

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



**EXECUTIVE OFFICER'S REPORT
4/5 APRIL 2019**

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SUCCESS STORIES

1. SITE CLEANUP

From 14 January to 12 February, the Central Valley Water Board's Anthony Toto (Fresno) and John Murphy (Rancho Cordova) were deployed to the Woosley Fire Debris Removal Operations Center (DROC) in Calabasas, CA. On temporary loan to CalRecycle and CalOES, Anthony and John served as Division Supervisors for field operations in the mid-Malibu division (Division X). Anthony and John assessed over 180 sites during the initial deployment and supervised debris removal operations that started on 6 February. The days were long, but it was a very rewarding experience working with homeowners as they work to rebuild both their homes and lives after a devastating experience. Anthony and John will be redeployed on 7 March to 5 April for their second tour.

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

Following are sites where Board staff concluded that residual hydrocarbons do not pose a threat to human health and safety or anticipated future beneficial uses of water. This decision is generally based on site-specific information provided by the responsible party, and assumes that the information provided was accurate and representative of site conditions. Most of these cases have been evaluated in accordance with criteria in the State Water Board's Low-Threat Underground Storage Tank (UST) Case Closure Policy (*Low-Threat Closure Policy*). 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

- **The Filling Station (TFS), 6434 Laval Road, Lebec, Kern County**

During UST system product line upgrade activities in 2017, TFS discovered a diesel fuel release and detected total petroleum hydrocarbons as diesel (TPHd) at concentrations greater than 1,000 milligrams per kilogram (mg/kg) in soil samples collected at five feet beneath fuel dispensers. TFS conducted further investigation and estimated hydrocarbon mass in soil was less than 100 pounds, with limited vertical migration. Human health risk from hydrocarbons in shallow soil was less than the level of concern, and groundwater was not affected. The remaining hydrocarbon mass should continue to attenuate naturally. The case was closed on 7 January 2019, in accordance with criteria contained in the *Low-Threat Closure Policy*.

- **Jack Griggs, Inc. (JGI) – Bulk Plant, 1149 South Kaweah Avenue, Exeter Tulare County**

In April and May 1993, with oversight by the Tulare County Department of Environmental Health Services (Tulare County) Local Oversight Program (LOP), JGI removed eight gasoline and diesel USTs and associated piping and fuel pumps. During the removal, JGI excavated to 23 feet below the ground surface (bgs), removing approximately 1,500 cubic yards of contaminated soil. Beginning in May 1993, JGI conducted multiple phases of site investigations and identified gasoline and diesel fuel constituents to 90 feet bgs in soil and began groundwater monitoring during 1994. JGI removed five additional USTs from its cardlock facility in 1998. JGI operated a soil vapor extraction and air sparge (SVE and AS) system that removed 57,624 pounds of volatile fuel constituents between 1999 and 2007. A modified SVE and AS system removed an additional 61,077 pounds from 2008 until 2016, when the LOP program ended and the case was referred to the Central Valley Water Board for regulatory oversight. Staff requested that the SVE and AS system be shut down and nearby domestic wells sampled prior to consideration of closure. Hydrocarbons remaining in soil should continue to attenuate naturally, water quality objectives should be

met in a reasonable time and there should be no threat to human health or the environment. The case was closed on 14 January 2019 based on criteria contained in the *Low-Threat Closure Policy*

b) **REDDING OFFICE**

- **Red Bluff High School, Red Bluff, Tehama County, Case No. 520145**

In May 2018, two previously unknown underground storage tanks (USTs) were discovered during construction at Red Bluff High School. Approximately 802 tons of petroleum impacted soil, approximately 700 gallons of petroleum-impacted sludge and 9,400 gallons of groundwater were removed and disposed off-site during the UST removal activities. Subsequent site investigations detected low levels of total petroleum hydrocarbons in soil near a planned classroom location, resulting in additional soil removal. Petroleum constituents were not detected in confirmation soil gas and groundwater samples. Approximately 60,000 pounds of petroleum were removed from the site during the soil excavations, sludge removal, and impacted water removal. Staff determined that the case met *Low-Threat Closure Policy* criteria and closed the case in February 2019.

- **Gott's Country Store, Cottonwood, Tehama County, Case No. 520144**

In May 2016, an unauthorized release of petroleum was discovered during removal of a UST at the site, the location of a previous UST case closed in 2003. Soil excavated from the base of the tank pit contained low concentrations of diesel-range organics and a groundwater sample collected from the tank pit contained gasoline-range organics. Sampling of the on-site domestic well in October 2017 and June 2018 confirmed that the observed contamination is limited to the tank pit and that the contamination did not pose a threat to the domestic well. A negligible amount of petroleum constituents was removed with the water hauled off during the 2016 UST removal. Staff determined that the case met *Low-Threat Closure Policy* criteria and closed the case in February 2019.

c) **SACRAMENTO OFFICE**

- **Unocal Bulk Plant No. 0796, 1000 North Front Street, Turlock, Stanislaus County**

The Site is a former bulk plant which historically contained five above-ground storage tanks (ASTs). Phillips 66 Company (Phillips) removed the Site ASTs and replaced them with USTs prior to 1990. In 1990, during removal of a 5,000-gallon capacity UST containing motor oil, Phillips detected petroleum hydrocarbon constituents in Site soil samples, indicating that a release had occurred. Phillips installed 15 groundwater monitoring wells from 1990 to 2004 and initiated routine quarterly groundwater monitoring in January 1991. Phillips conducted several phases of Site remediation, including excavating approximately 600 tons of soil near the former USTs in 1996, excavating 700 tons of soil near the former dispenser islands in 2011, conducting oxygen and hydrogen peroxide injections from 2008 to 2010, and extracting approximately 1,056 gallons of free product and groundwater in 2014. Groundwater monitoring continued through December 2016, and decreasing petroleum hydrocarbon concentration trends were observed over time. Site conditions meet the general and site-specific criteria for case closure under the *Low-Threat Closure Policy*, and the case was closed on 2 January 2019.

- **Willows Cardlock Facility (WCF), 900 South Tehama Street, Willows, Glenn County**

The Site operated as a cardlock fueling facility from 1991 to 2014. Between 2003 and 2013, WCF detected minor leaks of diesel and gasoline when testing the UST system and repaired or replaced equipment as needed. In 2014, WCF removed the three USTs, dispensers, and associated product lines, and excavated approximately 2,220 cubic yards of petroleum hydrocarbon impacted soil from the cardlock station. From 2014 through 2017, WCF conducted soil and groundwater investigations to characterize the extent of diesel and gasoline hydrocarbons beneath the Site. The petroleum hydrocarbon plume in groundwater is less than 50 feet in length, stable, the petroleum hydrocarbons are degrading, and are expected to continue to degrade under natural conditions. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on January 7, 2019.

