated at 722 E. Cypress Avenue (Site) since 1997. A case on this property was originally opened in February 1990 as Exxon SS #7-0102 Case #450010 when impacted soil and groundwater were discovered underneath product piping during scheduled replacement work. Groundwater monitoring at the Site was initiated in 1990. In November 1994, four underground storage tanks (USTs) were removed from the Site. To treat impacted groundwater, an air sparge/soil vapor extraction system was installed in May 1995, and operated periodically from November 1996 to case closure in August 1997. In April 2004, SBC (now AT&T) requested support from the Central Valley Water Board regarding petroleum impacted manhole structures. As a result of this request, the former Exxon SS #7-0102 Case #450010 was reopened under Hilltop Gas Case #450329. Site investigations conducted in 2005, 2006, and 2012, included the installation of 14 soil borings, 11 monitoring wells, three soil vapor points, and five shallow hand auger locations. In October 2013, Central Valley Water Board met with AT&T representatives and the Discharger's consultant to discuss a remedy that would reduce impacts to the utility corridor. However, in July 2015, the State Board initiated the closure process because the Site met the Low-Threat Closure Policy. Caltrans and the Responsible Party objected to closure. Responses to comments were uploaded to the State Board's website. The State Board closed the case in September 2017.

- **Redding Beacon SS, 225 East Cypress Avenue, Redding, Shasta County**

A limited site investigation was completed in October 1998 prior to re-lining the existing underground storage tanks (USTs) at the site. Sampling results showed low levels of petroleum hydrocarbons in soil and groundwater impacts. The Central Valley Water Board became the lead agency in January 2000. Routine groundwater monitoring was initiated in November 2005. A 60-day soil vapor extraction (SVE) remediation event was conducted between June and August 2011. Approximately 9.6 pounds of total petroleum hydrocarbons were removed during the event, but the mass removal rates were low. In August and September 2015, an additional investigation was conducted to confirm plume stability. The three USTs, product delivery piping, and fuel dispensers were removed in December 2016. All confirmation soil samples were below laboratory detection limits except for one sample. Vapor intrusion risk modeling showed that residual contamination does not pose a significant health risk from vapor intrusion into the onsite structure. Currently the property is leased to Enterprise Rent-A-Car. Central Valley Water Board staff closed the Site in October 2017.

- **Boyd Trucking Company, 19476 Gas Point Road, Cottonwood, Shasta County**

From 1973 until 1994, the Discharger used nine underground storage tanks (USTs) located west of the Site's maintenance shop to store gasoline, diesel, motor oil, and waste oil. On 8 July 1994, the Discharger removed the USTs under regulatory oversight of the Shasta County Environmental Health Division (SCEHD). At the SCEHD's request, on 25 October 1994, the Discharger over-excavated additional polluted soil and collected seven confirmation soil samples. Approximately 520 cubic yards of impacted soil (an estimated 262 pounds of total petroleum hydrocarbons as diesel) were removed and disposed off-site. Soil confirmation testing indicated that the pollution had been removed to acceptable levels. The case remained open because SCEHD did not receive manifests for disposal of the USTs and stockpiled soil. Central Valley Water Board became the lead agency in March 2013. Based on the information in the above-referenced file and after verifying that the manifests were no longer available, Central Valley Water Board staff closed the case in October 2017.

- **French Gulch Store, 14198 Main Street, French Gulch, Shasta County**

From approximately 1972 until 1999, gasoline was dispensed at the Site from two underground storage tanks (USTs). On 1 February 1999, the Discharger removed the USTs under regulatory oversight of Shasta County Environmental Health Division (SCEHD). Soil samples collected from the pit floor and spoil pile were analyzed for petroleum constituents and all tested parameters were not detected above laboratory detection limits. Groundwater was not observed during the excavation. The case remained open because SCEHD did not receive manifests for disposal of tank rinseates. Central Valley Water Board became the lead agency in March 2013. Staff contacted the tank contractor who was able to locate the laboratory report and Tank Closure Certification Form, but not the manifests. The Tank Closure Certification Form indicated that the tanks were crushed flat and hauled to Shorts Scrap Iron in Redding for recycling. Central Valley Water Board staff reviewed the available information and closed the case on in October 2017.

c) **SACRAMENTO OFFICE**

- **Emerson Cardlock, 11281 Highway 88, Martell, Amador County**

The Site is currently an operating cardlock fueling facility which contains three USTs storing gasoline and diesel fuel. On 1 September 1999, Sierra Energy removed one 12,000-gallon UST and approximately 250 cubic yards of petroleum-impacted soil and pea gravel from the Site. In May 2000, Sierra Energy installed three monitoring wells (MW-1 through MW-3) and initiated routine groundwater monitoring activities. In April 2008, Sierra Energy conducted a dual-phase extraction (DPE) pilot test and removed approximately 7,900 pounds of petroleum hydrocarbons. Sierra Energy conducted several additional DPE events through October 2013, and in total, removed approximately 8,500 pounds of petroleum hydrocarbons through DPE applications. From June through July 2010, Sierra Energy installed and sampled four soil gas wells; toluene was the only petroleum hydrocarbon constituent detected, at a concentration below environmental screening levels. Sierra Energy continued groundwater monitoring through April 2015 and observed decreasing petroleum hydrocarbon concentration trends over time. Site conditions met the general and site-specific criteria for case closure under the *Policy*, and on 16 October 2017, the case was closed.

- **Chevron Station #9-4585, 2413 A Street, Antioch, Contra Costa County**

In December 1994, Chevron removed two 10,000-gallon unleaded gasoline USTs from the Site, and discovered soil and groundwater were impacted by petroleum constituents. Chevron excavated approximately 1,975 cubic yards of soil, removing approximately 10,575 pounds of petroleum hydrocarbons. A dual phase extraction (DPE) system removed approximately 105 pounds of vapor phase gasoline (TPH-G) and approximately 38,000 gallons of impacted groundwater. Surfactant enhanced free product removal recovered approximately 2,950 gallons of mixed groundwater, surfactant and free product, removing an estimated 12.8 pounds of hydrocarbons. The Site meets the general and site-specific criteria for case closure under the *Policy*, and WQOs are estimated to be met by 2051. The Site was closed on 29 August 2017.

- **Career Aviation, 6250 Lindbergh Street, Stockton, San Joaquin County**

Career Aviation removed three USTs in June 1997 from a tank farm on the Stockton Metropolitan Airport (SMA) property. SMA removed sixteen additional USTs from the tank farm between August 1987 and March 1990. Environmental investigation or remediation activities were not performed in association with the Career Aviation case; however, SMA conducted investigation and remediation activities, which met *Policy* criteria and was closed by Central Valley Water Board staff on 6 January 2016.

Given the location of the Career Aviation USTs relative to the SMA USTs, Central Valley Water Board staff concluded that petroleum hydrocarbon impact has been sufficiently assessed and that additional investigation related to Career Aviation is not warranted.

Soil was not removed, and investigation and remediation were not conducted for this case; therefore, mass removed in association with the Career Aviation case has previously been accounted for with the SMA case. The Career Aviation case was closed on 1 September 2017.

- Former Unocal 0187, 437 Miner Avenue, Stockton , San Joaquin County**

Unocal removed three USTs located south of the shop building in January 1992, along with 375 cubic yards of petroleum affected soil. Unocal conducted several phases of investigation that included soil borings, monitoring wells, vapor extraction wells, soil vapor survey wells and ozone infusion wells. Unocal removed approximately 25 pounds of petroleum hydrocarbons during a soil vapor extraction pilot test. Due to low recovery rates and limited radius of influence, Chevron did not consider the technology effective at the Site. Chevron performed ozone injection from December 2000 to April 2005 to address groundwater impacts. Based on groundwater monitoring conducted through 2012, the residual groundwater plume is defined, decreasing in concentration, expected to meet background conditions in a reasonable amount of time, and does not threaten surface water bodies or water supply wells. Remaining petroleum hydrocarbons in soil and groundwater beneath the Site should continue to degrade naturally, and pose a low threat to human health and safety and the environment. The case was closed on October 19, 2017 pursuant to the closure criteria in the *Policy*.
- Boone's Mini Mart, 10375 Live Oak Boulevard, Live Oak, Sutter County**

During November 1998, Boone's removed a 6,000-gallon and two 4,000-gallon unleaded gasoline USTs from the Site and observed petroleum-stained soil. Boone's removed approximately 800 cubic yards of petroleum hydrocarbon impacted soil and approximately 4,000 gallons of petroleum hydrocarbon impacted groundwater from the UST basin. In 2008, Boone's decommissioned the replacement tank system (two 12,000-gallon gasoline USTs) by abandoning the USTs in place by filling them with sand-cement slurry. Boone's conducted multiple phases of investigation and remediation between 1998 and 2017. Maximum on-site TPHg and MTBE concentrations during active on-site remediation were reduced from 600,000 ug/L and 220,000 ug/L, respectively, to non-detect and 1,500 ug/L, respectively. In 2014, a third party detected 74 ug/L of MTBE in a grab groundwater sample from a boring at a downgradient property. Due to a nearby domestic water supply well, Boone's installed three sentry wells at various depths immediately upgradient of the domestic well. Boone's sampled the sentry wells for four semi-annual events and did not detect petroleum constituents. Regional Board staff concurred that under reasonable anticipated near future scenarios the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame. The case was closed on 28 September 2017.
- Former P & D Union 76 Station, 85 Mono Way, Sonora, Tuolumne County**

The Site operated as a fuel service station until 1991 and is currently occupied by the Oak Valley Community Bank. In December 1991, four USTs ranging in volume from 400 to 8,000 gallons that were used to store gasoline, diesel fuel, and waste oil were removed from the site. In 1992, the former pump island, pump island piping, and an abandoned 4,000-gallon fuel UST were also removed. Approximately 26,400 cubic feet of petroleum hydrocarbon impacted soil were removed from the Site. From July 2003 to January 2009, a groundwater extraction, treatment, and reinjection system was used to remove approximately 70 pounds of total petroleum hydrocarbons from the Site. While data indicate 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 the consultant's recommendation for regulatory closure in accordance with the *Policy*. This site was closed on 29 August 2017.
- Scotty's Chevron, 13643 Mono Way, Sonora, Tuolumne County**

The Site was formerly used as Scotty's Radiator and Lube and is currently used as a tire shop. In May 1993, Scotty's removed three gasoline USTs that ranged in volume from 3,500 to 6,000 gallons. Initial soil samples collected following removal of the USTs indicated that a release of petroleum hydrocarbons had occurred. Approximately 155 cubic yards of petroleum impacted soil were excavated and removed from the Site. In October 2001, Scotty's installed a groundwater pump and treat system and a soil vapor extraction system. During October to December 2012, Scotty's operated a dual phase extraction system. From 2001 to 2013, remediation systems removed about 6,460 pounds (1,040 gallons) of petroleum hydrocarbons from the Site. 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 the consultant's recommendation for regulatory closure in accordance with the *Policy*. This site was closed on 11 October 2017.

- **Lawrence Enterprises Inc., 20743 Longe Way Road, Sonora, Tuolumne County**

The Site operated as a fuel service station from 1960 until May 1991 and is currently a vacant undeveloped light industrial zoned lot. In July and August 1992, Lawrence removed three gasoline USTs that ranged in volume from 2,000 to 6,000 gallons and approximately 1,300 cubic feet of petroleum hydrocarbon impacted soil. From 2007 to 2011, Lawrence excavated an additional 4,780 cubic yards of soil. During excavation activities two previously un-identified 1,000 gallon USTs were removed from the Site. Approximately 3,100 pounds (490 gallons) of petroleum fuel have been removed from the Site through active remediation. 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 the consultant's recommendation for regulatory closure in accordance with the *Policy*. This site was closed on 25 September 2017.

- **Adams Grain Company, Case No. 2, 1020 East Street, Woodland, Yolo County**

In 1993, Adams Grain Company (AGC) (formerly known as Adams Schwab and Adams Warehouse) removed a diesel and a gasoline USTs. AGC conducted soil and groundwater investigations from 1994 through June 2015 that indicated gasoline hydrocarbons impacted-soil to a depth of 25 feet below ground surface (bgs) and groundwater to 46 feet bgs. AGC conducted remediation that consisted of excavation of gasoline-impacted soil from the UST pit, a soil-vapor extraction test in 1995, and five 30- to 90-day high vacuum extraction/dual phase extraction events that removed approximately 13,500 pounds of gasoline hydrocarbons. Subsequent groundwater monitoring indicated the active remediation was effective at removing the bulk of the plume beneath the warehouse, and that natural attenuation processes continue. The case was closed on September 21, 2017 pursuant to the closure criteria in the *Policy*.

Former Unique Bar-B-Que, 10 12TH Street, Marysville, Yuba County

Douglas Oil, then Texaco, operated a retail fueling station at the Site from 1962 to 1981. In 1981, Texaco removed one waste oil and three gasoline USTs, associated dispensers, and then sold the property to a private party. Several private parties have owned the property since 1981, and operated the Unique Bar B-Que restaurant and then a used car business (Don's Autos) at the Site. In 1991, an investigation detected gasoline hydrocarbons in soil. In November 2016, Central Valley Water Board staff conducted an investigation of the Site and did not detect petroleum constituents in soil samples from two borings. Groundwater data from the nearby Unocal No. 2534 Site indicated groundwater beneath the Site is not impacted by residual petroleum hydrocarbons. Central Valley Water Board staff evaluated the Site for closure with the *Policy* and concluded that Site conditions meet closure criteria in the *Policy*. The case was closed on October 31, 2017.

d) **Local Agency UST Closures with Concurrence of Board Staff**

Sacramento County

- Oxbow Marina, 100 Oxbow Marina Drive, Isleton
- Western Area Power Admin, 7940 Sorento Road, Elverta

STAFF RECOGNITION

SACRAMENTO OFFICE OCTOBER 2017

Candidate: Lauren Smitherman
Unit: Mercury TMDL, Delta RMP
Title: Environmental Scientist
Supervisor: Patrick Morris

Lauren began her career with the Board in 2016 and has been assigned one of our <quote> “easier” projects- the Statewide Mercury Control Program for Reservoirs- that is, developing a TMDL for mercury-impaired reservoirs throughout the state. Lauren began working on various chapters of the staff report, concentrating on getting the 500+ page staff report completed and submitted to external scientific peer reviewers earlier this summer.

In 2016, Lauren gave a presentation to the California Lake Management Society about potential effects of climate change on mercury levels in reservoir fish. Then this past summer, Lauren created an online questionnaire to collect information from 130 reservoirs, including reservoir characteristics and current water chemistry and fisheries management practices. In October and in early November, Lauren presented a summary of the questionnaire results to reservoir owners and operators and other stakeholders at a lake managers conference at Big Bear Lake and then again at CalEPA. Lauren is using information provided by the reservoir owners to help group reservoirs into different categories that might be amendable to water chemistry and fisheries pilot tests designed to reduce mercury levels in fish.

In addition, Lauren has been working with the City of San Diego on a pilot project to test aerating a reservoir to reduce nutrient problems and reduce mercury methylation. This includes working with the City on their sampling plan and QAPP for water, fish, and sediment mercury sampling. This work in San Diego may translate to control options for some Central Valley reservoirs.

Lauren’s calm demeanor and enthusiasm to work on a complex and innovative project has been a great asset to the Mercury TMDL Unit. For all of her work, Lauren truly deserves the recognition of outstanding employee

Candidate: Jennifer Haynes-White
Unit: Confined Animal Facilities
Title: Environmental Scientist
Supervisor: Charlene Herbst

Jennifer has worked as an Environmental Scientist in the Confined Animal Facilities Unit since 2012, and in the past six years has done an excellent job on a variety of assignments, including inspections, enforcement actions, and the evaluation of annual reports. Her initiative, organizational skills, and technical competence in the complex issues involved in regulating confined animal facilities make her a very valuable employee. Most recently, Jennifer played an important role in the adoption of a General Order for Bovine Operations at the June 2017 Board Meeting. Jenn helped collate comments on the draft order and prepare responses, edited and proofread draft versions of the Order, and helped prepare a variety of materials for the Board meeting. Her willingness to take on additional tasks relative to this important Order, in addition to her regular workload, contributed greatly to the successful completion of the Bovine General Order.

Jenn’s intelligence, thoroughness, and willingness to tackle new assignments make her an outstanding asset to the Confined Animal Facilities Unit and very deserving of this award.

**FRESNO OFFICE
OCTOBER, 2017**

Candidate: Alex Mushegan
Unit: NPDES Permitting/Waste Discharge to Land
Title: Water Resource Control Engineer
Supervisor: Matt Scroggins

Alex is being recognized for his outstanding contributions to the NPDES Permitting and Waste Discharge to Land units. Alex has a well-established history of going above and beyond in his contributions to the NPDES program, as evidenced by the several previous Employee Recognition Awards and the Superior Accomplishment Award he has received. In addition to his continued good work in the NPDES Program, Alex has recently been assisting the Waste Discharge to Land permitting unit due to staff assignment shifts resulting from Lonnie Wass' retirement. Alex has been instrumental in ensuring the work flow continues as smoothly as possible during this resource-constrained time. Alex gladly accepted this challenge and quickly came up to speed on the program issues.

Alex has established himself as a "go to" staff person and sets a great example for the office. His professionalism, judgment, work ethic, and attitude are highly valued, and his dedication to the Board's mission is greatly appreciated.

**REDDING
OCTOBER, 2017**

Candidate: Debbie Behnke
Unit: Administration Unit
Title: Seasonal Clerk
Supervisor: Clint Snyder

Debbie is being nominated for her contributions to the Redding office. Debbie, a retired school teacher and administrator joined the Board as a seasonal clerk just a few months before Lauria Molitoris, the office's only administrative staff retired on August 1, 2017. Debbie quickly got up to speed on nearly all of the administrative responsibilities and was able to fulfill the most critical tasks until Courtney Kasich, the offices new Office Technician began her employment on October 23rd.

Debbie has proven to be meticulous in her review and processing of staff correspondence; has developed productive relationships with Rancho Cordova administrative and IT staffs; and is appreciated and respected by Redding staffs. Debbie is punctual, professional, and always pleasant. She has been instrumental in training Courtney in her new role as Office Technician.

We truly appreciate all that Debbie brings to the office. Her efforts made a potentially challenging situation nearly seamless. Debbie is very deserving of this recognition

**SACRAMENTO OFFICE
NOVEMBER, 2017**

Candidate: Nicholas White
Unit: Water Quality Certifications
Title: Water Resource Control Engineer
Supervisor: Elizabeth Lee

Nicholas is a Water Resource Control Engineer in the Sacramento Water Quality Certifications Unit. Nicholas has been with the Water Quality Certifications Unit since May 2017. Nicholas exhibits a high level of organization, customer service, and knowledge in water quality. Nicholas currently processes an average of 8 Certification applications a month, which is almost issuing a Certification every other day. He also communicates well with applicants and interested parties during the development of Certifications, and coordinates well with staff in other

sections of our office and outside agencies. When assigned to complete a Certification within a short time frame, Nicholas does so with a willing and positive attitude.

In addition to processing Certification applications, Nicholas also conducts field inspections for projects enrolled in the Construction Storm Water General Permit that also have Certifications with our Construction Storm Water staff. If necessary, he has taken steps towards enforcement for projects that are not in compliance or have not received a Certification. In addition, Nicholas assists with dredging and municipal storm water work, and represents Region 5 at the Corps of Engineers monthly pre-application meetings.

His work productivity and strong commitment to customer service, as well as his “can-do” attitude, makes him a valuable member of the Certification unit and the organization, and is deserving of the Employee of the Month Award.

**REDDING OFFICE
NOVEMBER, 2017**

Candidate: Stacy Gotham
Unit: Groundwater Unit
Title: Water Resource Control Engineer
Supervisor: Kate Burger

Stacy is being nominated for her contributions to the Redding office’s Groundwater Unit which she joined in May. She has been with the Central Valley Water Board for approximately 18 years and has worked in multiple programs.

With the pivot to the Groundwater Unit, Stacy became the lead staff for the Mines Program, managing 21 active and abandoned mine sites. We knew coming up to speed on the mines sites would pose quite a challenge because the Redding office has been without a lead staff for the mine sites for multiple years. However, Stacy completed her transition to the Mines Program much more quickly than anticipated. During the fiercely hot summer field season, Stacy completed 14 inspections of mine sites managed by the Redding office and assisted Rancho Cordova staff with a Walker Mine inspection. These inspections enabled her to rapidly come up to speed on mining-related issues and key mine sites within Shasta County’s Copper Crescent.

Stacy has been using her exceptional analytical skills to evaluate available water quality data for the mine sites. She has used her findings to support colleagues working on a non-15 permit for one of the mine sites. Stacy is also using her findings to bring fresh ideas on long-term management of mine-influenced waters reaching Shasta Lake.

Stacy worked with the owner of an active gold mine in Shasta County to complete the relocation of historic mill tailings to a lined waste management unit prior to the 2017 wet season. These tailings posed a slope stability hazard and a threat to water quality due to the arsenic concentration present in the material. The mine had been directed to complete movement of the tailings by 2015, but had been delayed by financial and administrative constraints. Because of Stacy’s persistence, the owner completed the final transfer of tailings in September 2017.

Stacy is a welcome addition to the Groundwater Unit and has generously shared her wealth of knowledge of the Water Board programs with her unit members.

**FRESNO OFFICE
NOVEMBER, 2017**

Candidate: Josh Mahoney
Unit: Oil Field Pond Unit
Title: Water Resources Control Engineer
Supervisor: Ron Holcomb

Josh has worked in the Oil Field Pond Unit since 2014. His organizational abilities, his operational knowledge of our software and databases, and his willingness to take on difficult and complicated tasks help to make him a

valuable member of our team. In October, Josh was able to prepare a Notice of Applicability (NOA) for coverage of a discharge under State Board's General Waste Discharge Requirements for Discharges to Land With a Low Threat to Water Quality. Josh also prepared under compressed timelines, a Notice of Public Hearing and a tentative Order proposing to modify existing enforcement order for the Board's consideration in December. Additionally, Josh keeps track of the drilling mud discharge Notices of Intent (NOIs), NOAs, and monitoring and reporting programs. He also works with other staff in our unit to help keep the California Integrated Water Quality System database up to date; and works on food safety issues related to irrigation with produced wastewater.

Josh enjoys his work and approaches his assigned tasks with a good attitude and cheerful demeanor. His consistent performance is appreciated and he is deserving of this recognition.

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 Offer'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) notable enforcement actions; 2) a summary of orders issued; and, 3) a summary of all enforcement actions issued.

1) Notable Enforcement Efforts – This section provides information on Central Valley Regional Water Quality Control Board efforts that are noteworthy but may not otherwise be included in the other sections of this report.

Off-Property Discharges at Confined Animal Facilities

Staff participated with the Stanislaus County District Attorney's office and California Department of Fish and Wildlife in settlement conferences for two off-property discharge cases. In one case, water discharged through a mixing box at the Nature's Clover Dairy into the Mootz Drain. Because of the discharger was in bankruptcy, the fine was relatively small at \$2,500. The other case was at the Manuel Furtado Dairy #1 where dairy wastewater discharged off cropland and into a canal that is tributary to Dry Creek and the Tuolumne River. The fine in this case was \$10,000.