- **Roy E. Lay Trucking (RELT), 1218 East Kentucky Avenue, Woodland, Yolo County**

RELT removed a 10,000-gallon diesel UST from the Site in 2002. Soil data indicated diesel hydrocarbons remained in soil after excavation of the UST basin and dispenser area. RELT conducted groundwater monitoring and sampling, and active remediation that included soil excavation, batch groundwater extraction, free product removal, and air sparging and bioventing of soil beneath the Site, removing approximately 3,500 pounds of diesel. RELT concluded the extent of petroleum hydrocarbons remaining in soil and groundwater beneath the Site is defined and relatively stable. Central Valley Water Board staff concluded that the residual subsurface petroleum hydrocarbon mass poses a low threat to human health, safety, and the environment, and closed the case on February 20, 2019.

STAFF RECOGNITION

At the 7/8 February Board meeting, Executive Officer Pulupa presented the following Sustained Superior and Superior Accomplishment awards.

SUPERIOR ACCOMPLISHMENT AWARDS:

Employee: Jennifer LaBay
Unit: NPS Planning
Title: Senior Environmental Scientist
Supervisor: Sue McConnell

In the last 7 months, Jennifer has done an amazing job of stepping into the Senior Environmental Scientist (Supervisory) position and has excelled as the Nonpoint Source Program Manager, supervising 5 staff while managing staff in two other offices. Jennifer also took on the added responsibility of overseeing the triennial review of the Central Valley Water Board's Basin Plans to fill a void left by the retirement of both our Basin Planner and Planning Section Program Manager.

Last summer, Jennifer oversaw a successful Board workshop regarding activities to address the nutrient problems in Clear Lake. The Clear Lake nutrient problems and inadequate efforts to address them have been a significant concern to the local tribes and other stakeholders. Jennifer has been diligent and effective in reaching out to all of the stakeholders and getting better collaboration in addressing the nutrient problems. She is working with the tribes and others to develop nutrient outreach materials and is the Central Valley Water Board representative to the recently formed Clear Lake Blue Ribbon Committee. Jennifer has done a good job of representing the interests of the Water Board and bringing issues back to the Board for their consideration and input.

Jennifer also did a stellar job of helping bring the Basin Plan triennial review to the Board for approval. Her organizational skills and hard work made the Board approval process very smooth, especially given that a new process was developed for this triennial review.

In the relatively short time she has been in her current position, Jennifer has contributed tremendously to success of both the Nonpoint Source and Planning Programs. Her positive attitude and "can do" spirit makes her a joy to work with, and her wonderful work ethic helps ensure that tasks are completed on time. For these reasons and so much more, Jennifer is worthy of a sustained superior accomplishment award.

Employee: Walt Plachta
Unit: Title 27
Title: Engineering Geologist
Supervisor: Scott Hatton

Walt Plachta is receiving this award because he has spent a considerable amount of time on two major projects, almost nonstop, since he started in the Fresno Office just over one year ago. These projects are the CV-SALTS program and the Triennial Review of the Tulare Lake and the Sacramento-San Joaquin Basin Plans. Both efforts are complex, long term, and have involved addressing input from stakeholders and the general public. Walt has quickly come up to speed on these projects and has continued to do an excellent job despite the recent departures of key Basin Planning personnel from the Rancho Cordova Office.

Walt's CV-SALTS efforts include attending the CV-SALTS executive committee meetings and being the lead for the Fresno office. He also attends the public education and outreach committee meetings with the intent to educate stakeholders and get them ready for the implementation of the CV-SALTS program following approval from State Board. Walt is also the grant manager for the Nitrate Management Zone Early Implementation Grant. Work under this grant will consist of a pilot study that may be utilized as a blue print for the CV-SALTS program. Walt's tasks include technical document review and managing the invoices for the project.

Most recently, Walt prepared and presented a triennial review workshop item to the Board at their meeting in Redding in October. He also prepared and presented a follow-up presentation to the Board in December. As a result, the Board adopted the triennial review workplan, which provides a road map for planning activities for the entire region for the next three years. Walt is a reliable and professional staff member in our Fresno office and is very deserving of this award.

Employee: Daniel Whitley
Unit: Forest Activities
Title: Engineering Scientist
Supervisor: Matthew Boone

Daniel Whitley is an Environmental Scientist in the Redding Forest Activities Unit and is being recognized for his outstanding work performance. Daniel joined the Central Valley Water Board in 2013, bringing with him more than 20 years of experience working as an "ologist" in California, from being a biologist for CalTrans and DFW, to a botanist then an ecologist with the Forest Service.

In the five years Daniel has been with the Central Valley Water Board, he has made considerable contributions to both the Forest Activities Unit and to the Central Valley Board's Forestry Program as a whole. When initially hired, Daniel quickly learned the permitting and compliance aspects of the Forest Activities Program, ultimately taking a lead role in advancing our understanding of herbicide use and effects on water quality from timber harvesting activities. In addition to performing permitting and compliance actions in the Redding office for all of Plumas County, Daniel concurrently lead the development and execution of two contracts with the USGS to further our access to cutting edge passive sampling systems for researching herbicide impacts, putting the board on the cutting edge of this research.

The Central Valley Water Board's Forest Activities Program has grown substantially since Daniel was first hired, and without hesitation Daniel has assisted new staff and encouraged them to invest in projects and topics that interest them and benefit the board. Daniel has become our "go-to" person in the Redding office for passive sampling technology and information on forestry herbicide impacts, and has continually been willing to assist other staff in whatever capacity he can. Daniel aided in the planning and implementation of the board's 2017 General Order for Timberland Management Activities, and specifically for those sections relating to post-fire salvage logging activities, including the importance of ground cover and herbicide application timing.

Daniel is required to balance numerous priorities in his position. He regularly looks for ways to turn ideas into actions and develops strategies for implementation. He is an innovative and creative thinker, and he encourages others to be creative in developing solutions. The Central Valley Water Board is very fortunate to have Daniel and greatly appreciates his contributions.

Employee: Janis Cooke
Unit: TMDLS Basin Planning NPS
Title: Senior Environmental Scientist Specialist
Supervisor: Meredith Howard

Janis Cooke is a Senior Environmental Scientist Specialist in the Planning unit. She has provided exemplary leadership in the Regional Board’s Delta Water Quality Program. As part of this program, she has been instrumental in the development of the Delta Nutrient Research Plan, which was adopted by the Regional Board in August. Janis has lead stakeholder discussions, technical committees and provided coordination with other programs, both internal Regional Board programs and external programs and projects. She has recently led several proposals that successfully secured multiple funding sources to support implementation of the Delta Nutrients Research Plan.

Janis is also the Delta Regional Monitoring Program (RMP) Technical Advisory Committee member, and she leads the Nutrients Subcommittee of the RMP, and coordinates with the San Francisco Bay Nutrient Program. Janis' technical knowledge, expertise and enthusiasm on various water quality issues provides a significant resource utilized by many Waterboard staff. Janis is a highly motivated, dedicated staff member deserving of this award.

ENFORCEMENT

Enforcement is a critical ingredient in creating deterrence needed to encourage the regulated community to anticipate, identify, and correct violations. Appropriate penalties and other consequences for violations offer some assurance of equity between those who choose to comply with requirements and those who violate them. It also improves public confidence when government is ready, willing, and able to back up its requirements with action. This section of the 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) a summary of enforcement orders issued; and, 2) a summary of *all* enforcement actions issued.

- 1) **Orders and Complaints Issued or Adopted** – Enforcement Table 1, included below, provides a summary of all of the Enforcement Orders (Cleanup and Abatement Orders; Cease and Desist Orders (CDO) ; 13267 Investigative Orders; Expedited Payment Letter (EPL), and Administrative Civil Liability (ACL) Orders and Complaints that have been issued by the Central Valley Regional Board or staff since the previous EO Report and that are recorded in the California Integrated Water Quality System (CIWQS) database.

Enforcement Table 1 – Central Valley Enforcement Orders (*4 January 2019 through 28 February 2019*)

Action Date	Agency	County	Notes
1/4/2019	Mountain House CSD	San Joaquin	ACL R5-2018-0536 in the amount of \$15,000 addresses mandatory minimum penalties (MMPs) for effluent limit violations. EPL converted to an ACL upon receipt and entry of payment.
1/8/2019	Sacramento River Watershed	Sacramento	13267 Order was issued to assesses all management practices and agricultural operations that have been implemented to reduce phosphorus loads to Clear Lake in response to the Clear Lake Nutrient Total Maximum Daily Load (TMDL)

Enforcement Table 1 – Central Valley Enforcement Orders (4 January 2019 through 28 February 2019)

Action Date	Agency	County	Notes
1/10/2019	Crystal Basin Cellars	El Dorado	13267 Order was issued for unauthorized discharge to an apparent designated waste into surface water. 13267 Order required the Discharger to submit a technical report and a Report of Waste Discharge (ROWD).
1/14/2019	Linda Cnty Water District	Sacramento	ACL R5-2018-0535 in the amount of \$3,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon receipt and entry of payment.
1/17/2019	Knife River Construction	Yuba	ACL R5-2018-0531 in the amount of \$3,000 addresses MMPs for effluent limit violations. EPL converted to an ACL upon receipt and entry of payment.
1/25/2019	Matos, Joe	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Hoekstra, Edward	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Azevedo, Antonio & Alexandrina	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Foster Farms	Stanislaus	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Teixeira, Gilbert & Linda	Stanislaus	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Dyt, Doris	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Lourenco, Joe Sr.	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.

Enforcement Table 1 – Central Valley Enforcement Orders (4 January 2019 through 28 February 2019)

Action Date	Agency	County	Notes
1/25/2019	Brasil, Guilherme & Teresa	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Brasil, A & E	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Russell, CA & Kirsten	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Vaz, Evaristo	Merced	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
1/25/2019	Johal, Gurdial & Surinder	Stanislaus	13267 Order was issued for failure to maintain good standing membership with the Central Valley Dairy Representative Monitoring Program and requires the Discharger to submit technical report to verify if they Discharger has implemented individual groundwater monitoring program.
2/6/2019	Simon & Sons Pumping & Backhoe	Kings	13267 Order was issued because of unauthorized discharges of waste at Kings County Parcels 018-232-045 and 018-232-048. The 13267 requires the Discharger to investigate, characterize and identify the source of the discharge.
2/7/2019	Alexandra Kensavath	Shasta	ACLO R5-2019-004 adopted by the Board, which replaced ACLC R5-2018-0561, in the amount of \$150,000 for violations of CAO R5-2016-0712
2/7/2019	Teng Vang	Shasta	ACLO R5-2019-003 adopted by the Board, which replaced ACLC R5-2018-0528, in the amount of \$83,187.50 for violations of CAO R5-2017-0701.
2/19/2019	Allied Washoe Petroleum	Plumas	ACLO R5-2018-0561, which replaced ACLC R5-2018-0561, issued in the amount of \$660,521 for failure to comply with CAO R5-2007-0705.
2/20/2019	California Concentrate Company	San Joaquin	CAO R5-2019-0700 issued to address violations of the WDRs that have resulted from the discharge of waste not consistent with or authorized by the WDRs.

2) Enforcement Update – Enforcement Table 2, included below, summarizes the enforcement actions issued in all the Regions for period between 4 January 2019 through 28 February 2019. From a statewide perspective, the Central Valley Water Board is responsible for 31% of the enforcement

actions tracked in CIWQS during this period including 29% of all NOV's and 25% of all ACL's.

Enforcement Table 2 – Statewide Enforcement Actions in CIWQS (4 January 2019 through 28 February 2019)

Region	13267	NNC	ACL	CAO	EPL	NNC	NOV	NTC	SEL	VER	Total
1	0	0	1	0	0	0	0	0	1	0	2
2	0	0	1	0	2	0	0	0	0	0	3
3	0	0	1	0	4	0	11	0	0	0	16
4	1	3	3	0	1	4	119	5	0	3	139
5F	1	0	0	0	0	0	4	0	0	2	7
5R	0	0	3	0	0	0	3	0	0	0	6
5S	23	28	3	1	1	2	50	0	6	8	122
RB5 Total	24	28	6	1	1	2	57	0	6	10	135
6T	0	0	0	0	0	0	1	0	1	0	2
6V	0	0	0	0	0	1	0	0	3	1	5
7	0	0	0	0	0	0	0	0	0	0	0
8	0	4	0	0	12	37	1	0	6	26	86
9	0	0	12	0	0	0	9	0	20	1	42
Total	25	35	24	1	20	44	198	5	37	41	430

Enforcement Actions:

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

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

Enforcement Table 3 – Central Valley Water Board Enforcement Actions in GeoTracker (4 January 2019 through 28 February 2019)

<u>Enforcement Actions</u>	<u>Count</u>
NOV	12
13267 Order / NOV	1
ACLO	1
Verbal Enforcement	1
Total	15

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

Enforcement Table 4 – Central Valley Water Board ILRP Enforcement Actions (4 January 2019 through 28 February 2019)

Office	Water Code Section 13260 Letters/ Directives for Failure to Enroll in ILRP	NOVs for Failure to Respond to 13260 Directives	Total
Fresno	31	14	45
Sacramento	0	63	63
Total	31	77	108

SANITARY SEWER OVERFLOWS (SSOs) AND COMPLAINTS

Category 1 SSOs in excess of 50,000 gallons that reached surface waters

There was one SSO event in excess of 50,000-gallons between 1 December 2018 and 28 February 2019.

Southeast Sanitary Sewer Collection System, Lake County Sanitation District, Lake County

On 13 February 2019, the Central Valley Water Board was notified by Lake County Special District of a untreated sewage spill occurring from a manhole located at 14954 Burns Valley Road in Clearlake. Following notification, Water Board staff received a California Office of Emergency Services (Cal-OES) report #19-1041 and a spill notification report. According to the reports, the Category 1 spill estimated at 192,950 gallons was discovered at 1:45 pm on 13 February 2019 and ceased at 3:20 pm on 14 February 2019 and entered a nearby storm drain that flows into Clear Lake. The spill was caused by heavy rains and storm surge in the collection system. Contracted pumper trucks operated for the duration of spill to reduce the volume of water in the collection system. Relevant data from all the spills occurring during this reporting period is included as **Attachment A**.