The Merced County District Attorney's office has filed a criminal complaint against the operators of the Den-K Holsteins heifer operation in Los Banos for the willful pumping of wastewater from corrals into a drain that is tributary to Salt Slough. Staff assisted Department of Fish and Wildlife wardens in the investigation of the complaint, and are continuing to work with the District Attorney as the case proceeds.

2) 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; 13267 Investigative Orders; and Administrative Civil Liability Complaints and 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 Table 1 – Region 5 Enforcement Orders (16 September 2017 through 7 November 2017)

Date	Agency	County	Notes
9/18/2017	Rene Larranaga	Modoc	Administrative Civil Liability (ACL) Complaint R5-2017-0553 issued in the amount of \$30,758 for failure to submit a Report of Waste Discharge (RoWD) as required by California Water Code Section 13260.
9/22/2017	City of Merced	Merced	ACL Order R5-2017-0533 settled by stipulated agreement in the amount of \$57,000 to satisfy 19 minimum mandatory penalty (MMP) violations.

Enforcement Table 1 (cont.)

Date	Agency	County	Notes
9/27/2017	City of Stockton	San Joaquin	ACL Complaint R5-2017-0545 issued in the amount of \$3,000 for one MMP violation occurring between 1 January 2016 and 30 June 2017 and settled by payment.
10/2/2017	Lake Berryessa Resort Improvement District	Napa	Time Schedule Order (TSO) R5-2017-0901 requiring Lake Berryessa Resort Improvement District to comply with Waste Discharge Requirements R5-2013-0114.
10/3/2017	City of Davis	Yolo	ACL Complaint R5-2017-5047 issued in the amount of \$21,000 for seven MMP violations occurring between 1 July 2016 and 30 June 2017 and settled by payment.
10/4/2017	California Department of Corrections and Rehabilitation	San Joaquin	ACL Complaint R5-2017-0550 issued in the amount of \$15,000 for five total coliform MMP violations occurring between 1 February 2017 and 30 June 2017 and settled by payment.
10/17/2017	Constellation Wines US Operations, Inc. (dba Woodbridge Winery)	San Joaquin	ACL Complaint R5-2017-0552 issued in the amount of \$36,000 for 12 MMP violations occurring between 29 March 2011 and 30 June 2017 and settled by payment. The complaint alleged six biochemical oxygen demand and six total suspended solids effluent violations.
10/20/2017	Lawrence Gasper	Shasta	ACL Order R5-2017-0102 replaces ACL Complaint R5-2017-0543 for failure to comply with Cleanup and Abatement Order R5-2015-0711. The ACL Order was adopted by the Central Valley Water Board in the amount of \$143,640.
10/20/2017	Mariposa Public Utility District	Mariposa	TSO R5-2017-0105 requiring Mariposa Public Utility District to comply with the requirements prescribed in Order R5-2014-0042 (NPDES Permit No. CA0079430).
10/23/2017	Homestake Mining Company	Yolo	Cleanup and Abatement Order (CAO) R5-2017-0710 issued to Homestake Mining for cleanup and abatement of mercury mining wastes associated with the Reed Mine and to prevent further erosion and impact to surface waters.
10/30/2017	Jose and Maria Mendonca	Merced	California Water Code Section 13267 Letter/Order issued for failure to comply with the Reissued Waste Discharge General Order for Existing Milk Cow Dairies, Order RS-2013-0122 (Reissued Dairy General Order) and accompanying Monitoring and Reporting Program (MRP).

Enforcement Table 1 (cont.)

Date	Agency	County	Notes
10/30/2017	Hillside Farms	Merced	California Water Code Section 13267 Letter/Order issued for failure to maintain membership in the Central Valley Dairy Representative Monitoring Program (CVDRMP).
10/30/2017	Keith Moss	Merced	California Water Code Section 13267 Letter/Order issued for failure to comply with the Reissued Dairy General Order and accompanying MRP.
10/31/2017	City of Modesto	Stanislaus	ACL Complaint R5-2017-0551 issued in the amount of \$165,000 for 55 total coliform MMP violations that occurred between 1 April 2013 and 30 June 2017. The Complaint was settled by payment.

3) Enforcement Update – Enforcement Table 2, 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 50% of all the enforcement actions tracked in CIWQS during this period including 40% of all NOV's and 31% of all ACLs.

Enforcement Table 2 – Statewide Enforcement Actions (16 September 2017 through 7 November 2017)

Region	VER	SEL	NOV	13267	NNC	NTC	TSO	CAO	EPL	ACL	Total
1	0	0	0	0	0	0	1	0	0	1	2
2	6	32	0	0	0	0	0	0	0	7	45
3	4	1	6	0	10	0	0	0	0	0	21
4	2	0	44	0	68	3	1	0	3	10	131
5F	0	0	16	0	0	0	1	0	0	1	18
5R	2	0	5	0	0	0	0	0	0	1	8
5S	4	1	27	3	323	0	1	1	0	6	366
RBS Total	6	1	48	3	323	0	2	1	0	8	392
6	6	2	0	0	1	0	0	0	0	0	9
7	0	1	0	0	0	0	0	0	0	0	1
8	8	3	1	0	134	0	0	0	1	0	147
9	1	17	21	0	0	0	0	0	0	0	39
Total	33	57	120	3	536	3	4	1	4	26	787

Enforcement Actions:

VER = Verbal Communication

SEL = Staff Enforcement Letter

NOV = Notice of Violation

13267 = Water Code Section 13267 Investigative Order

NNC = Notice of Non-Compliance (Stormwater)

NTC = Notice to Comply

TSO = Time Schedule Order

CAO = Cleanup and Abatement Order

EPL = Expedited Payment Letter

ACL = Administrative Civil Liability

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 2017-2018 performance targets

http://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf.

Below is the Region 5 Performance Measurement Summary for the 2017-18 fiscal year. This report was produced with data through 35% of the current fiscal year.

Region 5 Performance Measurement Summary from 1 July 2017 through 7 November 2017						
Programs	Original Target	* Actuals: Permits or Facilities Inspected	% Complete = Actuals/Original Target	Revised Target	** Total # of Inspections Performed	Comments
NPDES Wastewater						
Major Individual Permits Issued, Revised, and Renewed	9	2	22%	n/a	n/a	
Major Individual Facilities Inspected	27	10	37%	n/a	13	
Minor Individual Permits Issued, Revised, and Renewed	8	4	50%	n/a	n/a	
Minor Individual Facilities Inspected	6	3	50%	n/a	3	
Minor General Enrollees Facilities Inspected	0	0	N/A	n/a	0	
Waste Discharge to Land – Wastewater						
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	25	11	44%	n/a	n/a	
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	170	73	46%	n/a	78	
Land Disposal						
Landfills Permits Issued, Revised, and Renewed	11	1	9%	n/a	n/a	Several permits are in the process of being completed.
Landfill Inspections	93	50	58%	n/a	54	The inspection target is reflective of the previous fiscal year's number of inspections conducted. RB Staff are exceeding inspection goals so far to date and the target may need to be modified accordingly.
All Other Permits Issued, Revised, and Renewed	2	0	0%	n/a	n/a	Enrollees in the Composting General Order (WQ-2015-0121) were inadvertently included in the performance report in the draft update. Those entries have been omitted for this revised report. The target facilities are two sites in the Mines program.
All Other Inspections	26	16	65%	n/a	17	The inspection target is reflective of the previous fiscal year's number of inspections conducted. RB Staff are exceeding inspection goals so far to date and the target may need to be modified accordingly.
NPDES Storm Water						
Stormwater Construction Inspections	385	106	29%	n/a	110	
Stormwater Industrial Inspections	195	46	24%	n/a	46	
Stormwater Municipal Inspections	0	1	N/A	n/a	1	
Other Programs						
Forest Activities Inspections	166	21	13%	n/a	21	
Confined Animal Facility Inspections	325	66	21%	n/a	67	
Clean Up						
New DoD Sites Into Active Remediation	9	2	22%	n/a	n/a	
New SCP Sites Into Active Remediation	80	13	16%	n/a	n/a	
Cleanup Program Sites Closed	64	14	22%	n/a	n/a	
New UST Sites Into Active Remediation	29	14	48%	n/a	n/a	
Underground Storage Tank Sites Closed	80	46	58%	n/a	n/a	
* Actuals: Number of facilities inspected or permits issued.						
** Total #: Number of inspections completed including all reinspections.						

SANITARY SEWER OVERFLOWS, COMPLAINTS AND SPILLS

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

There was one SSO event in excess of 50,000-gallons in the months of August and September of 2017.

Selma Kingsburg Fowler Collection System, Fresno County – 71,423 gallon spill

On 4 September 2017 a power surge knocked out the power supply to the head-works programmable logic controller at the wastewater treatment plant (WWTP). CSD staff determined that flow backed-up to an abandoned 18-inch sewer gravity main line resulting in a spill to both sides of McCall Avenue between Clarkson and Conejo. Within approximately 45 minutes CSD staff arrived at the spill location and measured the released volume to be 71,423 gallons using a roller wheel and measuring tape. CSD staff determined that 60,718 gallons were recovered and surface waters were not impacted. CSD staff opened the equalization valve draining the head-works and relieving pressure to the backed up lines. Following clean-up activities at the spill location, spill response was completed within two hours. CSD staff are installing transducer monitoring devices throughout the district inside the sewer man-holes to mitigate the potential for future overflows.

For this reporting period, there were **173** total SSO spills: **12** Category 1, **7** Category 2, and **154** 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. 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. The 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 **355** complaints from phone calls, emails, and from the CalEPA Complaint database (<https://calepacomplaints.secure.force.com/complaints/>). To date, **299 (84%)** complaints have been investigated and closed, or referred to another environmental enforcement agency. Investigations for the remaining **56** complaints remain ongoing.

Euclid/Sun Pacific Packing, Porterville, Tulare County

Water Board staff received a 15 September 2017 complaint of process wastewater discharging from the packinghouse (which is under Waste Discharge Requirements) to the complainant's property, a parcel of former railroad right-of-way across a county road from the packinghouse. Staff inspected the packinghouse on 21 September 2017 and subsequently concluded that ancillary discharge of process wastewater to the complainant's property had occurred and threatens to continue to occur. Staff issued a 2 November 2017 Notice of Violation, along with the facility inspection report, requesting the discharger submit a plan/schedule for return to compliance with the WDRs and for a workplan for assessment of impacts to the complainant's property due to historic process wastewater discharge in violation of the WDRs. The complainant subsequently reported on-going process wastewater discharge from the packinghouse and staff responded with a second inspection with water sampling. Staff has scheduled a meeting with the discharger to ensure they understand pertinent regulatory requirements and available enforcement options, and to gauge the discharger's progress toward compliance. The complainant is receiving copies of Central Valley Water Board correspondence and status updates upon request.

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, California Department of Public Health, the Delta Conservancy, and the Office of Environmental Health Hazard Assessment. 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.

The MERP Steering Committee meets bi-monthly to coordinate the implementation of various components in the 2017 Activity Plan. Posting of the new advisory signs developed by MERP for the Delta is currently underway. Over 25 signs are now posted at various locations in the Delta. Staff is currently coordinating with stakeholders who will be responsible for maintaining some of the sign-posting locations.

On 8 October 2017, the California Indian Environmental Alliance (CIEA) conducted a “Eat Fish Safely” MERP funded training for Women Infant and Children (WIC) program staff in Contra Costa County. This training will be highly effective in reaching many in the community most at risk. The class will be followed the “train-the-trainer” model that teaches key staff in each of the four WIC clinics located in several counties who will then return to their respective clinic and train additional WIC staff. The WIC director and staff gave positive feedback after the training and requested over 5,000 copies of the “Eat Fish Safely” brochure to share with women and children over the next year through focused classes about mercury exposure.

2. **Delta Methylmercury Control Program**

Methylmercury Control Studies

The Delta Mercury Control Program (DMCP) Phase 1 (2011 – 2018) requires responsible entities to evaluate methods to control methylmercury to achieve load and waste load allocations. The studies encompass a variety of source types, including municipal wastewater treatment plants, urban and industrial stormwater discharges, dredging operations, tidal wetlands, and open water habitats. Progress reports for these studies were submitted to the Regional Board and provided to the Delta mercury independent Technical Advisory Committee (TAC) for review and comment. The reports sent to the TAC were from the Central Valley Clean Water Association, Deuel Vocational Institution, and the Sacramento Stormwater Quality Partnership (SSQP). These three reports were submitted for the TAC review due to work plan modification proposals and/or the studies being close to completion. TAC comments regarding these studies have been received by staff and are currently under review. Results of the TAC and staff reviews will be provided to the entities. More information about the control studies is at:

https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/delta_hg/control_studies/index.shtml

The responsible entities for the methylmercury control studies all expect to provide a final report of their studies by the October 2018 deadline. Two exceptions are the Open Water Workgroup study and the Tidal Wetlands study; both were granted an extension until December 2019. Staff will begin review of the DMCP in 2018.

Cache Creek Settling Basin

In addition to studies specific to methylmercury control, the DMCP requires the Department of Water Resources (DWR), Central Valley Flood Protection Board, and U.S. Army Corp of Engineers (USACE) to develop a plan to reduce loads of mercury leaving the Cache Creek Settling Basin (CCSB). The DMCP has five requirements for development of the plan. DWR has completed the first four requirements, including submittal of a strategy to reduce total mercury from the CCSB and a report containing a summary of methylmercury studies DWR conducted, the environmental benefits and costs of sustaining the trapping efficiency of the CCSB, and an evaluation of the feasible alternatives to reduce mercury loads from the CCSB.

The fifth requirement is a detailed plan for improvements to the settling basin to decrease mercury loads from the basin, due October 2017. However, flood related projects are currently being conducted in the region and will influence which improvements are chosen for the CCSB. In October 2017, the Executive Officer granted an extension for submittal of the CCSB improvement plan. The revised due date is contingent on the completion of USACE and other flood improvement related projects in the region as well as USACE procurement of federal authorization to modify the CCSB. During this extension period, responsible entities will update the Regional Board on the progress of those flood related studies annually, as well as provide updates on the additional progress of the DWR studies regarding CCSB improvements.

Seasonal Wetlands Study

One of the methylmercury control studies, the U.S. Geological Survey and U.S. Bureau of Land Management project "Mercury on a Landscape Scale: Balancing Regional Exports with Wildlife Health" was completed, with a final report submitted to the Regional Board in June 2017. This study involved methylmercury management in seasonal wetlands in the Cosumnes River Preserve, and evaluated the effectiveness of different flow regimes and deep polishing ponds in reducing mercury and methylmercury exported by the wetlands. The study showed that the deep ponds reduced loads of methylmercury discharge by an average of 37%, compared with control wetlands. This project was funded by a 2013 Clean Water Act 319(h) Implementation grant.

3. Delta Regional Monitoring Program (RMP)

The Technical Advisory Committee (TAC) met on 21 September 2017 to discuss revisions to the draft Year 1 Pesticides Data Report: Annual Monitoring Report FY 2015/16 – Pesticides. Additional pesticide subcommittee meetings were held in September to develop a decision matrix and prioritization criteria for evaluating this year's current use pesticides and toxicity monitoring proposals.

On 24 October 2017, the Steering Committee and TAC met at their annual joint meeting to discuss: the schedule for the Delta Science Action Agenda and Delta Science Plan Update; strategies for monitoring contaminants of emerging concern (CEC); a decision grid to be applied to pesticides monitoring proposals; the conflict of interest policy for the program; and monitoring priorities for FY18/19 and onwards. The identified priorities, in order of importance are: mercury monitoring (to inform the upcoming TMDL update scheduled for 2020), nutrients monitoring (in alignment with Region 5's Nutrient Research Plan development), pesticides monitoring, and CECs.

During the Nutrient Subcommittee call on 29 September 2017, the group reviewed the two draft synthesis reports prepared by the Aquatic Science Center (ASC). The group provided comments on the reports and recommended that the TAC review the revised reports. The latest drafts of the reports and all of the data files from the nutrient modeling synthesis report and the boxplots from the status and trends report are now accessible to Delta RMP participants on ASC's TAC website. Once the Steering Committee approves the draft reports, the final reports and data will be posted on the RMP's website.

Delta RMP Nutrient Subcommittee members also participated in a planning meeting for a Chlorophyll Sensor Intercalibration Study in the Bay-Delta. The Bay RMP and Delta RMP are collaborating on the initial phase of this study. The group discussed strawman study questions and possible short-term and long-term goals for the project.

4. Delta Nutrient Research Plan

- Staff is developing the Delta Nutrient Research Plan. Release of a draft for review by stakeholders is scheduled for November.
- Staff is developing a contract agreement to expand nutrient modeling efforts for San Francisco and Suisun Bays into the Delta. White papers written as background to the Nutrient Research Plan pointed to the need for computer modeling of nutrients and related processes.

Project information, including Staff's presentation to the Central Valley Water Board in August, meeting materials, and white papers are available on the Delta Nutrient Research Plan website:

https://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/delta_nutrient_research_plan/

5. **Statewide Mercury Control Program for Reservoirs**

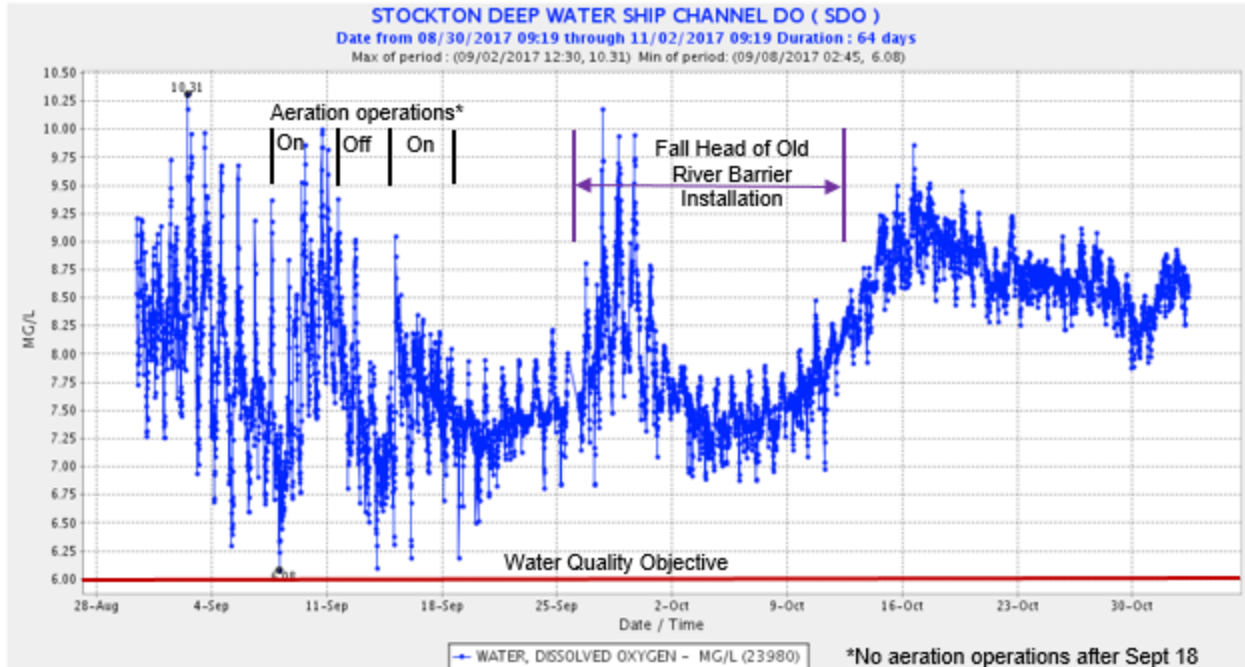
In late June 2017, staff distributed a questionnaire to the owners and operators of 132 mercury-impaired reservoirs throughout California to gather information regarding the reservoir characteristics and current strategies for water chemistry and fisheries management practices. These responses will assist in the binning of reservoirs into categories for pilot tests in phase I of the Program. The questionnaire results were presented at reservoir stakeholder meetings held in Big Bear Lake, California on 11 October and at the Cal/EPA building in Sacramento on 2 November. In addition, we discussed potential reservoir methylation controls. The focus of the reservoir owner and operator meetings is to look for opportunities for coordination and collaboration among the entities to develop and implement well-structured and effective pilot tests. Staff is currently summarizing the questionnaire responses and will be producing a report. To view the questions in this questionnaire as well as the draft staff report and Provisions, visit http://www.waterboards.ca.gov/water_issues/programs/mercury/reservoirs/.

6. **San Joaquin River Dissolved Oxygen TMDL Implementation – Aeration Facility**

Dissolved oxygen and other water quality parameters in the Stockton Deep Water Ship Channel (dredged portion of the San Joaquin River) are measured at the Department of Water Resources Rough and Ready Island water quality monitoring station. When dissolved oxygen concentrations fall below the dissolved oxygen water quality objective, the Port of Stockton operates an aeration device located on Rough & Ready Island that increases dissolved oxygen concentrations in the river.

In September, the dissolved oxygen water quality objective from Turner Cut to Stockton increased from 5.0 mg/L to 6.0 mg/L. This objective is in effect through November 30. In early September, dissolved oxygen concentrations began trending downward toward 6.0 mg/L. In response to that downward trend, the Port of Stockton turned on both aerator pumps starting on September 8. The Port of Stockton continued aeration operations intermittently and then ceased operations on September 18 to observe how dissolved oxygen concentrations responded. On September 20, the Port's contractor and Water Board staff became aware of a revision to the "provisional" dissolved oxygen data shown on the Rough and Ready Island monitoring station CDEC website. The data change was a result of a fault in the primary surface sonde (water quality monitoring device). Data from a back-up surface sonde were used and the data shown on the website were corrected back to September 5. The revised data indicated that dissolved oxygen concentrations were higher than previously shown and aerator operations were not necessary. With this new information, the Port's contractor decided to discontinue aeration operations. The aerator has not been operated since September 18.

On September 20, the California Department of Fish and Wildlife officially requested the Department of Water Resources to install the fall Head of Old River rock barrier. The barrier is designed to increase the flow of San Joaquin River water down the main stem of the San Joaquin River, and to increase dissolved oxygen levels downstream in the channel. The increased flow and dissolved oxygen concentrations support the migration of fall-run Chinook salmon upstream to spawning sites in the Stanislaus, Tuolumne and Merced Rivers. Construction began on September 26 and closure was completed on October 13. In mid-October, dissolved oxygen concentrations began increasing above 7.5 mg/L, and by early November, dissolved oxygen concentrations were above 8.0 mg/L. The figure below shows the dissolved oxygen concentrations measured 1 meter below the surface at Rough and Ready Island from August 30 through November 01, including the periods of aeration operation and installation of the fall Head of Old River barrier.