For this reporting period, there were **329** total SSO spills: **46** Category 1, **15** Category 2, and **268** Category 3 spills. A summary of the SSOs that occurred in the Central Valley Region is summarized in Enforcement Figure 2, below.

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

Central Valley Regional Board staff are responsible for responding to complaints related to water quality within the Central Valley Region as they are received. From 1 January 2019 through February 2019, Central Valley Water Board staff have received a total of **35** complaints from phone calls, emails, and from the CalEPA Complaint database (<https://calepacomplaints.secure.force.com/complaints/>). To date,

18 (49%) complaints have been investigated and closed or referred to another environmental enforcement agency. Investigations for the remaining **18** complaints remain ongoing.

Performance Targets

Performance measurement and reporting is an important component of a complete system of performance management needed to demonstrate how well programs or strategies are working and why. Information obtained through better performance measurement and program evaluation provides insight that enables us to understand and replicate successes, and continuously improve programs. To this end, the Water Boards establish annual performance targets for key output measures. In effect, these targets are goals that establish measurable levels of performance to be achieved within a specified time period. The Water Board has a systematic target setting approach for several of its programs. Using this new method, performance targets are based on available resources and uniform cost factors for key workload outputs. This target setting approach is described in the link below and was used to develop the FY 2018-2019 performance targets http://www.waterboards.ca.gov/about_us/docs/resource_alignment_report.pdf. Below is the Performance Measurement Summary for the 2018-19 fiscal year. This report was produced with data through 67% of the current fiscal year.

Performance Measurement Summary from 1 July 2018 through 28 February 2019						
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	8	5	63%	n/a	n/a	
Major Individual Facilities Inspected	24	13	54%	n/a	14	
Minor Individual Permits Issued, Revised, and Renewed	12	6	50%	n/a	n/a	
Minor Individual Facilities Inspected	17	14	82%	n/a	11	
Minor General Enrollees Facilities Inspected	0	1	N/A	n/a	1	
Waste Discharge to Land – Wastewater						
Municipal Waste, Industrial Waste, and All Other Facilities - Permits Past Review Date Updated	26	16	62%	n/a	n/a	
Municipal Waste, Industrial Waste, and All Other Facilities - Number of Inspections	161	103	71%	n/a	114	
Land Disposal						
Landfills Permits Issued, Revised, and Renewed	13	11	85%	n/a	n/a	
Landfill Inspections	111	60	60%	n/a	67	
All Other Permits Issued, Revised, and Renewed	2	4	200%	1	n/a	
All Other Inspections	30	35	137%	n/a	41	
NPDES Storm Water						
Stormwater Construction Inspections	385	226	75%	n/a	290	
Stormwater Industrial Inspections	195	132	71%	n/a	138	
Stormwater Municipal Inspections	0	1	N/A	n/a	1	
Other Programs						
Forest Activities Inspections	166	154	98%	n/a	163	
Confined Animal Facility Inspections	275	192	73%	n/a	200	
Clean Up						
New DoD Sites into Active Remediation	6	6	100%	n/a	n/a	
New SCP Sites into Active Remediation	50	44	88%	n/a	n/a	
Cleanup Program Sites Closed	60	27	45%	n/a	n/a	
New UST Sites into Active Remediation	23	13	57%	n/a	n/a	
Underground Storage Tank Sites Closed	68	52	76%	n/a	n/a	

* Actuals: Number of facilities inspected or permits issued.

** Total #: Number of inspections completed including all re-inspections.

DELTA ACTIVITIES

1. Delta Mercury Exposure Reduction Program

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

On 19 February 2019, staff held a stakeholder meeting at which a representative from each of the four MERP Community Grant recipients gave 20-minute presentations regarding outreach and education activities that have been implemented in their communities since last fall. OEHHA staff also attended the stakeholder meeting and gave a presentation about their new fish consumption advisory materials that include updated age ranges for whom the advisories apply. A representative from the Sierra Fund presented on fish consumption sign posting evaluation efforts in the Sierras. The sign posting evaluation strategies and lessons learned by the Sierra Fund are timely information for MERP staff who are currently planning to conduct sign posting effectiveness evaluations in the spring and summer of 2019. MERP staff is also continuing coordination with local entities and other state agencies for additional fish consumption advisory sign posting at Delta sites with public fishing access in 2019.

The Community Grant recipients also submitted midterm reports the following week. MERP staff is currently reviewing those reports as well as program material feedback from many of the community program participants.

2. Delta Regional Monitoring Program (Delta RMP)

In 2018, the Delta RMP Steering Committee (SC) allocated funding to develop a Contaminants of Emerging Concern (CEC) Quality Assurance Program Plan (QAPP) and begin the planning phase for monitoring CECs in the Central Valley. On 14 February 2019, the CEC subcommittee met again to discuss budgets and potential collaborators for the monitoring plan scheduled to begin in FY 2019-20. The subcommittee also discussed the scope and timeline for the Proposition 1 Grant Proposal that the Aquatic Science Center (ASC) submitted for CEC funding. The QAPP draft is scheduled to be completed in April 2019.

On February 22, the SC discussed a new Multi-Year Planning Process for the FY 2020-21 workplan that will include a summer 2019 long-term planning workshop. As a first step, the Technical Advisory Committee created a table of "management drivers" listing important water quality issues that Delta RMP monitoring could help inform. The subcommittees will further refine the management drivers table by identifying, prioritizing, and recommending the most important data needs for the next 3-5 years. Also at the meeting, ASC gave an update on the implementation activities in the current workplan, including an update on the progress of the Pesticides Interpretive Report due June 2019 by the contractor Deltares.

At the Pesticides Subcommittee meeting on February 26, U. S. Geological Survey (USGS) staff presented preliminary data results for the first of six pesticides and toxicity sampling events for the water year that targeted the first major storm event expected to significantly increase flows into the Delta. The focus of the sampling was along the Sacramento River and the Yolo Bypass-Cache Slough subregions at four randomly selected locations and two fixed sites. For each sample, 172 different pesticides are analyzed along with a five-species toxicity test. The group also discussed reducing the flow trigger in the current pesticides monitoring design to potentially capture the first urban stormwater runoff event in early fall. Another option is to change the flow trigger to precipitation predictions instead of using a flow-based trigger. The group will decide at a later date if they will make

a recommendation to the SC to change the pesticides monitoring trigger for the fall monitoring event in FY 2019-20.

Also on February 26, the Nutrient Subcommittee met jointly with the Delta Nutrient Stakeholder & Technical Advisory Group to discuss additional details for fiscal year 2019-20 project proposals under development.

In 2018, the USGS nutrients monitoring team completed all three of the fall, winter, and spring three-day high-frequency sampling events covering most of the major Delta waterways. USGS staff presented preliminary data and gave a presentation with draft mapping images at both the SC meeting and the Nutrients Subcommittee meeting.