7. Old and Middle River Dissolved Oxygen

On 12 October, Adam Laputz, Janis Cooke and Danny McClure were taken by Department of Water Resources (DWR) staff on a boat tour in and around Old and Middle Rivers and the temporary barriers in the South Delta. DWR annually installs temporary rock barriers in this area to enhance fish passage in the San Joaquin River and water levels for local agricultural diversions. The segments in Old and Middle where these barriers are installed also have low dissolved oxygen impairments due to a number of factors, which staff are working to assess.

TMDL BASIN PLANNING

1. Pesticide Basin Planning/TMDLs

Central Valley Pyrethroids Basin Plan Amendment and TMDL

On 3 October, the State Water Board released a notice of opportunity to comment for the proposed State Water Board approval of the Central Valley Pyrethroids TMDL and Basin Plan Amendment, which was adopted by the Central Valley Water Board on 8 June. The State Water Board's comment period ended on 2 November and seven comment letters were received. The notice and comment letters are available at https://www.waterboards.ca.gov/public_notices/comments/

The State Water Board is expected to consider approval of this Basin Plan Amendment in March or April 2017. The timing of State Water Board consideration of this item is being coordinated with the timing for State Water Board consideration of the Central Coast Water Board's Lower Salinas River Watershed Sediment Toxicity and Pyrethroids in Sediment TMDLs so that the State Water Board can consider approval of both of these items at the same meeting.

2. 2018 Integrated Report

The Integrated Report includes surface water quality data assessments and Clean Water Act Section 303(d) listing recommendations (identification of impaired water bodies). The "Notice of Public Solicitation of Water Quality Data and Information for the 2018 California Integrated Report – Clean Water Act Sections 305(b) and 303(d)" was released on 3 November 2016. The solicitation period closed 3 May 2017. Staff will release their initial evaluation of the submitted data in 2018. Any data submitted after May 3rd will be considered in the 2020 cycle assessments. The current 2014 Integrated Report for the Central Valley Region was approved by the State Water Board on 3 October 2017 and is available at the following website: https://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2014_2016.shtml

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 hearing. Final copies of the SNMP and related policy documents can be found at:

<http://www.cvsalinity.org/index.php/docs/central-valley-snmp/final-snmp.html>

Staff is continuing to work internally with Program Managers and externally with CV-SALTS stakeholders to draft Basin Plan amendment language and identify any additional environmental, economic and/or anti-degradation documentation needed for the recommended policies, strategies and guidance. Initial drafts of the proposed amendment are anticipated to be available for release during the fall with a public workshop tentatively scheduled for January 2018.

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 to approve the BPA is tentatively scheduled for 9 January 2018.

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

A brief summary of all CV-SALTS technical projects can be found under the CV-SALTS website at:

<http://www.cvsalinity.org/index.php/committees/technical-advisory/technical-projects-index.html>

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 approve the BPA is tentatively scheduled for 9 January 2018.

More information on the project can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/index.shtml

Dedesignation of Municipal and Domestic Supply (MUN) and Agricultural Supply (AGR) Beneficial Uses in a Discrete Portion of the Tulare Lake Bed Groundwater Basin

On 6 September 2017, the State Water Board approved the Basin Plan Amendment adopted by the Central Valley Water Board to dedesignate MUN and AGR in a vertically and horizontally defined portion of the Tulare Lake Bed groundwater basin. The amendment will become effective after approval by the Office of Administrative Law.

More information on the project can be found at:

http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/tulare_lakebed_mun_evaluation/index.shtml

CV-SALTS Meeting Participation

On 28 September, Anne Littlejohn, Patrick Pulupa and Jeanne Chilcott participated in a CV-SALTS small working group to draft Basin Plan amendment language for the proposed salinity management strategy.

On 6 October, Anne Littlejohn, Jeanne Chilcott, Cindy Au Yeung, and True Khang met with several water purveyor representatives including City and County of Sacramento, Contra Costa Water Agency, and California Urban Water Users (CUWA) to discuss potential alternatives to the CV-SALTS proposed Secondary Maximum Contaminant Level (SMCL) Policy.

On 10 October, Glenn Meeks and Walter Plachta participated in the CV-SALTS Public Education and Outreach Committee meetings to discuss outreach material.

On 11 and 12 October, Jeanne Chilcott, Pamela Creedon, Patrick Pulupa, Walter Plachta, Anne Littlejohn and Glenn Meeks participated in the CV-SALTS Executive Committee meeting. Discussions focused on the latest, revised, draft basin plan amendment language for the salt management strategy (Program for Control and Permitting of Salinity Discharges in the Sacramento-San Joaquin River and Tulare Lake Basin) and the nitrate permitting strategy (Program for Control and Permitting of Nitrate Discharges to Groundwater).

On 17 October, Jeanne Chilcott, Glenn Meeks and Patrick Pulupa presented at a State Water Board hearing to obtain approval of a resolution to change the remaining \$499, 588.00 of Cleanup and Abatement Account funds used by CV-SALTS for SNMP development to a grant to support early implementation and pilot SNMP salt and nitrate strategies. State Board approved the resolution after a slight modification to the proposed grant scope of work to address Environmental Justice Community issues related to management zones.

On 30 October, Anne Littlejohn, Jeanne Chilcott, True Khang and Patrick Pulupa met with representatives from the CV-SALTS Executive Committee and water purveyors to discuss alternative SMCL language proposed by the water purveyors.

2. **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 25 September 2017. Nigel Quinn representing USBR provided a summary of equipment needs for the Real-Time Salinity Management Program (RTMP) monitoring stations. Sources of funding for the equipment were briefly discussed, such as inclusion under a potential Proposition 84 grant. Joe McGahan representing the Westside Coalition stressed the importance of including the Lower San Joaquin River Committee in discussions and actions of the RTMP.

Board staff described the electrical conductivity water quality objectives adopted in June for the Lower San Joaquin River upstream of Vernalis, how the objectives were derived, and how they will be implemented through third-party groups. Staff clarified that the Salt and Boron TMDL, approved in 2006 to meet salinity water quality objectives at Vernalis (Delta boundary), would not change. USBR staff gave a presentation showing how the adopted electrical conductivity objectives must work in tandem with the previously approved TMDL to assure compliance of the Vernalis water quality objectives.

NPDES

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 2017 and 31 October 2017.

NPDES Table 1

Facility	General NPDES Permit Number	General Permit Name
Carson Hill Gold Mine Project	R5-2016-0076-014	General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Waters
Recology Hay Road Landfill Dewatering Project	R5-2016-0076-012	
Ice House Reservoir Auxiliary Dam Project	R5-2016-0076-013	
Contra Costa Communities, LLC; Gilbert Property Construction Dewatering Project	R5-2016-0076-017	

Storm Water

On 23 October 2017, a fish kill in Marsh Creek, located in between the Cities of Brentwood and Oakley was reported to the Central Valley Water Board immediately following a small, first flush, rain event (0.15-inch). There were approximately 500 dead fish in Marsh Creek which is the receiving water for the Cities of Brentwood and Oakley's municipal separate storm sewer system (MS4). California Department of Fish and Wildlife (CDFW) conducted an investigation at Marsh Creek, however no fish or water samples were collected due to the extended length of time from the occurrence to when CDFW staff arrived. Water quality sampling taken by CDFW staff on 26 October 2017 was normal (temperature: 22°C, conductivity 1500 µs/cm, and dissolved oxygen: 8.85 mg/L). Staff from the City of Brentwood's wastewater treatment plant (WWTP) have committed to sampling for pH, dissolved oxygen, temperature, chlorine, and ammonia upstream and downstream of the WWTP's outfall and at the MS4's outfall if flow is present during future rain events or immediately after.

On 24 October 2017, a fish kill was also reported in Morrison Creek, located in the City of Sacramento following a small, first flush, rain event (0.15-inch). The 24 October 2017 fish kill resulted in hundreds of dead fish. Morrison Creek is the receiving water for the City of Sacramento's MS4. City of Sacramento and Sacramento Regional County Sanitation District (Regional San) staff conducted the investigation following the event. Regional San staff collected and analyzed water samples from 3 sites upstream and 4 sites downstream of the MS4 discharge near Sump 89 over 4 days (10/24/17 – 10/27/17). The samples were analyzed for acute toxicity, biochemical oxygen demand (BOD) and chemical oxygen demand (COD). The results for acute toxicity did not indicate any toxicity when compared to baseline information.

The results are summarized in toxic units below:

Sample Location	5 minutes TU(EC10)	15 minutes TU(EC10)
Downstream of MS4 Discharge (2 sites)	<1.1	1.2
Upstream of MS4 Discharge (3 sites)	<1.1	<1.1

The BOD and COD were high in areas downstream of the Sump 89 where the dissolved oxygen readings were low or falling. The results for the day the fish kill was reported are summarized below:

Sample Location	Sample ID	Dissolved Oxygen (mg/L)	COD (mg/L)	BOD (mg/L)
Upstream of MS4 Discharge	MU1A	6.82	15	6.4
	BM-14	7.22	75	7.1
	BM-13	6.87	10	<2
Downstream of MS4 Discharge	M2-A	3.95	193	55
	BM-1	1.79	85	23

Regional San staff continue to make visual observations along Morrison Creek. Regional Water Board staff will continue to follow-up on both reported incidents to determine the cause(s) and to implement measures to prevent future fish kills.

DAIRIES/CONFINED ANIMAL FACILITIES

Inspections

Staff has completed approximately 85 dairy inspections for FY 2017/18, which is on track to meet our performance target.

Staff recently implemented a plant tissue sampling project on corn silage to test the sample collection methods recommended on our website and to determine possible sources of errors or variability in the test results. Staff will be drafting a report with our findings.

Dairy Digesters

In October, the California Department of Food and Agriculture (CDFA) announced \$35.2 million in grant funding to 18 dairy digester projects across the Central Valley. These projects, part of the Dairy Digester Research and Development Program, will help reduce greenhouse gas emissions from manure on California dairy farms. Staff had an active role as Technical Advisory Committee members reviewing proposals. Financial assistance for the installation of dairy digesters comes from California Climate Investments, a statewide initiative that uses Cap-and-Trade program funds to support the State's climate goals. Dairy digester grant recipients will provide an estimated \$71.2 million in matching funds for the development of their projects. Information about the 2017 Dairy Digester Research and Development Program projects is available at www.cdfa.ca.gov/go/dd.

Animal Mortalities

Last summer, a significant heat wave combined with the temporary shutdown of a major rendering facility led to a number of dairy mortalities that could not be rendered. Some of these were transported directly to landfills. To provide another option, Board staff worked with staff from the Department of Food and Agriculture, CalRecycle, and affected County Health Departments to develop guidelines for on-site composting on a plastic-lined manure pile. That option requires that once the carcasses have been composted, they need to be removed (along with the manure and liner) and disposed of at a landfill. The composted material cannot be land-applied. Staff are verifying the disposition of composting piles during inspections. The guidance we helped develop and the experience gained through working with the other agencies has been shared with staff from the North Coast Regional Water Board to help them deal with animal mortalities as a result of the recent fires in that area.

OIL FIELDS

1. Waste Water Surface Ponds

Oil Field staff have received and reviewed 28 Notices of Intent (NOIs) to comply with the General Waste Discharge Requirements General Orders for Oil Field Discharges to Land, and issued one Notice of Applicability. Staff is continuing to work with the other applicants to complete their NOIs. The operators that are closing their wastewater ponds have submitted closure plans that staff are reviewing and responding to. Four operators with six facilities have not responded to the requirements of their CAOs. These operators have received Notices of Violation, and staff is pursuing enforcement actions against them.

Oil Field staff are inspecting facilities to ensure compliance with the CAOs and to verify the condition of facilities that will be closed. Staff continue 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.

2. Spill Response

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Three significant events occurred in September and October.

- A spill of crude oil and oil field produced water into a dry stream bed occurred on the Section 23F Lease operated by Chevron USA, Inc., in the Midway Sunset Oil Field on 12 September 2017. Reportedly, a pipeline failure caused the discharge of approximately less than 1-bbl of crude oil into a culvert beneath a dirt road. On 20 September 2017, Staff inspected the spill site and observed the after-cleanup conditions of the affected stream bed.
- A spill of crude oil and oil field produced water into a dry stream bed occurred on the Pierce lease operated by Chevron USA, Inc., in the Kern River Oil Field on 16 September 2017. Reportedly, a pipeline leak caused the discharge of approximately 1-bbl of crude oil and 2-bbls of oil field produced wastewater to the affected stream bed. On 20 September 2017, Staff inspected the spill site and observed the after-cleanup conditions of the affected stream bed.
- A spill of crude oil and oil field produced water into a dry stream bed occurred on the McKittrick Fee Lease facility operated by Sentinel Peak Resources California, in the Cymric Oil Field on 27 October 2017. The cause of the spill was still under investigation during Staff's inspection. Reportedly, approximately 25-bbls of crude oil and 25-bbls of produced wastewater overflowed from a wastewater tank into a containment and the affected stream bed. Staff inspected the spill site on 27 October 2017 and observed cleanup activities in progress. Staff inspected the spill site a second time on 3 November 2017 and observed the after-cleanup conditions of the affected areas. Staff of the California Department of Fish and Wildlife conducted a final walk through and signed-up on the cleanup of the affected stream bed on 3 November 2017.

Staff is considering appropriate enforcement for the spills.

3. UIC Program

During the period from 13 September through 14 November, Underground Injection Control Unit staff have completed the following. Staff issued one letter of completion, one Work Plan approval letter, and followed up with two operators regarding information Orders (13267 Orders). The Orders were issued to oil field operators requesting technical reports on injection well(s) that have potentially been injecting Class II fluids produced by oil or gas extraction activities into an aquifer that may not have been properly designated as an exempt aquifer under the federal Safe Drinking Water Act. The 13267 Orders require operators to either provide specific technical

information, or to provide technical justification that their injection well(s) is injecting into an exempted aquifer/zone and therefore should not receive a 13267 Order

Staff have participated in discussions with State Board staff, staff of the Division of Oil Gas and Geothermal Resources (Division), and oil field operators regarding nine Aquifer Exemption applications (Poso Creek, Edison, Midway-Sunset, McKittrick, Lost Hills, North and South Belridge, and Cymric).

Meetings have been held with staff and the Division to develop a process to address Underground Injection Control (UIC), injection projects within the Central Valley Region. Staff completed a reviews of five injection projects (Round Mountain, Buena Vista Nose, Midway Sunset, Mount Poso, and Poso Creek) and provided the Division with questions regarding the projects. Staff are currently reviewing UIC projects submitted to the Division for waste water disposal into a portions of the Fruitvale, Edison, Midway Sunset oil fields.

4. Senate Bill 4 (SB-4) Program

Staff have completed one SB4 Well Stimulation Treatment (WST) Application review, and submitted written comments to the State Board. The WST Application package was for the Dow Chanselor lease in the North and South Belridge oil fields. A total of five WST Applications were reviewed. Two Application packages are under review.

Staff completed groundwater monitoring plan reviews for well stimulations that are planned. Written comments were conveyed to the State Board. Plans reviewed are for: Aera – Lost Hills Oil Field; Dow Chanselor – North and South Belridge Oil Fields; and, California Resources Elk Hills – Well 17-28, North Coles Levee.

5. Food Safety

On 20 September 2017, the Food Safety Expert Panel (Panel) held a working meeting at the Center for Collaborative Policy (CCP). During the meeting, Dr. Stringfellow (Science Advisor) gave a report on citrus sampling results, and Dr. Laura Feinstein of Duke University presented an outline for a future study on produced water grown crops.

On 7 November 2017, the Panel held a public meeting at the Central Valley Water Board's Board Room in Rancho Cordova. Dr. Stringfellow presented an update on the citrus analysis and sampling activities. Dr. Stringfellow also received comments from Panel members and the public. Panel members and Mr. David Ceppos of CCP discussed the long term critical path of the Food Safety Project. Central Valley Water Board staff (Staff) presented water quality data compiled from reports submitted to the Central Valley Water Board. Mr. David Ansolabehere of Cawelo Water District gave an update on the Memorandum of Understanding between Stake Holders and the Central Valley Water Board (MOU). The MOU establishes a process for obtaining a consultant and funding for future studies related to the Food Safety Project. Cawelo is finalizing comments on three Scopes of Work for those future studies. A recording of the meeting can be found on the Board's Food Safety web page.

In August 2017, staff oversaw several crop sampling events. Staff are working to compile results from the samples, which will be evaluated by Dr. Stringfellow. Staff also continue to compile water quality data.

GROUND WATER STRATEGY

The Addendum to the Groundwater Quality Protection Strategy (GWQ Strategy) is available on the Groundwater Quality section of the website listed below. The Addendum updates the sections of the GWQ Strategy that include statewide policies and regulations, changes or additions to the Central Valley Water Board regulatory programs, and identified completed and new actions to protect groundwater quality. The Groundwater Quality Protection Strategy, Addendum, can be found on the Groundwater Quality section of the Central Valley Water Board's website at:

http://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.shtml

The following is a brief status report of ongoing implementation of tasks for actions identified in the June 2013-2015 Workplan and Addendum.

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. More details on CV-SALTS activities can be found in the Salinity and CV-SALTS section of this EO report. Information is also available at: <http://cvsalinity.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

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

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

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.

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

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 calculator for use by the agricultural coalitions. Staff is coordinating with CDFA to augment the irrigation element of the nitrogen management certification training and possibly include information on the summary reporting requirement.

Action 6.5.3 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 2017/2018 fiscal year, 60 open, inactive cases have been reviewed. Of these, 56 were eliminated from the backlog. Of the cases reviewed, 4 need additional staff time and effort on the responsible parties part to resolve. Since the backlog reduction project began, all 791 backlog cases have been initially reviewed with 569 being eliminated from the backlog, and about 222 identified as requiring additional resources. Of these remaining 222 Open Inactive Cleanup Program Sites, 49 cases have been assigned to staff who are working on activating the cases.

Action 6.5.4(c) Reduce backlog of existing Waste Discharge Requirements (WDRs) to be updated and new WDRs to be developed.

Staff is 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). Region 5 staff is involved directly with the development of these general orders. Development of these orders is expected to reduce the number of backlogged applications, but is also expected to speed up the processing of applications for WDRs from new or expanding facilities. Regional Water Board staff is beginning the process of developing general orders for domestic wastewater treatment facilities that discharge more than 100,000 gallons per day, nut hulling facilities, and canned and frozen food processors and working with the industry representatives for consideration of draft general orders.

Staff has been tracking time to monitor effectiveness of its Lean 6 Sigma project implementation measures. A new electronic time tracking spreadsheet has been implemented this fiscal year to better understand where the biggest time sync in the permitting process occurs. This will allow staff to focus attention to improving this part of the process. Improvements through Lean 6 Sigma and drafting new general orders will help reduce the backlog of existing WDRs.

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 Central Valley LAMPs by the OWTS Policy deadline, and one late submittal. Staff are also responsible for reviews of 8 LAMPs that partly extend into the Central Valley, but under external Regions' jurisdictions. The Redding, Rancho Cordova, and Fresno Offices are coordinating reviews in detail. The OWTS Policy has a 13 May 2017 deadline for Regional Board LAMP approvals. Staff have reviewed all 30 LAMPs and resolved issues with local environmental health directors. Two remaining LAMPs are incomplete; we await revised versions. Staff have reviewed 6 of 8 LAMPs from external Regions; we await requests for reviews on the remainder. Prior to public noticing and recommendations to the Central Valley Water Board for consideration, staff request Local Agencies to gain their Board of Supervisors' approvals, and related new code adoptions. The Water Board has subsequently approved 24 LAMPs, 80% of our jurisdictional total. Of these, the Water Board approved 16 LAMPs by the Policy deadline, 53% of our total. Local Agencies that lack Regional Board LAMP approvals by 13 May 2018 will regulate either under OWTS Policy Tier 1 (generally more conservative than a LAMP) or local codes, whichever is more stringent. Staff regularly update progress on the following webpage: http://www.waterboards.ca.gov/centralvalley/water_issues/owts/lamp_reviews/index.shtml

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 25 October 2017 stakeholder meeting was held at the Stanislaus County Farm Bureau, with the focused discussion on the updated State Board order regarding the East San Joaquin petition. State Water Board fee staff also discussed upcoming stakeholder efforts associated with potential future fee modifications. 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_lands/regulatory_information/stakeholder_adv_isory_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 10 October 2017, the State Water Board issued a revised proposed precedential order in response to the petitions regarding the General Order No. R5-2012-0116 for growers within the Eastern San Joaquin River Watershed (SWRCB/OCC Files A-2239(a)-(c)). The revised State Water Board Order proposes changes to the current General Order, including anonymous field-level reporting to the Water Board, domestic well monitoring, and development of numeric targets to assess nitrogen loading to groundwater. State Water Board will hold a workshop on the revised Order on 6 December 2017 and a hearing on 23 January 2018. The comment deadline for the revised Order is 15 December 2017. More information regarding the proposed State Water Board order can be found at the State Water Board [web page](#):

http://www.swrcb.ca.gov/public_notices/petitions/water_quality/a2239_sanjoaquin_ag.shtml

ILRP Compliance, Outreach & Enforcement

Renewed Outreach for Non-enrolled Operations

Since 19 September 2017, staff has mailed 464 outreach letters to likely owners of commercial irrigated farmland within the Eastern San Joaquin County and Sacramento Valley coalition areas. The letters are intended to improve outreach efficiency by providing landowners an opportunity to contact the Water Board prior to staff issuing a Water Code section 13260 directive.

Included with each outreach letter is a tri-fold that describes the Central Valley Water Board and its mission on one side and the ILRP on the other. The tri-fold has been translated to Spanish, and staff will work with the State Water Board's Office of Public Participation to translate the tri-fold into other languages in the coming months. In addition to its use in outreach letters, the tri-fold has been provided to the coalitions and other interested parties for distribution. The tri-fold can be found on the Central Valley Water Board ILRP web page:

http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/outreach_trifold.pdf

Agricultural Parcel Inspections

The purpose of these inspections is to determine if the parcels are commercial irrigated lands that 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.

Coalition Area	Parcel Inspections Sept 15 – Nov 3
East San Joaquin	96
Sacramento Valley	145
West San Joaquin	2
Kaweah Basin	21
Total	264

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.

Coalition Area	On Farm Inspections Sept 15 – Nov 4
East San Joaquin	1
Sacramento Valley	4
San Joaquin Co & Delta	5
Total	10

Notices of Violation for Failure to Submit Farm Evaluations

Between 15 September 2017 and 3 November 2017, Notices of Violation (NOVs) were sent to 148 Coalition members within the Tulare Lake Basin Area for their failure to submit Farm Evaluations by the Board-approved deadline of 1 March 2016. 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 15 September 2017 and 3 November 2017, Notices of Violation (NOVs) were sent to 71 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 2016. The NOVs require the members to provide their summary reports to the Coalition or potentially face monetary penalties. Response results for the NOVs are pending.

Settlement of Administrative Civil Liability Complaint

On 13 October 2017 the Central Valley Water Board reached a settlement agreement with Peter and Lisa Andrada in the amount of \$27,027 for violating Water Code section 13260 by failing to obtain regulatory coverage for their 35 acres of irrigated agricultural lands. The full Settlement Agreement is available for review on the Central Valley Water Board's adopted orders webpage.