The Delta RMP Mercury Subcommittee discussed current and future mercury sampling for water and fish tissue. The SC previously approved additional winter water sampling events to support seasonal and annual mass balance estimates for the 2022 Delta Mercury TMDL update. In addition to long-term trend monitoring in fish and water, the group is discussing options for future monitoring of habitat restoration projects in the Yolo Bypass. The Mercury Subcommittee also discussed how to coordinate with and support a separate USGS Delta Mercury Study that will be conducted in the near future.

3. Delta Nutrient Research Plan

Stakeholder Activities

The Delta Nutrient Research Plan Stakeholder and Technical Advisory Group (STAG) and the Delta Regional Monitoring Program's Nutrient Subcommittee met jointly on 14 January and 26 February. The primary topic was development of a project proposal to the Delta RMP for funding in fiscal year 2019/2020. Information about future stakeholder meetings will be posted at the website below.

Water Board Implementation Efforts

Staff is developing contract agreements for two projects:

- Monitoring of cyanobacteria toxins (microcystins) in water and clams for 2 years at selected locations in the Delta. Funding is offered by California Department of Fish and Wildlife from Prop 1.
- An assessment of nutrients and a pilot test for harmful cyanobacteria bloom management in Discovery Bay. Funding is offered by the State Water Resources Control Board from USEPA (Clean Water Act Section 205(j)) funds.
- Staff has initiated monthly monitoring of nutrients in Discovery Bay in partnership with the Discovery Bay Community Foundation.

The final Delta Nutrient Research Plan, stakeholder meeting information, and supporting documents are available at: https://www.waterboards.ca.gov/centralvalley/water_issues/delta_water_quality/delta_nutrient_research_plan/

4. San Joaquin River Dissolved Oxygen TMDL Implementation - Aeration Facility 2018 Summary

In 2006-2007, an aeration facility was constructed on the Port of Stockton's West End Complex as part of the San Joaquin River Dissolved Oxygen TMDL Implementation Program. Since 2011, the Port of Stockton has operated the aeration facility when dissolved oxygen concentrations are expected to fall below the dissolved oxygen water quality objective.

From January 1, 2019 to March 4, 2019 there were no excursions below the dissolved oxygen water quality objective of 5 mg/L in the channel and operation of the aeration facility was not necessary. Discussions to extend the agreement that provides funding for operation of the aerator have begun between aeration partners and a new funding agreement is expected to be finalized before June 1, 2019. More information on the San Joaquin River/DWSC dissolved oxygen TMDL Control Program are

available at: https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/san_joaquin_oxygen/index.shtml

TMDL BASIN PLANNING

1. Pesticide Basin Planning/TMDLs

Central Valley Pyrethroids Basin Plan Amendment and TMDL

On 8 June 2017 the Board adopted the Basin Plan Amendment for the Control of Pyrethroid Pesticide Discharges. The State Water Board approved the Basin Plan Amendment on 10 July 2018. The Office of Administrative Law (OAL) approved the Amendment on 19 February 2019. The Pyrethroid TMDLs in the Amendment still require USEPA approval, but the rest of the Amendment now fully approved and effective. The TMDLs in the Amendment and have been sent to USEPA for an approval decision which is expected in April 2019. Completion of baseline monitoring for pyrethroids by municipal stormwater and agricultural dischargers is required 2 years from the date of OAL approval. Baseline monitoring for municipal or domestic wastewater dischargers will be conducted during their effluent characterization monitoring. The conditional prohibition established by the Amendment becomes effective 3 years from the date of OAL approval.

Staff continues to work with State Water Board, Environmental Laboratory Accreditation Program (ELAP) and Office of Information Management and Assessment (OIMA) in an Environmental Laboratory Technical Advisory Committee (ELTAC) Pyrethroid Workgroup. This workgroup, which consists of representatives from laboratories around the state, is coordinating an effort to reach out to laboratories to request pyrethroid chemical analysis methods with lower detection and quantification/reporting limits to support control program monitoring requirements. A request for laboratory method validation packages will be sent out in March 2019 and will provide laboratories approximately six months to submit packages requesting validation of methods with low pyrethroid detection limits. Once a method is validated, laboratories will be able to be accredited by ELAP to run those methods.

In December 2018, a contract was finalized with UC Davis to fund research into pyrethroid partition coefficients (factors which can be used to estimate pyrethroid “bioavailability”, or the amount of pyrethroids in a sample that are likely to contribute to toxicity). Work on the contract will go through January 31, 2021. Staff will be scheduling meetings with stakeholders in spring 2019 to discuss progress, get feedback on implementation, and begin working on development of the Pyrethroid Research Plan. More information is available at: https://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/central_valley_pesticides/pyrethroid_tmdl_bpa/index.html

SALINITY AND CV SALTS

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

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

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

the following location: https://www.waterboards.ca.gov/centralvalley/water_issues/salinity/#saltnitrate_cp_bpa

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

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

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

More information on the project can be found at: http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/mun_beneficial_use/index.shtml

3. **CV-SALTS Meeting Participation**

On 21 February 2019, Patrick Pulupa, Adam Laputz, Anne Littlejohn and Meredith Howard participated in the CV-SALTS Executive Committee meetings. Discussions focused the Basin Plan Amendment Approval process, program implementation planning, and grant activities relating to the development of early Management Zone evaluations, the Salinity Prioritization and Optimization Study work plan and other Salt and Nitrate Control Program outreach activities.

On 12 and 13 February 2019, Anne Littlejohn and Walter Plachta participated in kick-off steering committee meetings for the two Management Zone Early Implementation grant efforts with the Turlock Irrigation District and the Alta Irrigation District, respectively. Meetings focused on providing an overview of the Nitrate Control Program's Management Zone permitting approach and the associated tasks and objectives of the grants.

On 19 February 2019, Patrick Pulupa participated in the CV-SALTS Public Outreach and Education Committee conference call meeting. The meetings focused on developing outreach material for the public.

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

MAA meetings with Central Valley Water Board staff (Anne Littlejohn and James Brownell) and representatives for USBR, the Westside San Joaquin River Watershed Coalition, and the Grassland Water District are held quarterly. The next quarterly MAA meeting is scheduled for 18 March 2019. The discussion will focus on activities supporting the San Joaquin River Real Time Management Program activities (RTMP).

SURFACE WATER AMBIENT MONITORING PROGRAM (SWAMP)

1. **Lower American River Beneficial Use Assessment**

The Lower American River has been listed as impaired due to indicator bacteria on California's 303(d) List. SWAMP is coordinating with local agencies to develop a source identification and pathogen monitoring plan in 2019 for this portion of the river. To keep the public and local agency partners informed about current conditions, SWAMP is collecting weekly *E. coli* samples in the Lower American River and Steelhead Creek and posting results to an [online map](#).