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.

Table 1 of 2. Coalition Enrollment Information Summary in the Sacramento, Delta, East and Western San Joaquin River Watersheds*

Coalition Group	CA Rice* Comm.	East San Joaquin	Grasslands Drainage Area	Sacramento Valley	San Joaquin Co. & Delta	Western San Joaquin R.	Totals
Participating Growers							
Number of Growers, Pre-Order	2,500	2,225	N/A	7,888	3,256	2,450	18,319
Number of Growers, Participant List (2017)*	2,500	3,382	100	8,149	3,528	2,505	20,164
Number of Growers Enrolling Land Due to Directive/eNOI (Sept 15, 2017 – Nov 3, 2017)***		10		16	1	0	27
Enrolled Acreage							
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 (2017)*	536,000****	702,081	83,913	1,332,327	516,357	431,452	3,602,131
Number of Acres, Annual Fees (2016-2017)**	536,000****	698,701	80,859	1,330,502	413,126	433,324	3,492,512
Number of Acres added due to Directive/eNOI (Sept 15, 2017 – Nov 3, 2017)***		325		615	28	0	968

* 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 3 November 2017.
 ****Per the Order, the CA Rice Commission is not required to submit a participant list and the acreages are updated annually for fees.

Table 2 of 2. Coalition Enrollment Information Summary for the Tulare Lake and Western Tulare Lake Basins

Coalition Group	Buena Vista	Cawelo	Kaweah Basin	Kern River	Kings River	Tule Basin	Westside	Westlands	Total
Participating Growers									
Number of Growers, Pre-Order	3,794 (Southern San Joaquin Water Quality Coalition)							1,070	4,864
Number of Growers, Current Participant List (2017)*	42	87	1,272	762	4,658	1,012	42	1,247	9,122
Number of Growers Enrolling Land Due to Directive/eNOI (Sept 15, 2017 – Nov 3, 2017)***	0	0	2	2	7	0	0	0	11
Enrolled Acreage									
Number of Acres, Pre-Order	957,362 (Southern San Joaquin Water Quality Coalition)							507,489	1,464,851

Number of Acres, Current Participant List (2017)*	32,930	33,818	158,842	528,687	785,692	224,264	98,136	487,526	2,349,895
Number of Acres, Previous Annual Fees (2015-2016)**	30,788	34,524	163,422	522,776	761,019	225,018	99,761	490,495	2,327,803
Number of Acres added due to Directive/eNOI (May 1, 2017 – July 3, 2017)***	0	0	133	36	885	0	0	0	1,054

* 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 3 July 2017

Central Valley Groundwater Monitoring Collaborative (CVGMC)

On 31 October 2017, the Central Valley Groundwater Monitoring Collaborative (CVGMC) submitted a conceptual workplan for the development of a regional groundwater trend monitoring program. The group is currently comprised of various Coalition’s throughout the Central Valley region, and may expand in the future to incorporate other dischargers and/or representative groups who have a mutual interest in monitoring groundwater.

Sacramento River Watershed Coalition Groups

California Rice Commission

The 2017 Annual Monitoring Report (AMR) is due for submittal by the California Rice Commission on 31 December 2017. The 2017 AMR will cover the surface water monitoring period that concluded in July 2017.

Subwatershed Withdrawal From Sacramento Valley Water Quality Coalition

The Sacramento Valley Water Quality Coalition (Coalition or SVWQC) operates upon an agreement with 13 subwatershed groups to outreach to members within their respective subwatersheds. The outreach includes holding annual meetings, providing updates on the ILRP and billing. On 30 October 2017, the Placer-Nevada South-Sutter North Sacramento Subwatershed Group (PNSSNS) submitted a request for a Notice of Applicability (NOA) to serve as the third-party group on behalf of the growers currently enrolled within the PNSSNS area. In early November, we also received correspondence from PNSSNS and SVWQC regarding termination of their agreement as of 31 October 2017, which calls into question the standing of PNSSNS members in the SVWQC. The Coalition’s NOA, with respect to the PNSSNS area, was issued based on the agreement and the relationship between the Coalition and PNSSNS. Staff met with PNSSNS and has sent a letter to PNSSNS and the Coalition urging them to work together to ensure adequate enrollment of the PNSSNS members in the ILRP. We explained that approval as a third-party is a detailed and lengthy process, and currently, the only option available to PNSSNS members is enrollment in the ILRP General Order for Individual Growers, R5-2013-0100 (Individual Order). We also informed them that staff will begin sending enforcement letters to the PNSSNS members in early January 2018 requiring enrollment in the Individual Order unless the agreement is reinstated.

Sacramento Valley Water Quality Coalition

On 22 September, staff held a meeting with the Sacramento Valley Water Quality Coalition (SVWQC) to discuss an approach to address dissolved oxygen and pH management plans. SVWQC is proceeding with data analysis in an effort to identify the primary agricultural and non-agricultural factors controlling dissolved oxygen and pH.

On 9 October, the SVWQC submitted a revised 2018 water year Monitoring Plan Update report and Pesticide Evaluation Protocol. The Monitoring Plan Update proposes the water quality monitoring schedule for the period between October 2017 and September 2018. The report is currently under staff review.

On 25 October, the SVWQC submitted electronic monitoring results for the 2nd quarter of the 2017 water year, covering January through March 2017.

On 6 November, staff held a meeting with SVWQC to discuss comments on Sac Valley's revised Groundwater Quality Management Plan. Staff clarified the purpose and requirements of the GQMP and answered questions on staff comments. The Coalition will prepare and submit a second revised version.

San Joaquin River Watershed Coalition Groups

East San Joaquin Water Quality Coalition

On 21 September, the Coalition submitted an amendment form to update the Quality Assurance Project Plan. The Coalition proposes to reduce the frequency requirements for field blank and field duplicate samples. The request is currently under review.

On 1 September, the Coalition submitted a proposal outlining the monitoring reductions to compensate the monetary contribution to the Delta Regional Monitoring Program. After confirming that the proposed changes to water quality monitoring would allow the Coalition to continue to comply with the requirements of the Order, the EO approved the proposed changes on 22 September. The approved monitoring reductions are included in the 2017 Monitoring Plan Update.

On 5 October, the Coalition submitted an amendment form to update the Quality Assurance Project Plan. The Coalition proposes to update its electronic Quality Assurance Project Plan to include analytical methods and measurement levels for new pesticides identified through the Pesticides Evaluation Protocol. The request is currently under review.

On 1 November, the Coalition resubmitted the 2018 water year Pesticide Evaluation Protocol and Monitoring Schedule. The monitoring schedule was updated based on staff recommendation for Aquatic Life and Human Health benchmarks. The updated monitoring plan is under staff review.

San Joaquin County and Delta Water Quality Coalition

On 21 September, due to the Coalition's new pesticide monitoring protocol, the Coalition submitted a request to amend its QAPP to meet new collection frequency objectives for field blank and field duplicates. Staff has held several meetings with the Coalition and State Board. The request is under staff review.

On 22 September, the Executive Officer approved the SJD Coalition's proposal outlining its contribution to the Delta Regional Monitoring Program. *P. promelas* toxicity monitoring will be suspended at Core sites Bear Creek, French Camp Slough, Drain at Woodbridge, Walthall Slough, and Union Island Drain during the 2018 water. A monetary contribution will be provided to the Delta RMP in trade for the monitoring.

On 2 October, the Executive Officer approved the Coalition's 2018 Water Year Monitoring Plan Update. Consistent with the Pesticide Evaluation Protocol, 41 new pesticides were added to the monitoring schedule.

On 5 October, staff received a Coalition QAPP amendment updating the list of constituents and associated Data Quality Objectives due to the pesticide evaluation protocol for the 2018 Water Year. The amendment is under staff review.

Westside San Joaquin River Watershed Coalition

On 18 September 2017, Coalition and Water Board staff met to discuss Board staff's preliminary comments on the Proximity to Surface Waters Workplan deliverables and the Coalition's proposed schedule for conducting a further evaluation of parcels that are adjacent to the remaining water bodies in their region.

On 7 November, staff provided a presentation to the Coalition Board on the revised State Board Order issued in response to the East San Joaquin petition as well as the ILRP Sediment and Erosion Control Plan requirements. Staff will conduct field visits to evaluate the appropriateness of possible exemptions for closed systems.

Grassland Drainage Area Coalition

On 16 January 2017, the Comprehensive Groundwater Quality Management Plan (GQMP) for the Grassland Drainage Area was submitted to the Central Valley Water Board. On 11 May Water Board staff sent informal comments on the draft GQMP to the Coalition. A revised GQMP was received on 31 August and approved by the Executive Officer on 18 September.

On 15 May 2017, the Grassland Drainage Area Coalition submitted the Basin Plan Amendment Workplan. The workplan was submitted to request that groundwater in specific high vulnerability areas be de-designated for beneficial uses where they would not be supported even in the absence of the discharge of waste. On 27 July, the Executive Officer issued a review of the workplan requesting that additional information be provided in a revised draft by 1 December to meet the requirements of Order R5-2015-0095.

Tulare Lake Basin Coalition Groups

Kaweah Basin Water Quality Association

On 20 September 2017 ILRP staff met with KBWQA staff, at their request, to take a tour of the monitoring sites in the KBWQA. Discussions included the development of the Surface Water Management Plan for the Stone Corral Irrigation District area and the complexity of sampling some monitoring sites.

Westside Water Quality Coalition

On 31 October 2017, staff provided a review of the Westside Water Quality Coalition's Comprehensive Groundwater Quality Management Plan (GQMP). Staff noted certain areas of the GQMP that needed revisions in order to comply with Waste Discharge Requirements General Order R5-2013-0120 (General Order). Key elements that need to be addressed are the immediate need for outreach and education to growers in high vulnerability areas concurrent with the proposed Source Identification Study, and grower implementation of specific management practices (wellhead protection, proper destruction of abandoned wells, and accounting for nitrate in irrigation water) as a first step to protect groundwater quality, prior to availability of results from the Southern San Joaquin Valley Management Practices Evaluation Program (SSJV MPEP) report. The coalition is required to submit a revised GQMP by 10 January 2018.

Westlands Water Quality Coalition

On 19 October 2017, ILRP staff met with the Westlands Water Quality Coalition and Michael L. Johnson LLC Ecosystems Consulting staff for a quarterly meeting. Discussion topics included the Sediment Erosion Control Plan, Surface Water Monitoring Plan, Farm Evaluation and Nitrogen Management Plan NOVs and the Central Valley Groundwater Management Collaborative status update.

On 23 October 2017, ILRP staff met with the Coalition and Provost and Pritchard staff to discuss comments on the Coalition's pesticide monitoring proposal. The Coalition is in process of developing a database to further evaluate and analyze of historical pesticide monitoring data.

Other Projects

Data Management

On 6 November, the Data Management Team successfully uploaded all the Irrigated Lands Regulatory Program historical data (2004-2008), 2016 California Rice Commission, 2016 Sacramento Valley Water Quality Coalition, and January through June 2016 Grass Lands Bypass Project to the California Environmental Data Exchange

Network (CEDEN). CEDEN, the central location to find information about California's water bodies, is accessible on-line via the following website: <http://www.ceden.org/>

Grassland Bypass Project

On 31 August 2015, the U.S. Bureau of Reclamation submitted the draft Quality Assurance Project Plan (QAPP) for the Compliance Monitoring Program for the operation of the Grassland Bypass Project for staff review. On 26 October 2017, a revised QAPP for the Grassland Bypass Project was submitted to the Central Valley Water Board in response to comments provided by the Quality Assurance Officer for the State Water Resources Control Board. The revised QAPP is currently under staff review to confirm that all of the comments were addressed.

Norman's Nursery

On 5 May 2017, staff participated in a site visit with Norman's Nursery representatives near Linden, CA. UC Extension specialists and a SJ Delta Coalition representative were also present. Nursery staff provided a tour of the grounds and discussed their irrigation system, points of drainage and monitoring locations. Participants agreed that a management plan should be developed to address surface water and shallow groundwater nitrate exceedances observed during 20 years of monitoring under MRP 97-811. Subsequently, the SJ Delta Coalition agreed to oversee development and implementation of a nitrate management plan in coordination with the Nursery. On 16 June 2017, the Executive Officer rescinded MRP 97-811 and issued a letter to the SJ Delta Coalition requiring the Coalition and Nursery to work together to develop and implement a management plan to address the nitrate exceedances. A management plan outline was submitted and is currently under staff review.

Rice Pesticides Program

On 6 November 2017 the annual stakeholder meeting for the Rice Pesticides Program was held at the Central Valley Water Board office in Rancho Cordova, CA. The results of thiobencarb monitoring completed during the 2017 season were reviewed and plans for the upcoming season discussed. The monitoring results will be finalized in the 2017 Annual Monitoring Report due in December 2017.

NON POINT SOURCE

Clear Lake Nutrient Control Program Update

Staff is developing an implementation status update report for the Clear Lake Nutrient Control Program for public review in 2018. In addition, staff is evaluating the need and options for amending portions of the Nutrient Control Program including the compliance date (19 June 2017) and milestones for assessing implementation progress. Although many implementation activities have been completed and are in progress, available information indicates it is not possible to attain all allocations by the compliance date, primarily due to delays in acquiring funding to complete the Middle Creek Flood Damage Reduction and Ecosystem Restoration Project. Modelled projections for the Restoration Project indicated that completion would remove about a fifth of the phosphorus load entering the lake (about 40% of the phosphorus reduction needed from nonpoint source discharges).

Staff initiated a public participation process this past summer to obtain early input from Tribes and the public on identifying a range of potential implementation actions, alternatives, mitigation measures, and potentially significant environmental effects to be analyzed during the evaluation of possible changes to the Nutrient Control Program. On 10 July 2017, staff met in Upper Lake with the Environmental Directors of the six Tribes in Lake County—Big Valley Rancheria Band of Pomo Indians, Elem Indian Colony, Habematolel Pomo of Upper Lake, Scotts Valley Band of Pomo Indians, Middletown Rancheria, and Robinson Rancheria—for a two hour discussion that focused on Tribal concerns, questions and ideas about potential changes to the Nutrient Control Program.

In addition, staff held a public outreach meeting in Lakeport, Lake County, on 28 August 2017. The meeting goals were to obtain public input on options for potential changes to the Clear Lake Nutrient Control Program, as well as possible environmental impacts that could result from different options and ways to avoid or mitigate these possible impacts. About 80 people participated in the meeting. To date, staff have received written comments from 34 stakeholders following up on the August 28th meeting topics. All comments will be considered in the implementation status update report and evaluation of potential changes to the control program.

Staff plans to have additional staff workshops in Lake County in 2018 to review staff's upcoming implementation status update report and to discuss stakeholder questions and concerns about the implementation status of the control program. A Board workshop will be held in the Clear Lake area as well. This will allow the public to address Board Members directly regarding this matter.

More information about the Clear Lake Nutrient Control Program as well as the outreach meeting materials and written comments can be found at:
http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.shtml

CYANOBACTERIA BLOOMS UPDATE

HABs Portal

In 2016, the California Water Quality Monitoring Council developed a web-based portal “Are harmful algal blooms affecting our waters?” (HABs Portal). The HABs Portal tracks cyanobacteria and other harmful algal blooms (cyanoHABs) occurring in the Central Valley and across the state and functions as a “one-stop” resource for the public, waterbody managers and local health departments. The HABs Portal contains a map of California showing locations where cyanoHABs are being voluntarily reported and provides useful information on how to report a bloom, how to identify a cyanoHAB, and guidance documents for local waterbody managers and health agencies on posting advisories, proper field sampling protocols and laboratory resources.

Central Valley Bloom Notifications and Response

CyanoHABs have become a frequent occurrence across the state and in Central Valley waters. Table 1 summarizes the suspected and confirmed cyanobacteria blooms reported to the Central Valley Water Board in 2017. From January through October, staff received 30 reports of suspected blooms in Central Valley waterways. Of the 30 blooms reported this year, three bloom reports remain open because blooms are still occurring. These locations are Discovery Bay (Contra Costa County), San Luis Reservoir (Merced County), and Lake Isabella (Kern County). Contra Costa Health Services is monitoring in Discovery Bay, the Department of Water Resources is monitoring San Luis Reservoir, and Kern County Health Services is monitoring Lake Isabella. In October, staff received only one new report of cyanobacteria, which was observed in the South Delta at Victoria Canal near Union Point by Department of Water Resources Temporary Barriers Program field staff. No sampling was conducted because the cyanobacteria colonies were widely scattered and the cell density was low.

Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2017

Count	Month	Report Name (Report ID)	Report Status	Cyanobacteria (<i>Genera</i>) Identified?	Site Previously Reported in 2016 ¹ ?	Toxin Detected
1	March	Oakwood Lake, Manteca, San Joaquin County (ID 1511)	Closed	Aphanizomenon, Woronochinia, Dolichospermum, Pseudanabaena	No	No toxin detected
2	March	Lake Clementine, Auburn, Placer County (ID 1516)	Closed	No cyanobacteria found in sample	Yes	Not tested
3	May	Clear Lake, Lake County (ID 1530, 1533, 1541, 1563, 1564, 1566)	Closed	Dolichospermum and Microcystis	Yes	Microcystin
4	May	Natomas East Main Drain Canal (Steelhead Creek), Sacramento (ID 1531)	Closed	Not sampled, site not accessible for sampling	No	Not tested
5	May	San Luis Reservoir, Merced County (ID 1534)	Open	Dolichospermum, Aphanizomenon, Microcystis, Pseudanabaena	Yes	Microcystin
6	May	Barker Slough Pumping Plant, Dixon (ID 1537)	Closed	Dolichospermum, Pseudanabaena, Planktothrix, Aphanizomenon, and Cuspidothrix	No	Microcystin
7	June	Black Butte Lake, Orland, Tehama &	Closed	Dolichospermum, Aphanizomenon,	No	Anatoxin-a

Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2017

Count	Month	Report Name (Report ID)	Report Status	Cyanobacteria (<i>Genera</i>) Identified?	Site Previously Reported in 2016 ¹ ?	Toxin Detected
		Glenn County (ID 1542)		Geosmin		
8	June	Unnamed Ski Lake, Orland, Glenn County (ID 1543)	Closed	Lyngbya, planktothrix, (one fragment of Dolichospermum) (reported dog death suspected to be related to known cyanobacteria bloom)	No	Anatoxin-a
9	June	Blue Lakes, Lake County (ID 1556, 1568)	Closed	Dolichospermum	No	Microcystin, Anatoxin-a
10	June	Lake Isabella, Kern County (ID 1558, 1559)	Open	Dolichospermum	Yes	Microcystin
11	June	Stone Lakes National Wildlife Refuge, Sacramento County (1560)	Closed	Dolichospermum, Planktothrix, Aphanizomenon	No	Anatoxin-a, Cylindrospermopsin, Microcystin, Saxitoxin
12	June	Discovery Bay, Contra Costa County (ID 1539, 1565)	Open	Unknown; Contra Costa County Health Services only samples for toxin not ID	Yes	Microcystin
13	June	Four Island Lake, Kern County (Private HOA lake)	Closed	Not sampled	No	Not tested
14	July	Lake Britton, Shasta County (ID 1583)	Closed	Dolichospermum	Yes	Anatoxin-a
15	July	North Fork American River & Folsom Lake, Placer County (ID 1585, 1605-1614)	Closed	Dolichospermum	Yes	Non-detect for Anatoxin-a
16	July	Copsey Creek, Lake County (ID 1588)	Closed	Dolichospermum, Microcystis	No	Microcystin
17	July	Animal Stock Pond, Sacramento County	Closed	Not sampled	No	Not tested
18	July	Touchstone Lake, Sacramento County	Closed	Dolichospermum, Oscillatoria, Planktothrix	No	Anatoxin-a
19	August	Lake Berryessa, Napa County (ID 1630, 1655-1659)	Closed	Anabaena, Oscillatoria, Planktothrix, Spirulina, Cylindrospermum	No	Cylindrospermopsin, Anatoxin-a

Table 1. Summary of Suspected and Confirmed Cyanobacteria Blooms in the Central Valley in 2017

Count	Month	Report Name (Report ID)	Report Status	Cyanobacteria (<i>Genera</i>) Identified?	Site Previously Reported in 2016 ¹ ?	Toxin Detected
20	August	Rio Bravo Country Club, Kern County	Closed	Not sampled (reported dead fish and birds)	No	Not tested
21	August	San Joaquin River Stockton Deep Water Ship Channel, San Joaquin County (ID 1626-1629)	Closed	Not sampled	Yes	Not tested
22	August	Big Break Regional Shoreline, Contra Costa County (ID 1619)	Closed	Dolichospermum, Aphanizomenon	Yes	N/A
23	August	Laguna Joaquin at Rancho Murieta, Sacramento County (ID 1633)	Closed	Oscillatoria, Phormidium, Cyndrospermum, Melosira, Anabaena, Merismopedia	No	Microcystin-LR, Microcystin-RR
24	August	Shasta Lake, Shasta County	N/A	Unknown	Yes	None
25	August	West Drainage Canal, Sacramento County (ID 1632)	Closed	Not sampled	No	Not tested
26	August	Lake Almanor	N/A	Unknown	Yes	None
27	August	Whiskeytown Lake	N/A	Unknown	No	None
28	September	Cache Creek (ID 1667)	Closed	Unknown but looks like Microcystis	No	Unknown
29	September	Stock Pond West of Orland (ID 1669)	Closed	Unknown	No	Unknown
30	October	Victoria Canal near Union Point	Closed	Microcystis	No	Not tested

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

GRANTS

Underground Storage Tanks, Targeted Brownfields Assessment (TBA) Grant

The United States Environmental Protection Agency – Region 9 awarded the Central Valley Water Board a Targeted Brownfields Assessment Grant of up to \$100,000 to assess environmental conditions at Underground Storage Tank Case No. 450202, Roy's Chevron (Case 2) located at 43103 Highway 299 East, Fall River Mills, Shasta County (Site). This Site has been recalcitrant since 1996 and abandoned since at least 1994. This grant will allow Central Valley Water Board staff to determine if the Site meets the Low-Threat Closure Policy or if remediation is necessary. The property is under consideration for redevelopment as a restaurant.

<https://www.epa.gov/brownfields/brownfields-and-land-revitalization-california-arizona-nevada-and-hawaii>

2018 Federal NPS Grant Solicitation – Coming December 2017

Approximately \$4 million will be available for this 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.

Clean Water Act §319(h) Nonpoint Source On-going Grants:

Implementation of Agricultural Best Management Practices in Alfalfa, Almonds, and Cotton that Aid in Restoration of the San Joaquin River Watershed (\$749,997) – The Sustainable Cotton Project will continue work engaging more farmers of alfalfa, cotton, almonds and more acres in the Lower San Joaquin River watershed in implementing proven best management practices. There is an adopted chlorpyrifos and diazinon TMDL for the watershed. This grant works to reduce or eliminate farmers' use of diazinon and chlorpyrifos. (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 5/31/2019)

GENERAL

1. **CANNABIS PROGRAM**

On 17 October 2017, the State Water Resources Control Board adopted a General Order of Waste Discharge Requirements and a Waiver of Waste Discharge Requirements for Discharges of Waste Associated with Cannabis Cultivation. In addition to adoption of the General Order and Waiver, the State Water Board adopted an over-arching Policy for cannabis cultivation. The Policy includes elements of water quality protection measures, water use and diversion requirements, and describes how the Water Boards' regulations will be implemented in coordination with statewide licensing agencies for cannabis cultivation. Region 5 staff has been heavily involved in the process and has provided the State Water Board review, comments, and assistance with development of the General Order and the Policy. The change from the current Region 5 General Order, adopted in 2015, to the Statewide General Order will happen immediately. The Central Valley Water Board will no longer be accepting new enrollments under its General Order, and will be transitioning current enrollees to the Statewide General Order between now and 1 July 2019.

2. **E.COLI MEASUREMENTS – LOWER AMERICAN RIVER WATERSHED**

Since 2007, Central Valley Water Board staff and the State Water Board have been implementing the "Safe to Swim" ambient monitoring program. Under this program, staff have monitored waterways throughout the Central Valley for E.coli and other parameters to measure whether recreational beneficial uses are being met. E. coli is a bacteria used as an indicator of fecal contamination and the potential presence of pathogens. From 2007-2016, staff sampled the Lower American River Watershed for E.coli and pathogens and found levels exceeding USEPA recommended criteria for E.coli. Upon becoming aware of the elevated levels, staff initially reached out to local county health officials, and other water managers. Unfortunately, these communications did not continue and a higher level of coordination is needed to help local health agencies work to fulfil their mandates and also to ensure proper notification. Toward this goal, Water Board staff have met with representatives from the California Conference of Directors of Environmental Health, California Department of Public Health, State Parks, and Sacramento County to initialize development of a protocol for coordination and notification on water quality data between agencies. In addition, Central Valley Water Board staff are working with local agencies and the State Water Board to fund follow up monitoring in the Lower American River Watershed to further refine understanding of the sources of E.coli and whether specific pathogens, including pathogenic forms of E.coli, are present. Staff are also looking into whether sampling for the hepatitis A virus may be possible during low flow periods.

PUBLIC OUTREACH

On 20 September, Zaira Lopez-Narvaez attended a joint meeting of the Tuolumne-Stanislaus Integrated Regional Water Management (IRWM) Authority Board and Watershed Advisory Committee. The meeting focused on reviewing the IRWM Plan Update and providing feedback and suggestions to improve the updated IRWM Plan. The goal is to submit the IRWM Plan Update to DWR by October 2017 in order to have enough time for the plan to be approved before the next round of funding begins.

On 20 September Alex MacDonald provided a presentation to the Aerojet Rocketdyne Community Advisory Group. His presentation covered the on-going field activities occurring at the Aerojet and Inactive Rancho Cordova Test Sites. Other topics that were covered were the status of the soil vapor intrusion investigation that Aerojet is currently conducting both on and off their property and the investigation of contamination at Area 40 that is slated to become a park in the City of Folsom development south of US 50.

On 20 September, Bethany Soto attended the Upper Kings Basin Integrated Regional Water Management Authority (KBWA) Advisory Committee Meeting. It was announced at the meeting that Tulare County was awarded the Prop 1 Disadvantaged Community (DAC) Involvement grant from the Department of Water Resources (DWR) for the Integrated Regional Water Management (IRWM) Program for the Tulare/Kern Funding Area. Tulare County is seeking representatives from each IRWM group in the Tulare/Kern Funding Area to participate in the DAC involvement. A Project Advisory Committee (PAC), of KBWA participants, was voted on to represent KBWA at meetings for the Prop 1 DAC Involvement Program to provide an advisory role in the development of the program's activities.

On 26 September, Michelle Wood and Taran Sahota attended Lake County Land Trust's Conservation Priority Plan Update workshop. The workshop purpose was to identify conservation opportunities through the acquisition of properties potentially threatened with development or conversion to other land uses. Staff participated in the workshop to help identify wetland restoration/protection and erosion control priority areas in the Clear Lake watershed.

On 28 September Alex MacDonald provided nation-wide training via the internet for the Integrated DNAPL Source Site Strategy Team of the Interstate Technical Regulatory Council (ITRC). Alex was one of four instructors for the 2.25-hour training on the ITRC document *Integrated DNAPL Site Strategy* (2011). This was the twelfth training session on the document. The training is provided free of charge and approximately 220 people world-wide attended the training.

On 2 October, Bethany Soto participated at the Tulare Basin Integrated Regional Planning Effort, which is a group of IRWM practitioners from the Tulare - Kern Funding Area. The meeting discussed the IRWM grant implementation status of each of the individual practitioner's, coordination with DACs within the Tulare Basin, and an update on formation of groundwater sustainability agencies within the Tulare - Kern funding area. One of the focuses at the meeting was getting ideas on how to get the tribal communities involved with their region's IRWM group. Tribal representatives are needed for the Prop 1 DAC Involvement Program.

On 3 October, 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. Anthony updated the group on a pile of oily contaminated dirt in Arvin. The pile is scheduled for removal by the end of the month.

On 3 October, Sue McConnell and Eric Warren meet with representatives of the Tulare Lake Basin Coalitions to discuss requirements of the ILRP.

On 3 October, Zack Chandler of the Redding NPDES Unit gave a presentation to students of the Advanced Wastewater Treatment course at Shasta College in Redding. Zack presented the history of water quality regulation and the State Water Resource Control Board/Central Valley Water Board, the purpose of water quality protection and importance of regulation, and the obligation/responsibilities of the Central Valley Water

Board. Zack fielded questions from the students who said they appreciated the opportunity to learn about the various regulatory programs of the Central Valley Water Board.

On 5 October, Sue McConnell provided a presentation to researchers from New Zealand regarding the ILRP groundwater protection elements.

On 9 October, Zaira Lopez-Narvaez attended the Madera Integrated Regional Water Management (IRWM) meeting. The meeting focused on discussing the IRWM Plan update in regards to reviewing the proposals received. During the meeting, members of the Madera IRWM also updated the group on the status of current projects and available funding.

On 10 October, Anthony Toto attended the Fresno Environmental Reporting Network (FERN) task force meeting to review and provide updates regarding environmental complaints lodged by various disadvantaged community groups and members. Announcement included a conference at the Merced Multicultural Center on 21 October 2017 entitled "Roots of Resilience Conference."

On 10 and 11 October, Danny McClure and Selina Cole attended the 13th Biennial State of the Estuary Conference in Oakland. Danny McClure gave a presentation on efforts to reduce pesticide-related toxicity in the Delta and its tributaries in the Central Valley as part of a session on progress and challenges in tackling pesticides in the estuary. Conference programs and abstracts are available at <http://www.sfestuary.org/soe/program/>

On 11 October, Scott Zaitz attended the Hambright Creek Community Town Hall Meeting in Orland. The meeting addressed concerns with flooding and streambed maintenance associated with Hambright Creek. The creek is subject to seasonal flooding that impacts residents living in the area. Scott answered questions from local government and community members on required permitting.

On 12 October, Griffin Perea spoke to the Nevada County Cannabis Alliance in Nevada City. The talk covered the status of the Central Valley Water Board's Cannabis General Order, potential changes to be expected from adoption of the Statewide Waste Discharge General Order, and Best Management Practices to ensure cultivation sites do not cause impacts to the environment. Staff also fielded questions from meeting attendees.

On 12 October, Zaira Lopez-Narvaez and Eric Warren attended the Headwaters to Groundwater Symposium at the Southern California Edison Energy Education Center in Tulare. The meeting was organized by the Tulare Basin Watershed Connections Workgroup, and included presentations on various projects through the watershed that have an impact on water quality and quantity. Discussions also focused on the importance of connecting public and private stakeholders who may have mutually beneficial projects.

On 20 October, Monique Gaido, Jason Schroeder, Bill Bergmann and Patrick DeCarvalho created an exhibit and participated in the Ignite Opportunity 4.0 Science, Technology, Engineering, and Math (STEM) Career Day sponsored by the Shasta County Office of Education. This regional event fosters business community support and resources to encourage North State students to prepare for and pursue career opportunities in STEM fields. This year approximately 53 private businesses and public agencies, including the Central Valley Water Board participated in the event. Approximately 1,000 ninth grade students from nine north state counties (Shasta, Butte, Trinity, Siskiyou, Modoc, Lassen, Tehama, Glenn, and Plumas) attended this year's event. This is the fourth year Redding office Water Board staff has participated in this event.

On 21 October, Ben Letton, Nathan Cullen, Daniel Whitley, Guy Chetelat and Valerie Rasmussen attended the Coleman National Fish Hatchery Salmon Festival. Water Boards staff provided outreach materials and answered questions relative to our work as an agency and specific efforts underway in Battle Creek to protect water quality and salmon habitat.

On 23 October, Christine Joab attended the American River Basin's Integrated Regional Water Management (IRWM) meeting. Stakeholders received an update on the development of the Regional Storm Water Resources Plan and a review of the 2016 Planning Standards, which will be used for updating the IRWM plan.

On 24 October, Debra Hallis, Angela Wilson, Cori Hansen, Clint Snyder, and Ben Letton hosted a public outreach meeting for the development of a Federal NPS permit in Susanville, CA. The permit development is a joint effort between Region 5 and Region 6 and will include regulation of NPS activities on both USFS and BLM managed lands. The meeting was attended largely by federal agency representative, regional water board staff, and grazing permittees.

On 25 October, Patrick Morris attended the Headwater Mercury Source Reduction Technical Advisory Committee (TAC) meeting. The group discussed mercury-contaminated sediments associated with historic hydraulic mining activities, proposed projects to remove contaminated sediment from reservoirs, and polymer additions to remove metals from the Lake Combie mercury removal pilot test project. Patrick provided an update on the Statewide Mercury Control Program for Reservoirs.

On 25 October, Eric Warren, Glenn Meeks and Sue McConnell organized the quarterly ILRP stakeholders meeting at the Stanislaus County Farm Bureau in Modesto. Emel Wadhvani of the State Water Board presented the State Board's Draft East San Joaquin Water Quality Coalition Petition Order and answer questions. The state agencies, coalitions and environmental justice representatives provided updates.

On 26 October, Susan Fregien and Dana Kulesza toured Driscoll's strawberry starter plant nursery near Red Bluff to gain further insight into the nursery industry related to the Irrigated Lands Regulatory Program and the Nitrogen Management Plan (NMP) requirements. Staff are initiating work towards refining the NMP tracking templates and/or developing a guidance document so that more accurate and meaningful nursery data can be collected and reported.

On 26 October, Christine Joab attended the California Cyanobacteria and Harmful Algal Bloom (CCHAB) Network meeting. Presentations included an update on the State Water Board's Biostimulatory Substances/Biointegrity Policy Workplan for wadeable streams and lakes, and a webinar on using molecular tools for improved algal bloom monitoring.

On 26 October, Zaira Lopez-Narvaez attended the Yosemite-Mariposa IRWM meeting. The meeting focused on member updates in regards to projects, grants, and funding. Members also provided information about future events such as workshops, seminars and meetings.

On 30 October, Janis Cooke attended a public meeting hosted by the Delta Stewardship Council about monitoring and research that the Council is funding ahead of Regional San's wastewater treatment plant upgrade. The "Operation Baseline" studies will gather information about nutrients, aquatic plants and food webs before the treatment upgrade reduces nitrogen levels in the lower Sacramento River.

On 2 November, the entire Forest Activities Program Redding staff, and Clint Snyder hosted a public outreach meeting for the development of a Federal NPS permit in Redding, CA. The permit development is a joint effort between Region 5 and Region 6 and will include regulation of NPS activities on both USFS and BLM managed lands. The meeting was attended largely by federal agency representative, regional water board staff, and other interested stakeholders.

On 7 November, 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. Anthony updated the group on a composting site in Kern County, which is getting a conditional use permit from Kern County, then will be enrolled under General Order WQ 2015-0121-DWQ.

On 8 November, Scott Hatton attended the San Joaquin Valley Air Pollution Control District's Central Valley Summit on Alternatives to Open Burning of Agricultural Waste. Mr. Hatton presented an overview of the General Waste Discharge Requirements for Composting Operations (State Board Order WQ 2015-0121-DWQ) and how this could be applicable to agriculture.

On 8 November, Ronna Bowers and Cori Hansen attended a public outreach meeting for the development of a Federal NPS permit in Bishop, CA. The permit development is a joint effort between Region 5 and Region 6 and

will include regulation of NPS activities on both USFS and BLM managed lands. The meeting was attended largely by federal agency representative, regional water board staff, and other interested stakeholders.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATE

October 1, 2017 – November 8, 2017

Promotion:

None

Leave of Absence:

None

Retirement:

None

Authorized Positions: 263.7

Vacant Positions: 27.9

Separations	New Hires
Brett Stevens – Senior Environmental Scientist	Kelli Garver – Staff Service Manager I Paul Dotson – Engineering Geologist Courtney Kasick – Office Technician Gretchen Woessner – Environmental Scientist

Temporary Help Positions

Separations	New Hires
Garrett Fong – Eng/Arch Student Assistant Sara Saelee – Scientific Aid Brian Salvi – Scientific Aid Cole Hannel – Scientific Aid	Brian Salvi – Scientific Aid

TRAINING UPDATE
October 1, 2017 thru November 8, 2017

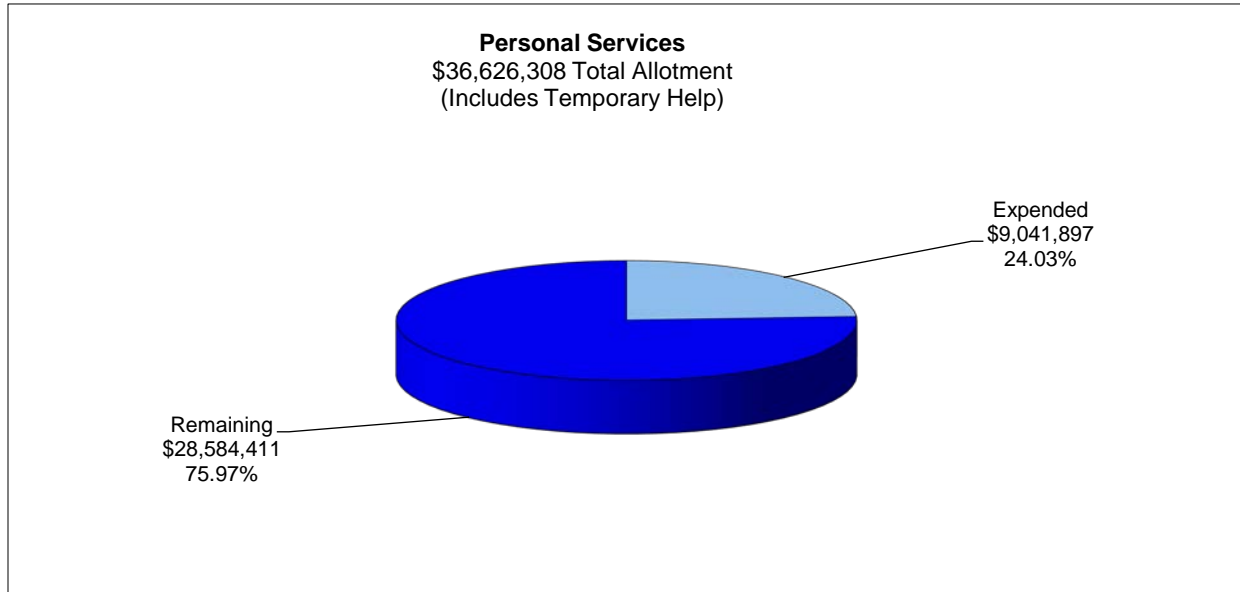
Class Title	Number of Attendees
Managing Conflict	20
13th Biennial State of San Francisco Estuary Conference	1
California Lake Management Society Conference	2
Cybersecurity Awareness	1
Defensive Drivers Training	4
Headwaters to Groundwater Symposium	4
Introduction to Aquatic Toxicity Testing and Toxicity Data Analysis	1
2017 Riparian Summit: Confluence to Influence	2
Building Resilience	7
Completed Staff Work	4
On-Land Visual Trash Assessment and Trash Full Capture System Equivalency Method	5
8-Hour HAZWOPER	32
HAZWOPER Refresher Training	8
Introduction to the Analysis of Geophysical Logs	3
Mastering Grammar for Power Prose	6
AED/CPR American Heart Association Heart Saver AED Training	1
California Aquatic Bioassessment Workgroup	3
Maintaining a Respectful Work Environment	21
Writing for Multilingual	3
2017 FREP/WPHA Conference	1
Emotional Intelligence	4
Nutrient Management Challenges and Opportunities	1
Word Level 2 Training	1
Assessment and Remediation of Dry Cleaner Sites	7
Excel Level 2 Training	1
Field Sampling Operating Procedures Day	8

FISCAL UPDATE

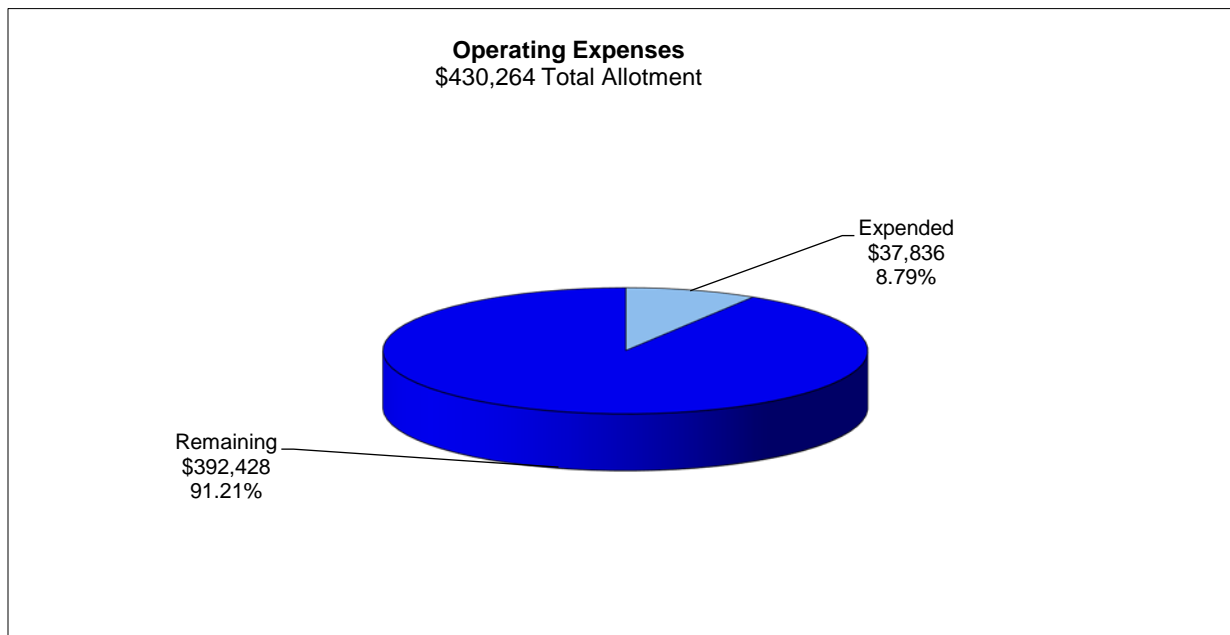
Through September 30, 2017

Personal Services:

The information below represents the budget for the 2017-18 Fiscal Year. Our Personal Services budget supports 261.7 PYs. The Regional Board has received 10 new permanent positions for the Cannabis Cultivation Program and 3 new limited term positions for the Oil Fields Program.