2. Post-fire Monitoring in the Butte Creek Watershed

SWAMP is coordinating with other regional board programs and state agencies on post-fire monitoring in areas impacted by the November 2018 Camp Fire in Paradise, CA. Current monitoring efforts are focused on assessing conditions during and after winter storm events using water quality samples collected from streams and creeks in the Upper Butte Creek Watershed near the town of Paradise.

More information on the Central Valley Water Board's SWAMP program can be found at:

https://www.waterboards.ca.gov/centralvalley/water_issues/swamp/

NPDES

General Orders

The Central Valley Water Board has issued several NPDES general orders to streamline the permitting process for similar-type discharges. Where existing NPDES permittees meet the eligibility requirements of the general orders staff seek to enroll the permittees under the general orders to streamline the permitting process. NPDES Table 1, below, summarizes the Notices of Applicability that were issued between 1 July 2018 and 28 February 2019.

NPDES Table 1

Facility	General NPDES Permit Number	General Permit Name
Kiefer Landfill Groundwater and Extraction and Treatment Plant	R5-2016-0076-033	General Waste Discharge Requirements/NPDES Permit for Limited Threat Discharges to Surface Waters
Ralston Afterbay Dam Low Level Outlet Project	R5-2016-0076-042	
Patterson Sand and Gravel Facility Dewatering Project	R5-2016-0076-045	
Southport Levee Improvement Project	R5-2016-0076-046	
Balsam Meadows Hydroelectric Project/Eastwood Powerhouse Facility	R5-2016-0076-047	
IPT Tracy Building II Construction Dewatering Project	R5-2016-0076-048	
Gopher Hill Landfill Leachate Disposal (amended NOA)	R5-2016-0076-022	
Sierra Minerals, LLC – Colombo Mine	R5-2016-0076-049	
DWR Hyatt Waterline Project	R5-2016-0076-050	
Nautilus Data Technologies, Inc.; Data Storage Facility	R5-2016-0076-040	

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

City of Lincoln Temperature Receiving Water Limits

The Central Valley Water Board renewed the City of Lincoln's NPDES permit in December 2018, which included revised temperature limitations intended to protect salmon and steelhead in the receiving water, Auburn Ravine. The City has requested a Time Schedule Order for meeting the revised temperature limits, which includes a proposal to conduct new temperature studies to ensure the receiving water temperature limitations are appropriate. Concurrently, Board staff have been in contact with CDFW to get them up to speed on the receiving water temperature limits and to discuss involvement in future discussions with the City to develop a temperature study work plan. Board staff also are planning on touring Auburn Ravine in March with Jack Sanchez, President of Save Auburn Ravine Salmon and Steelhead, an interested person that provided comments regarding the temperature receiving water limits for the recent permit renewal.

Storm Water

San Francisco Bay Water Board Municipal Separate Storm Sewer System (MS4) Permit for Eastern Contra Costa County Municipalities

The Cities of Antioch, Brentwood, and Oakley, Contra Costa County, and the Contra Costa County Flood Control and Water Conservation District (eastern Contra Costa municipalities) are members of the Contra Costa Clean Water Program (CCCWP), a countywide organization that assists municipalities with coordinated storm water permitting and compliance. The CCCWP implements required pollution prevention activities and public outreach. Contra Costa County is split between the jurisdictions of the San Francisco Bay and Central Valley Water Boards. Therefore, storm water permits have been issued to the eastern Contra Costa municipalities from both Regional Boards. Since the CCCWP serves municipalities under the jurisdiction of both Regional Boards, in Fall of 2016 the eastern Contra Costa municipalities submitted requests seeking designation of a single Regional Water Board to regulate permitting of MS4 discharges located within eastern Contra Costa County.

In January 2017, the Executive Officers of the Central Valley Water Board and San Francisco Bay Water Board agreed to designate the San Francisco Bay Water Board to regulate MS4 discharges from the eastern Contra Costa municipalities, including those areas located within the Central Valley Water Board's geographic jurisdiction. The San Francisco Bay Water Board amended its Regionwide MS4 permit, Order R2-2015-0049, at its February 2019 board meeting to incorporate the eastern Contra Costa municipalities.

401 Certifications/Dredging

Dredging

On 17 May 2018, an interim Memorandum of Understanding (MOU) to cover 2018 maintenance dredging activities was signed by the United States Army Corps of Engineers (USACOE), San Francisco District, and the Central Valley Water Board. A Turbidity Monitoring Plan and 2018 Dredging Timeline was submitted by the USACOE for review in June 2018 that identified actions specific to the 2018 maintenance dredging period.

On 1 March 2019, the USACOE and Central Valley Water Board staff met to discuss coordination for a long-term permanent MOU for ongoing operation and maintenance dredging activities with the Stockton and Sacramento DWSC. Discussions on the permanent MOU are ongoing between USACOE and

Central Valley Water Board staff. A long-term permanent solution is anticipated to be presented to the Central Valley Water Board for adoption at the June 2019 Board meeting.

DAIRIES/CONFINED ANIMAL FACILITIES

Dairy Inspections

The Confined Animal Facilities Program's FY2018/2019 performance target for dairy facility inspections is 275. Staff have completed 200 inspections to date; therefore, the Program is on track to meet the performance target. During inspections, staff review the facility's nitrogen management plan, mortality management plan, and evaluate production area and ponds for compliance with the Dairy General Order requirements.

OIL FIELDS

1. Waste Water Surface Ponds

Staff continues to work on enrolling oil field operators under the Oil Field General Orders for Discharges to Land, and to evaluate closure plans for produced wastewater ponds.

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

Staff has prepared tentative waste discharge requirements for a new project that will store produced wastewater in four unlined reservoirs and reuse it for irrigation. The tentative waste discharge requirements were posted for public comment in October and will be presented to the Board for consideration in December 2018.

2. Spill Response

Central Valley Water Board staff responds to oil field spills and upsets reported to the Office of Emergency Services (OES). Board staff were notified of 26 events in January and February.

- A spill of oil field produced wastewater occurred on the Fairfield Treatment Plant operated by Berry Petroleum, LLC (Berry), in the Midway Sunset Oil Field on 2 January. According to OES, an operator error caused the discharge of approximately 201 barrels (bbl(s)) (8,442 gallons (gals)) of produced wastewater from a 5,000-bbl (210,000-gal.) tank into an earthen secondary containment unit. According to Berry staff, the discharged fluids were contained within the designated secondary containment, and no natural drainages or dry stream beds were affected.
- A spill of oil and oil field produced wastewater occurred on the Yolumne facility operated by California Resources Corporation (CRC), in the Yolumne Oil Field on 2 January. According to OES, approximately 7 bbls (294 gals) of a mix of oil and produced wastewater were discharged near an underground injection well due to a mechanical failure. According to CRC staff, the discharged fluids affected flat areas and two rows of a young citrus orchard. CRC staff also said that a cleanup contractor will cleanup the area affected by the spill. On 26 February, CRC staff provided Staff with post-cleanup photographs of what appeared to be a portion of the areas affected by the spill.
- A spill of oil field produced wastewater occurred on the Formax Lease operated by Berry, in the Midway Sunset Oil Field on 9 January. According to OES, a storage tank overflowed due to a "back-up" and discharged approximately 60 bbls (2,520 gals) of produced wastewater into soil. According to Berry, the discharged fluids did not affect natural drainages or dry stream beds. Berry staff also stated that the discharged wastewater contained a little oil.