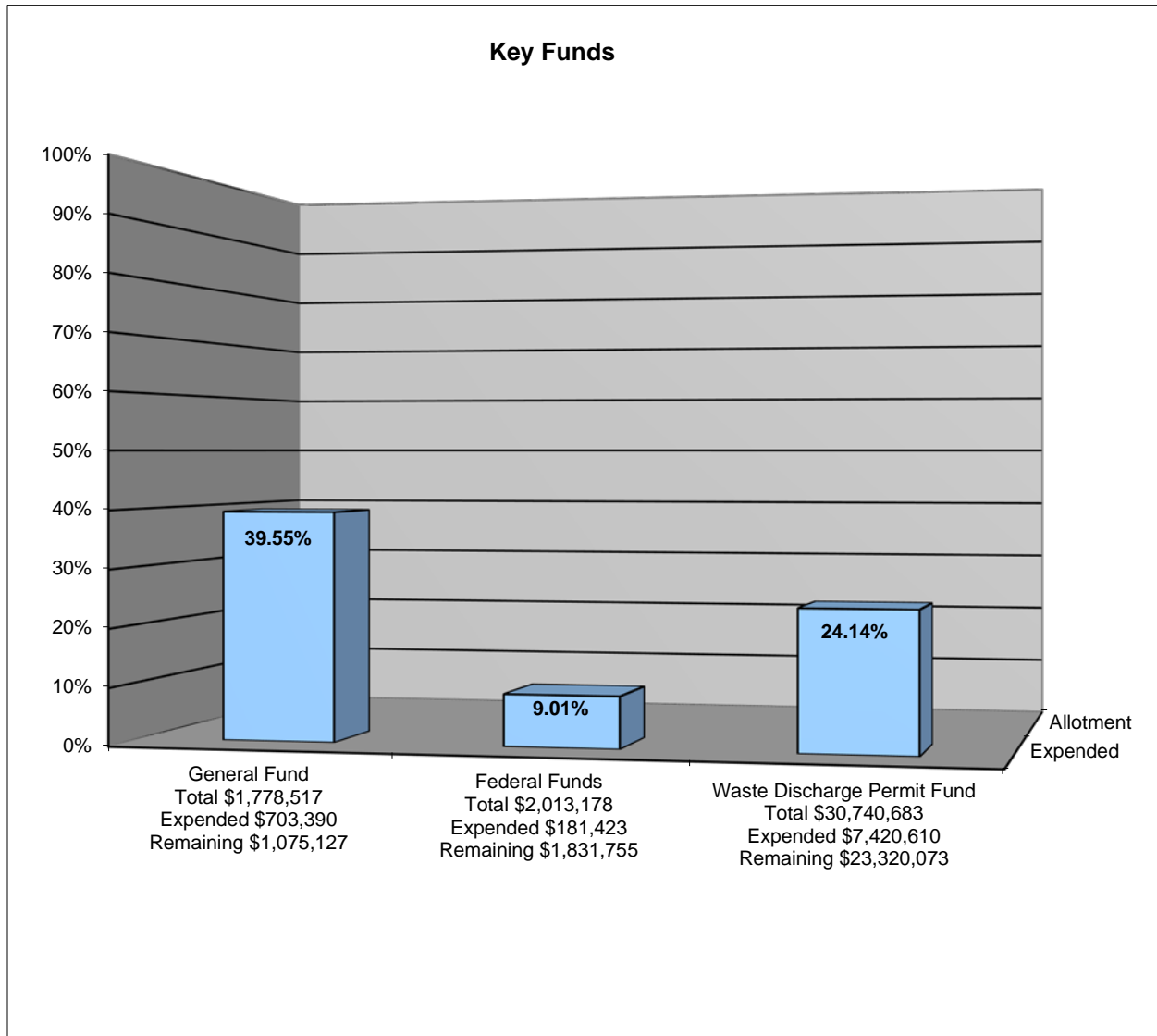


Operating Expenses:



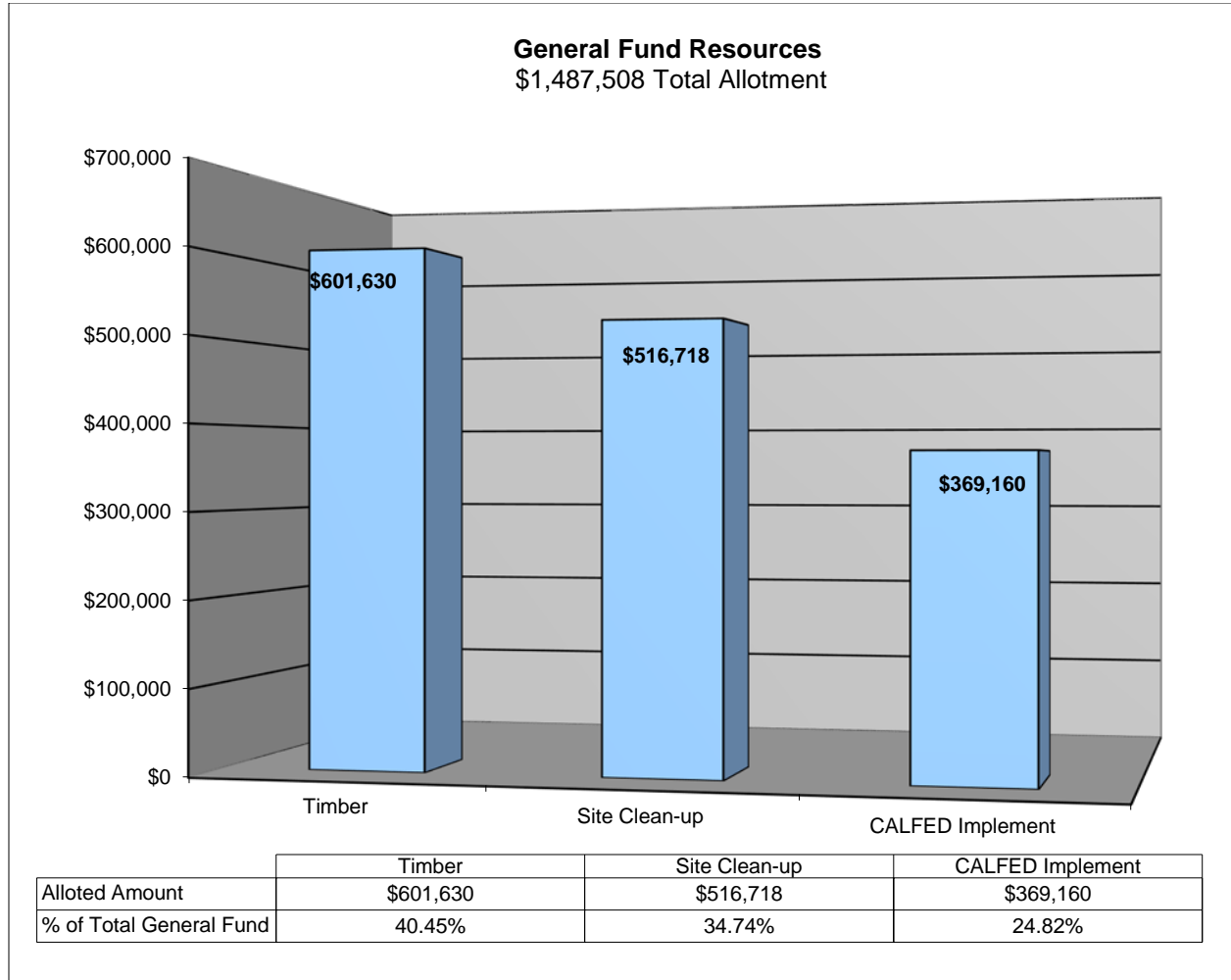
Key Funds:

Key funds are provided through General, Federal (Lawrence Livermore, Leaking Underground Storage Tanks, Non-Point Source, and NPDES), and Waste Discharge Permit fund sources.



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	04/18/17	03/31/19	\$ 40,000
15-077-150 Am. 1	Basic Laboratory	Lab analysis -- Redding Office	01/31/16	01/31/19	\$ 110,000
16-018-150	Monterey Bay Analytical	Lab analysis -- Rancho Office	07/20/16	06/30/18	\$ 160,000
15-011-150 Am. 1	Moore Twining	Lab analysis -- Fresno Office	01/31/16	01/31/19	\$ 130,000
17-150-001	Class Act Alliance	Professional sign language interpretation	07/01/17	06/30/18	\$ 1,160
TBD	California Reporting	Off-site court reporting	TBD	06/30/19	\$ 4,999
15-072-150 - Am.1	California Reporting	Court reporter services in Rancho Cordova	07/01/15	06/30/19	\$ 36,000
17-034-150	TBD	Helicopter inspection services -- Redding		09/30/20	\$60,000
WATER QUALITY STUDY/PLANNING					
14-043-150-2	Department of Water Resources	Water quality trends	11/01/14	03/31/18	\$ 150,207
15-035-150, Am. 1	Regents of UC Davis	Large scale analysis of annual report data	08/14/15	03/31/18	\$ 150,000
15-047-150	San Jose State Foundation	Support for Statewide Mercury Control Program	01/06/16	03/31/18	\$ 200,000
15-084-150	USGS	Sampling validation	04/01/16	03/31/18	\$ 19,968
16-048-150	UC Santa Cruz	Evaluation of temperature criteria to recommend methodology for deriving temperature criteria.	03/13/17	03/31/19	\$ 396,250
16-074-150	Lawrence Berkeley National Lab	Produce testing	02/27/17	06/30/18	\$ 250,000
16-074-150, Am. 1	Lawrence Berkeley National Lab	Plant, soil and water testing	TBD	6/30/19	\$183,511
17-150-022	DWR	Operation and maintenance in-stream water monitoring stations (North and South Fork Battle Creek)	TBD	06/30/20	\$ 180,000
17-022-150	Department of Water Resources	Ongoing operation and maintenance - SWAMP	TBD	06/30/20	\$ 180,000
TBD	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP)	TBD	06/30/20	\$ 154,191

		WATER QUALITY STUDY/PLANNING			
17-080-150	UC Davis	Interpretation of Soil Chemistry	TBD	03/31/20	\$199,987
17-065-150	USGS	Non-point source aquatic passive sampling study plan (Phase 2)	TBD	24 months	190,000
17-081-150	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads and cycling and characterize ecosystem response under current and future scenarios.	TBD	3/31/20	\$400,000
TBD	Dept. of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams	TBD	6/30/20	\$154,055
17-069-150	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams	TBD	06/30/20	\$ 135,500

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.

FEBRUARY 2018 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- Olam Tomato (Revised WDRs)
- Pacific Coast Producers (Revised WDRs)
- City of Newman (Revised WDRs)
- Delicato Family Vineyards (Amended WDRs)
- Synagro Clay Station (Revised WDRs)
- Riverdale WWTF (Revised WDRs)
- Primex Pistachios (New WDRs)
- Ingomar Packing (Revised WDRs)
- SPI Anderson Facility (Revised WDRs)

NPDES PERMITTING

- Limited Threat General Order Amendment
- El Dorado Hills WWTP Rescission
- Meridian Beartrack Co, RMK Mine Renewal

LOCAL AREA MANAGEMENT PROGRAM APPROVALS

- Tulare County

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Recology Ostrom Road Landfill, Yuba County (Revised WDRs)
- Auburn Landfill, Placer County (Revised WDRs)

CONFINED ANIMAL FACILITIES PROGRAM

- Revision of the Poultry General Order (Revised WDRs)

APRIL 2018 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- City of Lathrop CTF (Revised WDRs)
- Copper Cover WWTF (Revised WDRs)
- Lerdo Sheriffs WWTF (Revised WDRs)
- Corcoran WWTF (Revised WDRs)
- Visalia WWTF (Revised WDRs)
- Fresno WWTF (Revised WDRs)
- Bridge Bay Marina (revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Southeast Regional Landfill, Fresno County (Revised WDRs)
- Midway Solid Waste Disposal Site, San Luis Obispo County (Revised WDRs)
- Waiver for Disaster-Related Wastes
- Buena Vista Class II LF (Revised WDRs)

- Union Mine Landfill (Revised)
- Alturas Landfill
- Midway Landfill

NPDES PERMITTING

- Kiefer Landfill GWETS Rescission
- CCWD Copper Cove WWTP Renewal
- City of Colfax WWTF Renewal
- Cutler-Orosi WWTF Renewal
- City of Red Bluff WWRP Renewal

CONFINED ANIMAL FACILITIES PROGRAM

Revision of the Poultry General Order (Revised WDRs)

JUNE 2018 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- Stratford WWTF (Revised WDRs)
- Treehouse Almonds (Revised WDRs)
- Lion Raisins (Revised WDRs)
- SPI Oroville Cedar Mill (Revised WDRs)
- Bully Hill/Rising Star Mines

NPDES PERMITTING

- CalMat Sand and Gravel Plant Renewal
- City of Redding, Stillwater WWTF Renewal
- Kinder Morgan Fox Rd GWTS Renewal
- City of Brentwood WWTP Renewal
- Yuba City WWTF Renewal
- City of Jackson WWTP Renewal
- City of Dunsmuir WWTP Renewal

LOCAL AREA MANAGEMENT PROGRAM APPROVALS

- Kings County
- Tulare County
- Tuolumne County
- Lake County
- Sierra County
- Yuba County

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- City of Sac, Cannon and Scallon Properties (New WDRs)

PENDING ACTIONS, BUT NOT YET SCHEDULED FOR A BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISPOSAL TO LAND

- Barrel Ten Winery (Revised WDRs)
- Bully Hill Rising Star Mines (New WDRs)
- CA Dept. of Corrections, Mule Creek State Prison (Revised WDRs)

- Calaveras County Water District, Copper Cove WWTF (Revised WDRs)
- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Lone (Revised WDRs)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Lemoore WWTF (Revised WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto WWTF (Revised WDRs)
- City of Patterson 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 Spreckels Mendota Facility (New WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- Ironhouse Sanitation District (Revised WDRs)
- Liberty Packing Tomato Processing (Revised WDRs)
- Lions Raisins Selma Plant (Revised WDRs)
- Leprino Foods Lemoore (Revised WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- Morningstar Packing Company (Revised WDRs)
- North State Rendering Tallow Plant (Revised WDRs)
- Olson Meats (Revised WDRs)
- Bridge Bay Marina and Resort (Revised WDRs)
- Sacramento Rendering (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)
- Tomatek and City of Firebaugh (Revised WDRs)
- Tasteful Selections (Revised WDRs)
- Wonderful Pistachios (Revised WDRs)
- Yocha De He Tribe (Revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Union Mine Landfill, El Dorado County (Revised WDRs)
- Winters Landfill, Yolo County (Revised WDRs)
- Eastlake Landfill, Lake County (Revised WDRs)
- Butts Canyon Road Geothermal Power Plant Facility (New WDRs)
- Highway 59 Landfill, Merced County (Revised WDRs)
- City of Lemoore, Leprino Foods, Surface Impoundment, Kings County (New WDRs)

NPDES PROGRAM – PERMITTING

- City of Atwater, Regional WWTF Rescission
- SPI Anderson Rescission
- Malaga WWTF Rescission
- Portola WWTP Renewal
- City of Visalia WWTF Rescission

- Davis WWTP Renewal
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Delleker WWTP Renewal
- CCWD, Forest Meadows WWTP Renewal
- City of Lodi, White Slough WPCF Renewal

CONFINED ANIMAL FACILITIES PROGRAM

- Dairy General Order (Revised WDRs)

STORMWATER AND 401 CERTS

- General Order for Dredging Activities not requiring a Federal Permit/General 401 Certification for Dredging Activities requiring a Federal Permit
Informational Item – Sacramento Area MS4: Water Quality & Homeless Encampments

SIGNIFICANT POLICIES, PLANS AND PERMITS TABLE

See next Page

Significant Policies, Plans and Permits Under Development or Pending Development

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-15	Central Valley Pyrethroids Basin Plan Amendment	<p>2017-11-15 The Basin Plan Amendment was adopted by the Central Valley Water Board on 8 June 2017. The Amendment still needs State Water Board, OAL and USEPA approval before becoming fully effective.</p>	Regional	R5
A-15	Central Valley Diuron Basin Plan Amendment	<p>2017-11-15 A review of the most current water quality information indicates the Irrigated Lands Regulatory Program is effectively addressing all diuron impairments. Therefore staff is preparing documentation for de-listing or listing the impairments as being addressed by an existing regulatory program. 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.</p>	Regional	R5

A-16	Establish New Water Quality Objectives for Salinity and Boron in the Lower San Joaquin River - Amendment to the Sacramento River and San Joaquin River Basin Plan.	2017-09-20 A Regional Board workshop was held on 17 August 2016 and Board Hearing in April 2017. The Central Valley Water Board adopted the proposed amendment on 8/9 June 2017.	Regional	R5
A-16	Revisions to General Order for Poultry Facilities	2017-09-20 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 February 2018.	Regional	R5
*A-16	Phase I update of the Bay-Delta Plan:- San Joaquin River flows and Southern Delta Salinity.	2017-10-17 The Draft Substitute Environmental Document (SED) was released on December 31, 2012 for public comment. Hearing to receive comments on the SED was held on March 20-21, 2013, and comments were received by March 29, 2013. Revised Draft SED to be recirculated for public comment in summer of 2016. Draft plan amendment to be brought to the Board for consideration in early 2017.	Statewide	SB

A-16	Big Creeks Projects - Clean Water Act, Section 401, Water Quality Certification	<p>2016-10-25 The State Water Board is developing a water quality certification and associated California Environmental Quality Act (CEQA) document for six hydroelectric projects that are owned and operated by Southern California Edison Company in Fresno and Madera counties: Big Creek Nos. 2A, 8, and Eastwood; Big Creek No. 3; Mammoth Pool; Vermillion Valley; Portal; and Big Creeks Nos. 1 and 2. The water quality certification will become part of the Federal Energy Regulatory Commission licenses for the six projects. The draft certification and draft CEQA document are expected to be released for public review in the Fourth Quarter 2016.</p>	Statewide	SB
Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Surface Water Augmentation with Recycled Water Regulations	<p>2017-04-24 The Division of Drinking Water is currently finalizing the regulation package regarding the use of recycled water to augment surface water reservoirs used for drinking water supplies. As required by Water Code sections 13562 and 13565, an Expert Panel was assembled to review the criteria and to ultimately make a finding that the criteria are protective of public health. The Expert Panel reviewed the initial draft regulation, which was then submitted for completion of the peer review process required via H&SC section 57004. The Expert Panel reviewed the peer review</p>	Statewide	SB

		comments, subsequent revisions to the draft regulations, and made a finding that the criteria are protective of public health.		
A-17	Revised Total Coliform Rule	2017-04-24 The Federal Revised Total Coliform Rule became effective on April 1, 2016. Division of Drinking Water staff are in the process of drafting state regulations that are at least as stringent as federal regulations but include California-specific requirements. Staff anticipate releasing draft regulations in the spring of 2017 during public workshops, with a public review period later in 2017 and a proposed Board Adoption date in mid 2018.	Statewide	SB
A-17	Bacteria Standards for Ocean and Inland Surface Waters	2017-11-27 The State Water Board is developing proposed statewide bacteria water quality objectives and implementation options for the control of bacteria to protect human health in waters designated for water contact recreation (REC-1). This project also includes a general water quality standards variance policy applicable to all pollutants. The proposed bacteria water quality objectives and applicable implementation options if adopted will be included within the Water Quality Control Plan for Inland Surface Water, Enclosed Bays, and Estuaries of California and the Water Quality Control Plan for Ocean Water of California. Staff released the draft documents for public comment on June 30, 2017. A Staff Workshop was held on July 10, 2017 and Public Hearing was held on August 1, 2017. Thirty-three comment letters were received. Staff is presently responding to the comment letters. The State Water Board will consider adoption on February 6, 2017. State Board Web site: http://www.waterboards.ca.gov/bacterialobjectives/	Statewide	SB
A-17	Statewide Aggregate General Order	2017-02-15 DWQ is preparing a statewide general order for aggregate processing facilities that discharge to land.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
*A-17	Phase II update of the Bay-Delta Plan: Comprehensive Review	<p>2017-10-17 State Water Board staff is in the process of a phased review and update of the 2006 Water Quality Control Plan for the Bay-Delta (2006 Bay-Delta Plan). The second phase of the review focuses on the following issues: (1) Delta outflow objectives, (2) export/inflow objectives, (3) Delta Cross Channel Gate closure objectives, (4) Suisun Marsh objectives; (5) potential new reverse flow objectives for Old and Middle Rivers; (6) potential new floodplain habitat flow objectives; (7) potential changes to the monitoring and special studies program, and (8) other potential changes to the program of implementation. Staff is preparing a Scientific Basis Report that will provide the underlying scientific support for proposed flow and water quality objectives. The Report will consider recommendations provided in the Delta Science Program's Workshops Panel Summary Reports on Delta Outflows and Related Stressors (May 2014) and Interior Delta Flows and Related Stressors (July 2014). The working draft Scientific Basis Report is expected to be released for public review in late spring/early summer 2016. Staff is also developing a Substitute Environmental Document that will provide an evaluation of the potential environmental impacts of the proposed changes to the Bay-Delta Plan. This document is expected to be released for public review in 2017.</p>	Statewide	SB
A-17	Unified Program Underground Storage Tank Surcharge Increase	<p>2017-08-29 Underground Storage Tank (UST) Leak Prevention Program, as part of the CalEPA Unified Program, is funded by a surcharge applied to each operating UST. Surcharge funding is authorized by California Health and Safety Code. Revenue from the surcharge is intended to cover operating costs at the State Water Resources Control Board to oversee and implement the program, however the current amount fails to do so. CalEPA has completed the rulemaking process, and the Office of Administrative Law has approved the regulations which increase the UST surcharge which becomes effective August 2017. A Budget Change Proposal for increased spending authority is under development, along with an additional surcharge increase.</p>	Statewide	SB

A-17	Industrial General Storm Water Permit Amendment for TMDL Implementation	<p>2017-11-27 The State Water Board has noticed the public hearing (January 9, 2018) and public comment period on the proposed Industrial General Permit Amendment to 1) Implement TMDLs included in Attachment E of the General Permit, 2) Update the monitoring requirements for compliance with the new federal Sufficiently Sensitive Methods Rule, and 3) Add statewide compliance options to incentivize storm water capture and regional collaboration, as appropriate. In addition to standard notification procedures, State Water Board staff emailed specific amendment information to the regulated community located in TMDL watersheds and to the regulated community complying with this General Permit's Level 2 reporting. A State Water Board Adoption meeting for the proposed Amendment is anticipated in 2018. More information can be found at the program webpage: https://www.waterboards.ca.gov/water_issues/programs/stormwater/industrial.shtml</p>	Statewide	SB
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Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Mercury TMDL and Implementation Plan (Statewide Reservoirs)	<p>2017-11-06 Staff from Regions 2 and 5 and State Water Board are developing a TMDL and implementation plan to address fish mercury(Hg) impairments in about 130 reservoirs statewide. Staff prepared the scientific and technical analysis (source analysis, linkage, targets, allocations, and implementation plan options), and regulatory provisions for the implementation plan. The scientific peer review version of the staff report is posted on the project website. Staff are holding reservoir owner/operator meetings in Oct and Nov.</p>	Statewide	R5
A-17	Petition Order for Central Valley Regional Board's Eastern San Joaquin Agricultural Order	<p>2017-11-09 On October 10, 2017, the State Water Board released a proposed order, SWRCB/OCC File A-2239(a)-(c), in response to petitions for review of the Central Valley Regional Water Quality Control Board's Eastern San Joaquin Agricultural Order. A Board workshop will be held at the Cal/EPA Building in Sacramento on December 6, 2017. Additional Board workshops will be held in Fresno on November 27, 2017 and in Redding on November 30, 2017 to provide an opportunity for petition staff to ask detailed questions. The deadline for written public comments is December 15, 2017, with final action anticipated to be taken at the Board meeting on January 23, 2018.</p>	Statewide	SB
*A-17	Maximum Contaminant Level (MCL) for 1,2,3-Trichloropropane (1,2,3-TCP)	<p>2017-04-24 Division of Drinking Water staff completed the regulatory documents needed to proceed to public comment, and as of April 21, 2017 have managed and finished the public comment period, including a public hearing on April 19. Staff are currently in the process of reviewing and responding to the public comments in a final document prior to bringing the final regulation package to the Board for adoption. Staff anticipate a Board Adoption date in the spring/summer of 2017, after which the adopted regulations will be sent to OAL for final review and approval. The MCL is anticipated to be effective in the summer or fall of 2017.</p>	Statewide	SB

A-17	Supplemental Environmental Projects (SEP)	2017-10-15 Assembly Bill 1071 requires us to update SEP policy. MCC meeting in March. Workshop held on 8/16/17 and public hearing on 9/20/17. Close of public comment on 9/25/17. Adoption hearing scheduled for 11/21/17.	Statewide	SB
A-17	Discharges from Construction and Maintenance of Natural Gas Facilities	2017-11-27 State Water Board staff has worked with stakeholders (including gas companies and Native American Tribal representatives) to develop a draft mitigated negative declaration, and a proposed Statewide General Order to regulate discharges from construction, hydrostatic testing, operation, and maintenance of natural gas facilities. The proposed Statewide General Order will provide regulatory coverage for discharges to surface water and land, and will allow the use of recycled water as hydrostatic testing source water. The draft mitigated negative declaration and proposed General Order was released for public comments on August 27, 2017, with the mitigated negative declaration provided to the State Clearinghouse for distribution. State Water Board conducted a public hearing on October 3, 2017 to hear stakeholders' comments, prior to the end of the public comment period on October 10, 2017. The State Water Board is scheduled to consider adoption of these items on December 5, 2017.		