- A spill of oil field produced wastewater occurred on the Pan Fee Lease operated by BerryBerry, in the Midway Sunset Oil Field on 9 January. According to OES, a pipe leak caused the discharge of approximately 50 bbls (2,100 gals) of produced wastewater into a secondary containment. According to Berry staff, the discharged fluids were contained within the designated secondary containment and no natural drainages or dry stream beds were affected. Berry staff also stated that the discharged wastewater contained no oil and that all free-standing discharged fluids were recovered.
- A spill of crude oil occurred on the Stenderup Lease operated by Mountain View Resources (MVR), in the Mountain View Oil Field on 19 January. According to OES, a pipe clogged and caused tanks to over flow and discharge approximately 75 bbls (3,150 gals) of oil into the secondary containment berm. According to Berry staff, the discharged fluids were contained within the designated secondary containment and no natural drainages or dry stream beds were affected. Berry staff also stated that cleanup of the affected berm area was completed.
- A spill of crude oil occurred on the McVan Lease operated by E&B Natural Resources Management (E&B), in the Poso Creek Oil Field on 19 January. According to OES, a production well discharged approximately 7 bbls (294 gals) of oil into areas surrounding the well. According to E&B staff, the discharged fluids were contained within production pads and no natural drainages or dry stream beds were affected.
- A spill of crude oil and oil field produced wastewater occurred on a facility operated by CRC, in the Elk Hills Oil Field on 20 January. According to OES, a mechanical failure on a shipping line caused the discharge of approximately 18 bbls (756 gals) of crude oil and 230 bbls (9,660 gals) of produced wastewater to land. According to CRC staff, most of the discharged fluids affected a dirt road but some affected an earthen depression (low area). CRC staff also stated that staff of the California Department of Fish and Wildlife- Office of Spill Prevention and Response (CDFW-OSPR) inspected the spill site and determined that the areas affected by the spill were not within the course of waters of the State. According to CDFW-OSPR staff, the affected low area is a portion of a fragmented dry stream bed. Staff of the CDFW-OSPR inspected the spill site after cleanup on 30 January and signed-off on the site cleanup.
- A spill of crude oil and oil field produced wastewater occurred on the RCA Lease operated by Chevron USA, Inc. (Chevron), in the Kern River Oil Field on 18 January. According to OES, a flow line leak caused the discharge of approximately one bbl (42 gals) of oil into an un-named dry stream bed. According to Chevron staff, the discharged fluids consisted of approximately 70% wastewater and 30% oil. Chevron staff also said that CDFW-OSPR staff intended to inspect the spill site.
- A spill of crude oil and oil field produced wastewater occurred on the Fairfield Beany Lease operated by Berry, in the Midway Sunset Oil Field on 21 January. According to OES report, a pipeline leak caused the discharge of approximately 13.5 bbls (567 gals) of a mix of oil and wastewater to land. According to Berry staff, the discharged fluids were contained within a low area between two roads and no natural drainages or dry stream beds were affected. Berry staff also stated that cleanup was completed and provided Board staff with post-cleanup photographs of the affected areas.
- A spill of crude oil and oil field produced wastewater occurred on the Olcese Lease operated by Crimson Resource Management (Crimson), in the Greeley Oil Field on 22 January. According to OES, a human error caused the discharge of approximately 80 bbls (3,360 gals) of oil and 10 bbls (420 gals) of produced wastewater from storage tank into the tank's secondary containment. According to Crimson staff, the discharged fluids were fully contained within the secondary containment and no natural drainages or dry stream beds were affected. Crimson staff also stated that staff of the Kern County Public Health Department (KCPHD) inspected the spill site.
- A spill of crude oil and oil field produced wastewater occurred on the 25A Thermal facility operated by Crimson, in the Midway Sunset Oil Field on 25 January. According to OES, a producing well packing leak caused the discharge of approximately 16 bbls (672 gals) of oil and 31 bbls (1,302 gals) of produced wastewater into soil. According to Crimson staff, the discharged fluids affected flat areas within production pads and no natural drainages or dry stream beds were affected. Crimson staff also

stated that staff of the KCPHD and the Bureau of Land Management inspected the spill site. Crimson staff provided post-cleanup photographs of the affected areas on 29 January.

- A spill of crude oil and oil field produced wastewater occurred on the Section 13 L345 facility operated by Aera Energy, LLC (Aera), in the Lost Hills Oil Field on 25 January. According to OES, a pipeline leak caused the discharge of a mix of oil and produced wastewater into soil. According to Aera staff, the discharged fluids consisted of approximately 8 bbls (336 gals) oil and 57 bbls (2,394 gals) of produced wastewater. Aera staff also said that the discharged fluids affected a tank berm and pre-disturbed flat areas within the facility. Aera staff stated that cleanup of the affected areas is complete, and that staff of the KCPHD inspected the spill site.
- A spill of crude oil occurred in a business park containing a production well operated by Griffin Resources (Griffin), in the Fruitvale Oil Field on 25 January. According to OES, an underground production pipeline leaked and caused the discharge of 5 to 10 bbls (210 to 420 gals) of crude oil into a parking lot and landscape. According to Griffin staff, the discharged fluids did not affect storm drains. Griffin staff added that cleanup of the affected areas was completed, and the failed pipeline will be repaired.
- A spill of crude oil and oil field produced wastewater occurred on the Portals Lease operated by Hathaway, LLC (Hathaway), in the Jasmin Oil Field on 1 February. According to OES, a truck accidentally struck and damaged a flow line which caused the discharge of approximately 2 bbls (84 gals) of oil and 30 bbls (1,260 gals) of produced wastewater into the grounds of an orange orchard. According to Hathaway staff, cleanup of the areas affected by the spill is complete. Hathaway staff stated that staff of the KCPHD inspected the spill site. Hathaway staff provided post-cleanup photographs of the areas affected by the spill.
- A spill of crude oil occurred on the Southwestern Lease operated by Berry, in the Midway Sunset Oil Field on 4 February. According to OES, a leaking underground pipeline discharged approximately 50 bbls (2,100 gals) of oil to land. According to Berry staff, the discharged fluids affected habitat but no dry stream beds. According to staff of CDFW-OSPR, the affected areas are near a blue line stream bed. Board staff inspected the spill site on 15 February to observe the post-cleanup conditions of the affected areas. On 15 February, staff observed that the affected areas appeared to be mostly visually clean. CDFW-OSPR will lead cleanup of the site.
- A spill of oil and oil field produced wastewater occurred on the KCL South Lease operated by CRC, in the Wheeler Ridge Oil Field on 5 February. According to OES, a pipe burst and discharged approximately 5 bbls (210 gals) of a mix of oil and produced wastewater to land, through a culvert underneath the California Aqueduct, and into downstream grasslands. According to CRC staff, cleanup of the affected areas was in progress. CRC staff added that cleaning the approximately 300-foot-long culvert is a challenge because of sediment build-up. Staff of the California Department of Water Resources – the State agency managing the affected areas – provided staff with photographs of the affected areas. Staff of CDFW-OSPR inspected the spill site and shared their field observations and photographs with Board staff.
- A spill of crude oil and oil field produced wastewater occurred on a facility near Tupman operated by CRC, in the Buena Vista Oil Field on 9 February. According to OES, a process failure caused a tank to overflow and discharge approximately 150 bbls (6,300 gals) of a mix of oil and produced wastewater into a dry blue line stream bed. CRC staff provided photographs of the areas affected by the spill. CRC staff told Board staff that CDFW-OSPR conducted a post-cleanup inspection of the affected areas and signed-off on the site cleanup.
- A spill of crude oil and oil field produced wastewater occurred on Star Fee Lease operated by Sentinel Peak Resources California (Sentinel), in the Cymric Oil Field on 11 February. According to OES, a release during drilling at a well caused the discharge of approximately 10 bbls (420 gals) of oil and 10 bbls (420 gals) of produced wastewater to land. A final update of the discharged fluids amount on 20 February was approximately 75 bbls (3,150 gals) of oil and 4,000 bbls (168,000 gals) of wastewater. According to Sentinel staff, the discharge occurred during drilling and consisted of