Key	Item	Status	Statewide or Regional Project	Org. Lead
A-17	Procedures for Discharges of Dredged or Fill Materials to Waters of the State (Proposed for Inclusion in the Water Quality Control Plan for Inland Surface Waters and Enclosed Bays and Estuaries)	2017-11-09 State Water Board staff is developing proposed Procedures for Discharges of Dredged or Fill Materials to Waters of the State (Procedures). The draft Procedures were released for a second round of public comments on July 21, 2017, and the Board held a hearing on September 6, 2017. Two public workshops were also held on August 4th in Sacramento and on August 10th in San Diego. The public comment period closed on September 18, 2016, with in excess of 6,000 timely comments received. Staff is now reviewing comments and considering proposed responses and revisions to the Procedures. Adoption is tentatively for scheduled for March 2018.	Statewide	SB
A-17	Approval of the CWA Section 303(d) List portion of the 2014 and 2016 California Integrated Report	2017-08-22 The 2018 California Integrated Report will consist of a complete assessment of data and information for the North Coast, Lahontan, and Colorado River regions. The other six regional water boards will have the opportunity to include high priority listings and delistings off-cycle. The data solicitation period ended on May 3, 2017. State and Regional Water Board staff will be assessing the data with a tentative State Water Board approval scheduled for May of 2019.	Statewide	SB

*A-17	Small Municipal Separate Storm Sewer System (MS4) Permit Amendment, Attachment G	2017-10-10 State Water Board staff developed a proposed amendment for the Small MS4 Statewide General Permit, Attachment G (titled Region-specific Total Maximum Daily Loads (TMDL) Implementation Requirements). The proposed amendment includes: (1) new and revised implementation requirements based on corresponding TMDL waste load allocations, and (2) final compliance dates for the TMDL waste load allocations. The proposed TMDL Amendments were released to the Public on June 5, 2017, for a 45-day review and comment period. In response to commenters' letters requesting additional time, the State Water Board Chair approved additional time and the comments were due to the Clerk of the State Water Board by August 21, 2017. Staff is reviewing the comment letters and developing the responses to the comments and staff report. These documents will be available to the public prior to the Board Hearing to consider adoption of the TMDL Amendments on December 19, 2017.	Statewide	SB
A-17	Sediment Quality Objectives (SQOs) for Enclosed Bays and Estuaries: Phase II*	2017-11-15 Water Board staff is developing a methodology to assess sediment quality in relation to the narrative human health SQO that protects human consumers from contaminants that bioaccumulate from the sediment into fish tissue. Several groups and committees, including the SQO Advisory Committee, the Agency Coordination Committee, and the Harbor Technical Work Group, are collaborating on studies that will assist in the development, testing, and implementation of Phase II SQOs. The case study and test drive were completed in August 2017 and draft documents were released on October 24, 2017. The public comment period closes on December 14, 2017. A public hearing is scheduled for December 5, 2017 and board adoption anticipated for April 2018.	Statewide	SB
Key	Item	Status	Statewide or Regional Project	Org. Lead
A-18	Permanent (Regular) Regulations for Point Of Use/Point of Entry Treatment Devices	2017-04-24 The State Water Board will be adopting permanent regulations governing the use of point-of-use and point-of-entry treatment devices by a public water system (PWS), in lieu of centralized treatment. Existing law requires the State Water Board to first adopt emergency regulations, followed by standard regulations, to establish criteria for applicable PWS that choose to provide treatment for drinking water through the use of POU or POE treatment devices. Emergency regulations were adopted by the Board on March 15, 2016 and became effective on April 1, 2016. Permanent regulations have to be effective by January 1, 2018 and Division of Drinking Water staff are in the process of drafting the permanent regulations.	Statewide	SB
A-18	Biostimulatory & Biological integrity Project	2017-11-27 The State Water Board is proposing to adopt a statewide water quality objective for biostimulatory substances along with a program of implementation as an amendment to the Water Quality Control Plan for Inland Surface Water, Enclosed Bays and Estuaries of California. This project will also include a water quality control policy to establish and implement biological condition assessment methods, scoring tools, and targets aimed at protecting the biological integrity in wadeable streams. Some of the technical work being done by SCCWRP to support this project is nearing completion (the Biological Condition Gradient Model and Algal Stream Condition Index). Stakeholders met at the end of July to review and discuss these products. A Regulatory Advisory Group meeting was held on 8/31 to discuss issues raised by stakeholder and to discuss policy options so that staff can begin documenting options and preparing draft provisions and staff reports.	Statewide	SB

A-18	Statewide General Waste Discharge Requirements Order for Wineries	2017-06-23 State Water Board staff has prepared a concept paper for developing a statewide general order for wineries. Staff is collaborating with stakeholders to prepare a draft requirements matrix. Staff continues to hold meetings with wine industry representatives and additional outreach meetings will be scheduled.	Statewide	SB
A-18	Revisions to General Order for Poultry Facilities	2017-09-20 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 February 2018.	Regional	R5

Key	Item	Status	Statewide or Regional Project	Org. Lead
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A-18	Revised UST Regulations	<p>2017-11-01 State Water Resources Control Board staff is updating the underground storage tank (UST) regulations contained in California Code of Regulations, title 23 (UST regulations) to be at least as stringent as the revised 2015 Federal UST regulations contained in 40 Code of Federal Regulations, part 280 (Federal UST regulations). Until the UST regulations are updated to be at least as stringent as the Federal UST regulations, UST owners and operators must meet both the UST regulations and the Federal UST regulations. On January 24, 2017 a focus workgroup, composed of various stakeholders, was held to review language drafted to reconcile UST regulations with Federal UST regulations. Staff held two public workshops with additional stakeholders on March 13, 2017 and March 28, 2017. State Water Board staff submitted a draft of the proposed regulations to the United States Environmental Protection Agency (U.S. EPA) Region 9 and requested a review from the U.S. EPA and U.S. EPA Region 9 to evaluate if the proposed language is at least as stringent as, or provides equivalency to, the Federal UST Regulations. Finally, State Water Board staff conducted a trial with UST inspection and testing companies of the proposed forms documenting required UST inspections and testing. State Water Board staff considered and, as appropriate, incorporated into the proposed regulations the comments received from the workgroup, workshops, UST inspection and testing companies, U.S. EPA, and U.S. EPA Region 9. The Notice Publication/Regulations Submission (Standard Form 400), Notice of Public Regulatory Action, text of proposed amendments, Initial Statement of Reasons, Economic and Fiscal Impact Statement (Standard Form 399), Supplemental Economic and Fiscal Impact Statement, and Federal and Amended California UST Regulations Crosswalk are currently being internally reviewed for approval from the executive office to publicly notice. State Water Board staff anticipates the public noticing and the first official 45-day written public comment period to begin November 17, 2017 and end at noon on January 2, 2018. A public hearing will be held, if one is requested, in February 2018. The State Water Board consideration of adoption of the proposed amendment is anticipated May 2018. The proposed amendments will then become effective July 1, 2018.</p>	Statewide	SB
A-18	Environmental Laboratory Accreditation Regulations	<p>2017-04-24 Division of Drinking Water staff will draft new regulations governing the accreditation of laboratories regulated by the Environmental Laboratory Accreditation Program (ELAP). The draft regulations will be clearly written and ensure standards for laboratory compliance is auditable and enforceable. The draft regulations are in development and staff anticipate holding staff workshops on the draft regulations Summer 2017, initiate the formal rulemaking process late 2017 and bring the proposed draft regulations to the State Board early 2018 for adoption.</p>	Statewide	SB
A-18	Suction Dredge Mining Activity	<p>2017-11-09 Senate Bill 637 amended the California Water Code and the California Fish and Game Code to address the existing moratorium on suction dredge mining. As amended, the Water Code requires the State Water Board to gather stakeholder input to assist in its determination regarding how to regulate suction dredge mining activities. State Water Board staff conducted five public outreach workshops throughout the State in January and February 2017. Staff is evaluating the information gathered during the workshops to determine the appropriate proposed permitting action for the State Water Board to consider for regulation of suction dredge mining activities.</p>	Statewide	SB
Key	Item	Status	Statewide or Regional Project	Org. Lead

A-18	Toxicity Amendments to the Inland Surface Waters, Enclosed Bays, and Estuaries Plan	2017-11-16 State Water Resources Board staff are preparing provisions for toxicity, which if adopted by the Board will be included in the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays and Estuaries of California. If adopted, the proposed Provisions would establish numeric acute and chronic objectives for aquatic toxicity; establish effluent limits for non-storm water NPDES dischargers; incorporate the United States Environmental Protection Agency's (U.S. EPA's) Test of Significant Toxicity (TST) statistical approach for data analysis; and establish monitoring requirements for wastewater discharges to inland surface waters, enclosed bays, and estuaries in California. Staff held outreach meetings in April 2017 to receive feedback from stakeholders and interested parties on the proposed Provisions. Public release of the draft staff report and proposed amendment is anticipated for January 2018 with a staff workshop in February 2018 and a board hearing in March 2018. The proposed amendment is anticipated to be presented to the Board for consideration in August 2018.	Statewide	SB
A-18	Water Quality Objectives for Ammonia	2017-11-16 Scoping meetings held on 15, 16 and 22 March in Rancho Cordova, Fresno and Redding, respectively. Agency meeting held 24 May.	Regional	R5
A-18	Nonpoint Source (NPS) Implementation and Enforcement Policy Amendments	2017-09-22 The NPS Implementation and Enforcement Policy (NPS Policy) is being updated as directed by Resolution 2012-0004 to reflect the current funding mechanisms for State Water Board and Regional Water Board regulation of nonpoint source wastewater discharges.	Statewide	SB
A-18	Statewide Urban Pesticides Reduction	2017-11-15 The State Water Board is developing a statewide multi-agency Strategy to Minimize Urban Pesticides that will be proposed as amendments to both the Inland Surface Waters, Enclosed Bays, and Estuaries Plan, and to the Ocean Plan. A multi-stakeholder project team (shifted into an advisory committee in April 2017) provided information and materials for development of the following amendment components(1) an inter-agency coordination framework, (2) a regional monitoring framework, and (3) suggested permit language for MS4 permittees. Staff anticipates public release of the proposed amendments in Mid 2018.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
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A	Amendment to the Recycled Water Policy	2017-11-17 The State Water Board adopted a resolution December 6, 2016 directing staff to amend the Recycled Water Policy and re-convene the Science Advisory Panel for Constituents of Emerging Concern and release a draft for public comment by March 2018. State Water Board staff conducted initial targeted stakeholder listening sessions in March and November 2017. State Water Board staff has the following two meetings to consult with any person or organization concerned with the environmental effects of the proposed amendment (CCR §15083): • December 1, 2017, 10:00 a.m.-12:00 p.m. in Sacramento, CalEPA, Klamath Room • December 5, 2017, 10:00 a.m.-12:00 p.m. in San Diego, San Diego Regional Water Board There will also be two staff workshops to discuss specific details of the proposed amendment: • January 4, 2018, 9:00 a.m.-12:00 p.m. in Sacramento, Cal EPA, Byron Sher Auditorium • January 11, 2018, 9:00 a.m.-12:00 p.m. in Fountain Valley, Orange County Water District Lastly, the Science Advisory Panel for CECs in Recycled Water will present their findings and recommendations at a public meeting: • December 15, 2017, 9:00 a.m.-11:00 a.m. in Sacramento, CA, CalEPA, Klamath Room.	Statewide	SB
C	Onsite Wastewater Treatment Systems (OWTS) Policy Implementation	2017-06-05 The Local Agency Management Plan (LAMP) Guidance document was transmitted to the Regional Water Boards on June 4, 2015. All of the Regional Water Boards have amended their Basin Plans to implement the OWTS Policy. The State Water Board approved the amendments for Regions 1 through 9. State and Regional Water Board staff have been meeting with local agencies to facilitate LAMP development. On June 24, 2016, State Water Board staff held an informational forum with the Regional Boards to discuss policy implementation, LAMP submittals and reviews, challenges & successes, and statewide program coordination. To date, 21 LAMPs have been approved by Regional Boards. State Water Board staff have begun the OWTS Policy conditional waiver update process. (The conditional waiver expires on May 13, 2018.)	Statewide	SB
A	Harmful Algal Bloom Response	2017-06-30 State Water Board staff are working with a multi-entity workgroup consisting of the Water Boards, California Department of Public Health, Office of Environmental Health Hazard Assessment, United States Environmental Protection Agency, California Fish and Wildlife, the Department of Water Resources, tribes, water managers, and other interested parties to collaboratively work toward solutions in protecting the public, pets, livestock, and wildlife from the effects of harmful algal blooms (HABs). The California Cyanobacteria Harmful Algal Bloom Network meets quarterly in January, April, July, and October.	Statewide	SB
A	SB 83, Section 45 - Produced Water Pond Report	2017-08-29 The State Water Board posted on its website a status report on the regulation of oil field produced water ponds within each region. Link to report: http://www.waterboards.ca.gov/water_issues/programs/groundwater/sb4/index.shtml . Produced water is water extracted during oil production. The report included a tally of produced water ponds statewide by region, the number of permitted and unpermitted ponds, enforcement actions taken, and the status of permitting the unpermitted sites. The report will be updated every six months.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
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A	CV-SALTS Developing a Salinity and Nitrate Management Plan for all basins in the Central Valley Basin Plan Amendment for the Sacramento River and San Joaquin River Basin Plan, Tulare Lake Basin Plan and the Delta Water Quality Control Plan	2017-09-19 Salt and Nitrate Management Plan posted a www.cvsalinity.org at the end of 2016 and formally submitted to the Central Valley Water Board on 12 January 2017. Board accepted receipt of SNMP on 9 March 2017 and directed staff to begin Basin Plan Amendment. Staff are currently developing basin plan amendment language with stakeholder input.	Regional	R5
A	Revision of General Order for Existing Dairies	2017-11-15 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 and anticipates Regional Board consideration of the revised General Order in mid-2018.	Regional	R5
A	Approval of the CWA Section 303(d) List portion of the 2018 California Integrated Report	2017-08-22 The 2018 California Integrated Report will consist of a complete assessment of data and information for the North Coast, Lahontan, and Colorado River regions. The other six regional water boards will have the opportunity to include high priority listings and delistings off-cycle. The data solicitation period ended on May 3, 2017. State and Regional Water Board staff will be assessing the data with a tentative State Water Board approval scheduled for May of 2019.	Statewide	SB
A	Implement Lower San Joaquin River Salt/Boron TMDL	2017-11-15 TMDL requires USBR and agricultural dischargers to operate under WDRs with monthly salt load allocations OR the development of MAA with USBR to mitigate salt loading to river and operation under a Central Valley Water Board approved real-time salinity management program (RTMP) for agricultural dischargers. Both updated MAA and a phased RTMP approved during 4 December 2014 Central Valley Water Board meeting (Resolutions R5-2014-0150 and R5-2014-0151, respectively). Salt load allocations also incorporated into appropriate Ag Coalition WDRs with option to participate in Board approved RTMP. USBR submitted annual reports. The RTMP stakeholders formed a steering committee in October 2015. USBR FY17/18 Annual Workplan was accepted by the Central Valley Water Board in Sept. 2017.	Regional	R5

Key	Item	Status	Statewide or Regional Project	Org. Lead
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A	New winery waste guidelines	2017-11-27 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.	Regional	R5
A	Development of water quality criteria for the herbicides oxyfluorfen, prometryn, simazine and trifluralin and the insecticide fipronil. Recommended aquatic life criteria are being developed UC Davis under contract with RB5.	2017-09-19 Draft UC Davis criteria documents for the four herbicides were released for public comment (including comments on potential peer review topics) in June 2016. The Draft fipronil criteria document was released for public comment (including comments on potential peer review topics) in October 2016. Peer reviews were completed in November 2016 and February 2017. Final reports were released in July 2017. for more information please see: http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/criteria_method/	Regional	R5
A	USFS MOU for BAER activities	2016-05-20 Staff has engaged the USFS in drafting an MOU that will outline the process by which the Regional Boards may choose to participate in USFS Burned Area Emergency Response (BAER) teams. Temporarily on hold due to vacancies at the Regional USFS office.	Regional	R5
A	Development of permit for Federal Non-Point Source activities on Forest Lands	2017-11-16 R5 staff is working with the USFS and the BLM to develop a permit to cover NPS activities 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. Additionally, our region is collaborating on this project with R6 and are currently working on a joint public participation plan. Project information can be found here: http://www.waterboards.ca.gov/lahontan/water_issues/programs/nps/federal_lands/	Regional	R5
A	Delta Regional Monitoring Program- RMP	2017-11-06 The Delta RMP work plan and budget for FY17/18 includes monitoring for mercury in water and fish at multiple sites and an initial assessment of nutrient spatial variability across the Delta. The Steering Committee has not yet approved a work plan for pesticides and toxicity monitoring.	Statewide	SB
A	Cadmium Objective and Hardness Implementation Policy	2017-06-28 Staff are working to update the cadmium objectives to insure that the objectives are protective of threatened and endangered species in accordance with the Endangered Species Act. Cadmium is a hardness dependent metal, so the project is linked with a Hardness Implementation Policy to provide guidance to Regional Board staff in determining hardness for setting effluent limits. The project is currently on hold pending available staff resources.	Statewide	SB
Key	Item	Status	Statewide or Regional Project	Org. Lead

A	Statewide Storm Water Construction General Permit Reissuance	2017-11-27 State Water Board staff is developing the draft permit language for the reissuance of the Statewide Storm Water Construction General Permit (also referred to as the CGP). The proposed CGP reissuance will include implementation of Total Maximum Daily Loads and revisions to update the CGP requirements per information collected during the term of the existing permit. Information on the development of the proposed permit reissuance, including stakeholder outreach information, is posted on the State Water Board's Construction Storm Water Program website at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.shtml . The proposed public comment period for the draft permit is July 2018.	Statewide	SB
A	Once-Through Cooling Policy - Diablo Canyon Closure	2017-11-22 In December 2016, Pacific Gas and Electric Company provided information to the State Water Board regarding the OTC-Policy interim mitigation fee requirements for Diablo Canyon Nuclear Power Plant. Staff evaluated the information, and released a draft determination for public comment on Sept 5, 2017. The comment period closed on Sept. 28, 2017 at noon. Staff responded the comments, and currently Executive Director is considering the final determination.	Statewide	SB
A	Once-Through Cooling [OTC] Policy-Implementation, interim mitigation payments	2017-11-22 The Once-Through Cooling Policy requires owners or operators of existing power plants to implement measures to mitigate the interim impingement and entrainment impacts resulting from their cooling water intake structures. Staff reviewed the information provided by the power plants owners and operators to calculate the first annual interim mitigation payments. Default calculations were made for the Alamos, Harbor, Haynes, Huntington Beach, Mandalay, Ormond, Redondo Beach, and Scattergood generating stations. Site-specific calculations were developed for Diablo Canyon Nuclear Power Plant. Staff released the draft interim payment determinations for these nine facilities and is responding to comments. The Encina Power Station draft determination is being developed based on site-specific calculations, and it will be posted for public comments by early December.	Statewide	SB
A	Implement Mercury TMDL/Control Program in Cache Creek Watershed - Sacramento River and San Joaquin River Basin Plan	2017-11-06 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.	Regional	R5
P	Water Effects Ratios	2016-07-25 The project will establish criteria for developing site specific objectives for metals based on the water effect ratios for a specific water body. Staff will prepare a proposed Water Effects Ratio Policy at a future date.	Statewide	SB

Key	Item	Status	Statewide or Regional Project	Org. Lead
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P	Chlorine Amendment	2017-02-28 The draft Total Residual Chlorine and Chlorine-Produced Oxidants Policy of California is being converted into an amendment to the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California.	Statewide	SB
P	Antidegradation Policy	2017-10-27 The State Water Board issued a draft scoping document and held follow-up focused stakeholder meetings in June and July 2015. Comments from these meetings are summarized and posted on the program website. State Water Board staff is not actively working on a statewide policy for implementation of the Antidegradation Policy for discharges to groundwater. The draft Eastern San Joaquin River Watershed Agricultural Order addresses some of the larger issues the stakeholders identified during staff's outreach efforts. Staff will consider what additional guidance or regulatory action is necessary after the State Water Board issues a final order in the Eastern San Joaquin matter. The second draft order was released on October 10, 2017.	Statewide	SB
P	Modify the Beneficial Uses for Freshwater Aquatic Habitat and Remove Spawning for West Squaw Creek - Amendment to the Sacramento River and San Joaquin River Basin Plan	2017-09-19 Use Attainability Analysis was conducted to demonstrate the current beneficial uses assigned to West Squaw Creek, a stream heavily impacted by acid mine drainage, are not achievable. Specifically, the stream cannot support fish and other pH or metal sensitive aquatic species and spawning of selected fish species defined in the Basin Plan. A Staff Report including the proposed amendments and CEQA functional equivalent document was presented to the Regional Board on 9 July 2004. The Regional Board adopted Resolution R5-2004-0090 which included the UAA, Staff Report, Functional Equivalent Document and proposed amendments. BPA not accepted by State Board staff. Staff gathering additional information to respond to State Board and USEPA staff comments. Expected completion date 2018.	Regional	R5
P	New Manual of Good Practice for Land Application of Food Processing/Rinse Water	2017-09-20 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.	Regional	R5

Status Code Key:
White = Active effort (A)
Light Green = Targeted for completion in 2016 (A-16)
Lavender = Targeted for completion in 2017 (A-17)
Pink = Targeted for completion in 2018 (A-18)
Gray = Suspended or No statewide effort at this time or Pending (P)
Note: * indicates Board Priority

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills – Summary Report
 Count of Spills for August 2017 through September 2017

Count of Spills	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	
Month													
August 2017	1	0	7	8	2	0	1	3	2	0	68	70	81
September 2017	0	1	4	5	0	1	1	2	7	5	73	85	92
Total	1	1	11	13	2	1	2	5	9	5	141	155	173

Spill Cause	Count of Spills	%
Root intrusion	78	45.1%
Debris-General	28	16.2%
Operator Error	14	8.1%
Grease Deposition (FOG)	13	7.5%
Other	12	6.9%
Pipe Structural Problem/Failure	8	4.6%
Debris from Construction	4	2.3%
Debris-Rags	3	1.7%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	2	1.2%
Damage by Others Not Related to CS Construction/Maintenance	2	1.2%
Debris from Lateral	2	1.2%
Vandalism	2	1.2%
CS Maintenance Caused Spill/Damage	1	0.6%
Pipe Structural Problem/Failure - Installation	1	0.6%
Pump Station Failure-Controls	1	0.6%
Pump Station Failure-Mechanical	1	0.6%
Pump Station Failure-Power	1	0.6%
Grand Total	173	100%

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 - August 2017 through September 2017

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
5F	MD-22A Oakhurst CS	55SO11311	838911	Certified	Category 1	Break in China Creek	Madera	Yes	34,000	34,000	8/9/2017	Other (specify below)
5S	Lake Wildwood CS	55SO10984	838776	Certified	Category 1	19392 Chapatal Circle, Penn Valley CA 95946	Nevada	Yes	1,874	1,682	8/13/2017	Other (specify below)
5S	Sacramento Area Sewer District CS	55SO10912	840400	Certified	Category 1		196313 Sacramento	Yes	1,374	1,329	9/25/2017	Other (specify below)
5S	Lake Berryessa Resort CS	55SO10981	840225	Certified	Category 1	LBRID SS Force Main	Napa	Yes	1,000	1,000	9/20/2017	Pipe Structural Problem/Failure
5S	Sacramento Area Sewer District CS	55SO10912	840307	Certified	Category 1		196072 Sacramento	Yes	979	949	9/22/2017	Grease Deposition (FOG)
5S	Nevada City CS	55SO11011	840766	Certified	Category 1	222 Sacramento st nevada city Ca	Nevada	Yes	1,780	880	9/14/2017	Debris-Rags
5R	Delleker CS	55SO10810	838775	Certified	Category 1	Manhole 29	Plumas	Yes	500	500	8/12/2017	Grease Deposition (FOG)
5S	City of Sacramento Utilities CS	55SO10901	840212	Certified	Category 1	601 J street Sacramento, Ca.	Sacramento	Yes	240	240	9/20/2017	Other (specify below)
5S	Copper Cove CS	55SO10910	839630	Certified	Category 1	Lift station 12 Copperopolis	Calaveras	Yes	100	100	8/31/2017	Pump Station Failure-Power
5R	Red Bluff CS	55SO10845	838780	Certified	Category 1	Douglass st Second st	Tehama	Yes	235	55	8/11/2017	Other (specify below)
5S	California State University, Sacramento CS	55SO10882	839742	Certified	Category 1	Sacramento	Sacramento	Yes	50	50	9/6/2017	Debris from Construction
5S	Discovery Bay CS	55SO10929	839791	Certified	Category 1	Intersection of Newport Drive & Newport Circle	Contra Costa	Yes	270	20	9/8/2017	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
5F	Selma-Kingsburg-Fowler CS	55SO11466	839738	Certified	Category 2	15511 S McCall Ave	Fresno	No	71,423	0	9/4/2017	Other (specify below)
5S	Auburn Lk Tris Onsite WW Disp CS	55SO10869	840663	Certified	Category 2	Community Disposal Fields	El Dorado	No	31,944	0	9/27/2017	Pipe Structural Problem/Failure
5S	Mule Creek State Prison CS	55SO11005	839611	Certified	Category 2	Mule Creek State Prison	Amador	No	15,000	0	9/2/2017	Pump Station Failure-Controls
5S	Delta Diablo SD CS	25SO10127	839908	Certified	Category 2	Pittsburg Antioch Highway 500' east of Dow Wetland Entrance Gate	Contra Costa	No	9,678	0	9/10/2017	Pipe Structural Problem/Failure
5S	City of Stockton MUD CS	55SO11433	840210	Certified	Category 2	302 W. Ben Holt Drive	San Joaquin	No	5,877	0	9/24/2017	Pipe Structural Problem/Failure
5S	Copper Cove CS	55SO10910	840406	Certified	Category 2	Connors Force Main	Calaveras	No	2,600	0	9/28/2017	Pipe Structural Problem/Failure
5R	Red Bluff CS	55SO10845	839652	Certified	Category 2	500 Riverside	Tehama	No	2,100	0	9/1/2017	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	Folsom State Prison CS	55SO11192	839677	Certified	Category 3	Lift Station at Folsom Woman's Facility	Sacramento	No	750	0	9/6/2017	Pump Station Failure-Mechanical
5F	Wasco State Prison CS	55SO10775	840078	Certified	Category 3	Wasco State Prison	Kern	No	600	0	8/8/2017	Debris-Rags
5S	Sacramento Area Sewer District CS	55SO10912	841195	Certified	Category 3		194798 Sacramento	No	593	0	9/8/2017	Debris-General
5S	Dry Creek CS	55SO10935	840892	Certified	Category 3	9000 Washington Blvd	Placer	No	585	0	9/11/2017	Debris from Construction
5S	Sacramento Area Sewer District CS	55SO10912	840355	Certified	Category 3		192254 Sacramento	No	575	0	8/9/2017	Root intrusion
5S	Sacramento Area Sewer District CS	55SO10912	840340	Certified	Category 3		193986 Sacramento	No	550	0	8/28/2017	Root intrusion
5R	Corning Indust./Domestic CS	55SO10805	837872	Certified	Category 3	sunrise way, Corning, Ca.	Tehama	No	500	0	8/7/2017	Debris-General
5S	Murphys CS	55SO11007	840272	Certified	Category 3	Murphys Creek Subdivision	Calaveras	No	486	0	9/26/2017	Debris from Construction
5S	Sacramento Area Sewer District CS	55SO10912	840358	Certified	Category 3		193581 Sacramento	No	411	0	8/24/2017	Debris-General
5S	Sacramento Area Sewer District CS	55SO10912	841193	Certified	Category 3		196294 Sacramento	No	380	0	9/26/2017	Vandalism
5S	Sacramento Area Sewer District CS	55SO10912	841186	Certified	Category 3		196204 Sacramento	No	284	0	9/24/2017	Debris-General
5F	Grant Grove CS	55SO11676	839819	Certified	Category 3	Crystal Springs Campground	Fresno	No	250	0	8/15/2017	Root Intrusion
5S	South Placer Mud CS	55SO11054	841105	Certified	Category 3	5340 Second St, Rocklin, CA	Placer	No	210	0	9/11/2017	Root Intrusion
5F	City of Fresno CS	55SO11202	840730	Certified	Category 3	E. Olive Ave. & N. Chestnut Ave.	Fresno	No	202	0	9/7/2017	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
5S	South Placer Mud CS	55SO11054	841113	Certified	Category 3	6604 Clapper Rail Ct Rocklin Ca 95677. In front yard and onto sidewalk/gutter	Placer	No	176	0	9/15/2017	Other (specify below)
5S	Davis CS	55SO10921	838876	Certified	Category 3	640 Adams St.	Yolo	No	150	0	8/14/2017	Root Intrusion
5S	City of Stockton MUD CS	55SO11433	838087	Certified	Category 3	3505 Navy Drive Stockton Ca	San Joaquin	No	145	0	8/9/2017	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
5S	Sacramento Area Sewer District CS	55SO10912	841180	Certified	Category 3		194675 Sacramento	No	120	0	9/7/2017	Debris-General
5S	Sacramento Area Sewer District CS	55SO10912	840370	Certified	Category 3		192958 Sacramento	No	103	0	8/17/2017	Pipe Structural Problem/Failure - Installation
5S	Davis CS	55SO10921	839495	Certified	Category 3	1306 Oak Ave.	Yolo	No	100	0	8/29/2017	Root Intrusion
5R	Orland CS	55SO11421	840506	Certified	Category 3	Railroad Avenue Lift Station	Glenn	No	100	0	9/29/2017	Operator Error
5S	City of Stockton MUD CS	55SO11433	840245	Certified	Category 3	1560 Sycamore Av Stockton Ca	San Joaquin	No	86	0	9/25/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	55SO10912	841194	Certified	Category 3		194671 Sacramento	No	83	0	9/7/2017	Root intrusion
5S	South Placer Mud CS	55SO11054	841110	Certified	Category 3	3665 Cagle Lane, Loomis, CA	Placer	No	82	0	9/3/2017	Root Intrusion
5S	South Placer Mud CS	55SO11054	841096	Certified	Category 3	3400 Colvin Dr Loomis Ca 95650	Placer	No	75	0	9/22/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	55SO10912	841188	Certified	Category 3		196125 Sacramento	No	69	0	9/25/2017	Debris-General
5S	Murphys CS	55SO11007	839020	Certified	Category 3	280 Scott st Murphys CA 95247	Calaveras	No	60	0	8/19/2017	Root Intrusion
5S	South Placer Mud CS	55SO11054	841104	Certified	Category 3	3449 Reyman Ln Loomis Ca 95650	Placer	No	54	0	9/5/2017	Root Intrusion
5F	Tehachapi, City Of CS	55SO10764	840010	Certified	Category 3	Hickory/Cherry Lane	Kern	No	50	0	9/16/2017	Debris-General
5S	Sacramento Area Sewer District CS	55SO10912	841203	Certified	Category 3		196406 Sacramento	No	49	0	9/27/2017	Grease deposition (FOG)
5S	City of Woodland CS	55SO10903	839270	Certified	Category 3	277 Riverside Drive	Yolo	No	42	0	8/10/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	55SO10912	841177	Certified	Category 3		194184 Sacramento	No	41	0	9/4/2017	Root intrusion
5S	Turlock CS	55SO11069	840178	Certified	Category 3	North Laurel Street	Stanislaus	No	40	0	9/9/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	55SO10912	841209	Certified	Category 3		195027 Sacramento	No	38	0	9/13/2017	Root intrusion
5S	Sacramento Area Sewer District CS	55SO10912	840343	Certified	Category 3		193375 Sacramento	No	36	0	8/22/2017	Root intrusion
5S	Sacramento Area Sewer District CS	55SO10912	841183	Certified	Category 3		195116 Sacramento	No	32	0	9/13/2017	Root intrusion
5S	Sacramento Area Sewer District CS	55SO10912	840363	Certified	Category 3		193376 Sacramento	No	31	0	8/22/2017	Debris-General
5F	City Of Bakersfield CS	55SO10717	838978	Certified	Category 3	2300 Fremont St	Kern	No	30	0	8/17/2017	Grease Deposition (FOG)
5S	City Of Folsom CS	55SO10893	840653	Certified	Category 3	114 Larkin Circle	Sacramento	No	30	0	9/30/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	55SO10912	840346	Certified	Category 3		193106 Sacramento	No	27	0	8/18/2017	Root intrusion
5S	San Andreas CS	55SO11048	839886	Certified	Category 3	Manhole E-1210 B	Calaveras	No	25	0	8/25/2017	Operator Error
5S	Sacramento Area Sewer District CS	55SO10912	840365	Certified	Category 3		193162 Sacramento	No	24	0	8/20/2017	Grease deposition (FOG)
5S	Sacramento Area Sewer District CS	55SO10912	840373	Certified	Category 3		193229 Sacramento	No	23	0	8/18/2017	Root intrusion
5F	City Of Bakersfield CS	55SO10717	838974	Certified	Category 3	2448 Pinion Springs Circle	Kern	No	20	0	8/14/2017	Grease Deposition (FOG)
5S	Ceres CS	55SO10721	840204	Certified	Category 3	2538 Thomas Ave.	Stanislaus	No	20	0	9/23/2017	Grease Deposition (FOG)
5S	Davis CS	55SO10921	839701	Certified	Category 3	2540 Rigis Drive	Yolo	No	20	0	9/5/2017	Root Intrusion
5S	Sacramento Area Sewer District CS	55SO10912	841202	Certified	Category 3		196070 Sacramento	No	19	0	9/23/2017	Root intrusion
5S	City of Sacramento Utilities CS	55SO10901	839058	Certified	Category 3	6607 Demareet Drive, SACRAMENTO CA	Sacramento	No	16	0	8/20/2017	Root intrusion
5F	City Of Bakersfield CS	55SO10717	838976	Certified	Category 3	23rd St and E St	Kern	No	15	0	8/16/2017	Grease Deposition (FOG)
5F	City Of Bakersfield CS	55SO10717	839164	Certified	Category 3	2930 Spruce St	Kern	No	15	0	8/22/2017	Grease Deposition (FOG)

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	
SF	Wasco State Prison CS	55SO10775	840089	Certified	Category 3	Wasco State Prison Wasco Calif	Kern	No	15	0	8/24/2017	Debris-Rags	
SS	City Of Folsom CS	55SO10893	839051	Certified	Category 3	104 Monowood Drive	Sacramento	No	15	0	8/16/2017	Other (specify below)	
SS	City Of Folsom CS	55SO10893	839402	Certified	Category 3	320 Turn Pike Drive	Sacramento	No	15	0	8/27/2017	Other (specify below)	
SS	Sacramento Area Sewer District CS	55SO10912	840351	Certified	Category 3		192976	Sacramento	No	15	0	8/17/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840345	Certified	Category 3		192375	Sacramento	No	14	0	8/10/2017	Root intrusion
SF	City of Fresno CS	55SO11202	840728	Certified	Category 3	MH 2555-20	Fresno	No	14	0	9/8/2017	Grease Deposition (FOG)	
SS	City of Stockton MUD CS	55SO11433	840132	Certified	Category 3	1140 N Wilson Way Stockton Ca	San Joaquin	No	14	0	9/21/2017	Debris-General	
SS	Sacramento Area Sewer District CS	55SO10912	840349	Certified	Category 3		192547	Sacramento	No	13	0	8/13/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841205	Certified	Category 3		195024	Sacramento	No	13	0	9/12/2017	Root intrusion
SS	South Placer Mud CS	55SO11054	841076	Certified	Category 3	5782 Sparas St. Rocklin, CA 95677	Placer	No	13	0	9/11/2017	Root Intrusion	
SS	City of Stockton MUD CS	55SO11433	837903	Certified	Category 3	8743 Kelly Dr Stockton Ca	San Joaquin	No	11	0	8/7/2017	Debris-General	
SS	Easterly CS	55SO10938	837843	Certified	Category 3	951 Merchant st.	Solano	No	11	0	8/4/2017	Grease Deposition (FOG)	
SS	South Placer Mud CS	55SO11054	841107	Certified	Category 3	3510 Cheri Ct Rocklin Ca 95677	Placer	No	11	0	9/11/2017	Root Intrusion	
SS	City of Stockton MUD CS	55SO11433	840243	Certified	Category 3	528 W Park st Stockton Ca	San Joaquin	No	11	0	9/22/2017	Debris-General	
SS	West Sacramento CS	55SO11082	839941	Certified	Category 3	1715 Madrone Avenue	Yolo	No	11	0	9/13/2017	Grease Deposition (FOG)	
SS	Davis CS	55SO10921	837970	Certified	Category 3	336 C St.	Yolo	No	10	0	8/7/2017	Root Intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	840339	Certified	Category 3		193679	Sacramento	No	10	0	8/27/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840353	Certified	Category 3		193665	Sacramento	No	10	0	8/26/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840356	Certified	Category 3		193360	Sacramento	No	10	0	8/22/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841198	Certified	Category 3		196172	Sacramento	No	10	0	9/25/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840335	Certified	Category 3		192502	Sacramento	No	9	0	8/11/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	840336	Certified	Category 3		193325	Sacramento	No	9	0	8/22/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	840369	Certified	Category 3		193121	Sacramento	No	9	0	8/19/2017	Root intrusion
SS	City of Stockton MUD CS	55SO11433	838081	Certified	Category 3	2117 Franklin Ave Stockton Ca	San Joaquin	No	9	0	8/9/2017	Root Intrusion	
SF	Reedley, City Of CS	55SO10757	840687	Certified	Category 3	River Ridge Lift Station	Fresno	No	9	0	9/8/2017	Operator Error	
SS	Sacramento Area Sewer District CS	55SO10912	840360	Certified	Category 3		193839	Sacramento	No	8	0	8/29/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840361	Certified	Category 3		194020	Sacramento	No	8	0	8/31/2017	Root intrusion
SS	City of Woodland CS	55SO10903	840287	Certified	Category 3	754 College St	Yolo	No	8	0	8/31/2017	Debris-General	
SS	Sacramento Area Sewer District CS	55SO10912	841192	Certified	Category 3		195363	Sacramento	No	8	0	9/17/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841181	Certified	Category 3		196447	Sacramento	No	7	0	9/28/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841199	Certified	Category 3		196775	Sacramento	No	7	0	9/29/2017	Root intrusion
SS	City Of Folsom CS	55SO10893	838850	Certified	Category 3	106 Pascoe Court	Sacramento	No	6	0	8/11/2017	Other (specify below)	
SS	City Of Folsom CS	55SO10893	839406	Certified	Category 3	986 Thompson Circle	Sacramento	No	6	0	8/28/2017	Root Intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	840344	Certified	Category 3		193872	Sacramento	No	6	0	8/30/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840375	Certified	Category 3		193681	Sacramento	No	6	0	8/27/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841179	Certified	Category 3		196301	Sacramento	No	6	0	9/26/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841191	Certified	Category 3		194749	Sacramento	No	6	0	9/7/2017	Root intrusion
SS	City of Sacramento Utilities CS	55SO10901	840299	Certified	Category 3	3223 Del Paso Blvd SACRAMENTO CA	Sacramento	No	6	0	9/19/2017	Other (specify below)	
SS	Davis CS	55SO10921	839311	Certified	Category 3	1003 Acacia lane	Yolo	No	5	0	8/27/2017	CS Maintenance Caused Spill/Damage	
SS	Sacramento Area Sewer District CS	55SO10912	840342	Certified	Category 3		192760	Sacramento	No	5	0	8/15/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	840347	Certified	Category 3		193667	Sacramento	No	5	0	8/26/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	840350	Certified	Category 3		192611	Sacramento	No	5	0	8/14/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	840359	Certified	Category 3		193828	Sacramento	No	5	0	8/29/2017	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	840366	Certified	Category 3		193563	Sacramento	No	5	0	8/24/2017	Grease deposition (FOG)
SS	City of Stockton MUD CS	55SO11433	839213	Certified	Category 3	1509 Christina Av Stockton Ca	San Joaquin	No	5	0	8/22/2017	Root Intrusion	
SS	City of Stockton MUD CS	55SO11433	839292	Certified	Category 3	105 Sequoia Ct Stockton Ca	San Joaquin	No	5	0	8/27/2017	Debris-General	
SS	Sacramento Area Sewer District CS	55SO10912	841201	Certified	Category 3		195615	Sacramento	No	5	0	9/19/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841214	Certified	Category 3		194910	Sacramento	No	5	0	9/11/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840334	Certified	Category 3		193616	Sacramento	No	4	0	8/25/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840352	Certified	Category 3		193460	Sacramento	No	4	0	8/23/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840362	Certified	Category 3		191579	Sacramento	No	4	0	8/1/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	840372	Certified	Category 3		193663	Sacramento	No	4	0	8/26/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840376	Certified	Category 3		193777	Sacramento	No	4	0	8/29/2017	Debris-General
SS	City of Woodland CS	55SO10903	839294	Certified	Category 3	1009 Beamer St	Yolo	No	4	0	8/17/2017	Pipe Structural Problem/Failure	
SS	Sacramento Area Sewer District CS	55SO10912	841173	Certified	Category 3		194159	Sacramento	No	4	0	9/2/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841174	Certified	Category 3		194274	Sacramento	No	4	0	9/5/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841175	Certified	Category 3		194776	Sacramento	No	4	0	9/9/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841189	Certified	Category 3		196396	Sacramento	No	4	0	9/27/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841197	Certified	Category 3		195528	Sacramento	No	4	0	9/19/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841222	Certified	Category 3		194701	Sacramento	No	4	0	9/8/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841225	Certified	Category 3		195315	Sacramento	No	4	0	9/15/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840357	Certified	Category 3		193578	Sacramento	No	3	0	8/24/2017	Vandalism
SS	Sacramento Area Sewer District CS	55SO10912	840364	Certified	Category 3		192359	Sacramento	No	3	0	8/10/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840368	Certified	Category 3		192563	Sacramento	No	3	0	8/14/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840374	Certified	Category 3		193446	Sacramento	No	3	0	8/23/2017	Root intrusion
SS	City of Stockton MUD CS	55SO11433	838810	Certified	Category 3	8465 Cayuga Dr Stockton Ca	San Joaquin	No	3	0	8/14/2017	Debris from Lateral	
SS	Dry Creek CS	55SO10935	840077	Certified	Category 3	1102 Fairfield Ave	Placer	No	3	0	9/15/2017	Root intrusion	
SS	Sacramento Area Sewer District CS	55SO10912	841200	Certified	Category 3		195382	Sacramento	No	3	0	9/18/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841213	Certified	Category 3		194808	Sacramento	No	3	0	9/10/2017	Root intrusion
SS	City Of Antioch CS	55SO10890	838721	Certified	Category 3	913 W 2nd St, Antioch CA 94509	Contra Costa	No	2	0	8/10/2017	Debris from Lateral	

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SS	Sacramento Area Sewer District CS	55SO10912	840337	Certified	Category 3	191870	Sacramento	No	2	0	8/4/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840348	Certified	Category 3	193680	Sacramento	No	2	0	8/27/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841176	Certified	Category 3	196803	Sacramento	No	2	0	9/30/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841178	Certified	Category 3	196187	Sacramento	No	2	0	9/26/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841182	Certified	Category 3	194206	Sacramento	No	2	0	9/5/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841184	Certified	Category 3	195199	Sacramento	No	2	0	9/14/2017	Other (specify)
SS	Sacramento Area Sewer District CS	55SO10912	841185	Certified	Category 3	195321	Sacramento	No	2	0	9/15/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841190	Certified	Category 3	194165	Sacramento	No	2	0	9/2/2017	Debris from Construction
SS	Sacramento Area Sewer District CS	55SO10912	841204	Certified	Category 3	194110	Sacramento	No	2	0	9/1/2017	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	55SO10912	841211	Certified	Category 3	195650	Sacramento	No	2	0	9/20/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841212	Certified	Category 3	194329	Sacramento	No	2	0	9/6/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841216	Certified	Category 3	194215	Sacramento	No	2	0	9/5/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841218	Certified	Category 3	195463	Sacramento	No	2	0	9/17/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841219	Certified	Category 3	196025	Sacramento	No	2	0	9/22/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	841220	Certified	Category 3	196381	Sacramento	No	2	0	9/27/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841224	Certified	Category 3	195111	Sacramento	No	2	0	9/13/2017	Root intrusion
SS	City Of Antioch CS	55SO10890	838683	Certified	Category 3	622 W 5th St, Antioch CA 94509	Contra Costa	No	1	0	8/4/2017	Debris-General
SS	City Of Antioch CS	55SO10890	838716	Certified	Category 3	3210 Whately Ct, Antioch CA 94509	Contra Costa	No	1	0	8/10/2017	Root Intrusion
SS	City Of Folsom CS	55SO10893	838789	Certified	Category 3	1992 Horseshoe Glen Circle	Sacramento	No	1	0	8/10/2017	Root Intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840338	Certified	Category 3	193105	Sacramento	No	1	0	8/18/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	840341	Certified	Category 3	191924	Sacramento	No	1	0	8/5/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	840354	Certified	Category 3	193682	Sacramento	No	1	0	8/27/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840367	Certified	Category 3	193669	Sacramento	No	1	0	8/27/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	840371	Certified	Category 3	193400	Sacramento	No	1	0	8/23/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	841187	Certified	Category 3	194838	Sacramento	No	1	0	9/11/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	841196	Certified	Category 3	195370	Sacramento	No	1	0	9/17/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841206	Certified	Category 3	196126	Sacramento	No	1	0	9/25/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	841207	Certified	Category 3	196813	Sacramento	No	1	0	9/30/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841208	Certified	Category 3	194233	Sacramento	No	1	0	9/5/2017	Debris-General
SS	Sacramento Area Sewer District CS	55SO10912	841210	Certified	Category 3	195561	Sacramento	No	1	0	9/19/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	841215	Certified	Category 3	196246	Sacramento	No	1	0	9/26/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	841217	Certified	Category 3	194770	Sacramento	No	1	0	9/9/2017	Root intrusion
SS	Sacramento Area Sewer District CS	55SO10912	841221	Certified	Category 3	194641	Sacramento	No	1	0	9/7/2017	Operator error
SS	Sacramento Area Sewer District CS	55SO10912	841223	Certified	Category 3	194995	Sacramento	No	1	0	9/12/2017	Operator error