steam, oil, and drilling mud. Sentinel staff also said that the discharged fluids affected production pads and did not affect dry stream beds or natural drainages. Staff of CDFW-OSPR, KCPHD, and the Division of Oil, Gas, and Geothermal Resources (Division) inspected the spill site.

- A spill of crude oil and oil field produced wastewater occurred on the Conoco Lease operated by E&B, in the Poso Creek Oil Field on 9 February. According to OES, a check valve failure caused the discharge of approximately 5 bbls (210 gals) of oil and 5 bbls (210 gals) of wastewater to land. According to E&B staff, the discharged fluids were contained within production pads and no natural drainages or dry stream beds were affected. E&B staff added that cleanup of the affected areas was completed.
- A spill of crude oil and oil field produced wastewater occurred on a facility on Section 36B operated CRC, in the Buena Vista Oil Field on 11 February. According to OES, a pipeline leak caused the discharge of approximately 42 gallons of a mix of oil and produced wastewater to land. According to CRC staff, Staff of the CDFW-OSPR inspected the spill site and determined that the affected areas were not within the course of a blue line stream bed.
- A spill of crude oil and oil field produced wastewater occurred on the Pioneer Lease operated by Crimson in the Pioneer Oil Field on 11 February. According to OES, cattle damaged a valve causing the discharge of approximately 48 bbls (2,016 gals) of oil and 10 bbls (420 gals) of produced wastewater to land. According to Crimson staff, the discharge fluids were fully contained within the secondary containment berm of a tank.
- A spill of crude oil occurred on a facility operated by Aera, in the Lost Hills Oil Field on 23 February. According to OES, approximately 5 bbls (210 gals) of oil were discharged from a pipeline due to unknown reasons and affected soil. The OES report states that no waterways have been affected by the discharged fluids and that cleanup was in progress at the time of reporting.
- A spill of oil field produced wastewater occurred on the Moco 34 Lease operated by Aera, in the Midway Sunset Oil Field on 23 February. According to OES, a pipeline leak caused the discharge of approximately 17 bbls (714 gals) of produced wastewater into a section of a dry blue line stream bed. Board staff inspected the affected areas on 25 February and observed post-cleanup conditions. Staff of the CDFW-OSPPR inspected the spill site on 25 February and signed-off on the site cleanup.
- A spill of crude oil occurred on a facility described as "947 Gate 02 on 34" operated by Aera, in the McKittrick Oil Field on 26 February. According to OES, a valve malfunction caused the discharge of approximately 4 bbls (168 gals) of oil to land. The OES report states that no waterways have been affected by the discharged fluids.
- A spill of crude oil and oil field produced wastewater occurred on a facility operated by E&B, in the North Rosedale Ranch Oil Field on 26 February. According to OES, a farmer accidentally struck a pipeline during land-tiling which caused the discharge of approximately 0.5 bbls (21 gals) of oil and 6 bbls (252 gals) of wastewater to land. According to E&B staff, the discharged fluids affected flat areas within an agricultural land. E&B staff added that cleanup was being performed.
- A spill of crude oil and oil field produced wastewater occurred on a facility operated by the San Joaquin Facilities Management (SJFM), in the Ten Section Oil Field on 26 February. According to OES, a valve failure caused the discharge of approximately 150 bbls (6,300 gals) of a mix of crude oil and wastewater to land. Staff of CDFW-OSPR, KCPHD, and the Division inspected the spill site. According to CDFW-OSPR staff, the discharged fluids were contained in a depression approximately 21 feet x 36 feet, and no dry stream beds or waterways were affected. CDFW-OSPR staff added that cleanup was in progress as of 26 February.

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

3. UIC Program

Aquifer Exemptions

During the period from 8 January 2019 through 1 March 2019, staff (staff) of the Underground Injection Control Unit (UIC) performed the following aquifer exemption activities:

Elk Hills and South Belridge Aquifer Exemptions – Staff reviewed the Operators proposed schedules for its plans to cease injection into a portion of the upper Tulare Formation in the Elk Hills and South Belridge Oil Fields. Staff's suggested edits to the schedules were provided to State Board for inclusion in its response to the Operators and the Division.

Deer Creek Aquifer Exemption – Staff received the Division's and Operator's joint responses to the combined Central Valley Water Board/State Board initial questions regarding the proposed aquifer exemption in the Deer Creek Oil Field. The joint response provided replies to the initial questions, a revised/new version of the aquifer exemption, and a series of revised figures and tables. Staff reviewed the new submittals and provided State Board with additional questions and concerns. Subsequently, staff and State Board have held meetings to discuss potential options/paths for dealing with the proposed exemption.

UIC Project Reviews

Staff met with Division staff to receive information on the Division's proposed new approach for evaluating potential impacts from UIC projects. The proposed approach utilizes void replacement ratio and current aquifer pressure to identify limits to UIC projects. Staff is in the process of preparing its evaluation/response to the proposed changes to the UIC review process.

Staff received a well installation and water quality sampling report for a monitoring well installed in the Fruitvale Oil Field to investigate potential releases of oilfield produced water constituents due to casing failures. Staff are evaluating the water quality results and proposed recommendations contained within the report.

Due to unresolved project concerns with a UIC project located in the Sutter City Gas Field, staff's review of the project was elevated to State Board for its evaluation. Staff subsequently meet with State Board to discuss its outstanding concerns and to receive input regarding the process for objecting to the project.

Staff received and reviewed a Kern River Oil Field infill UIC project and provided initial comments and concerns to the Division. Additionally, staff provided comments to a State Board review of a pilot UIC project in the Rose Oil Field.

4. Senate Bill 4 (SB-4) Program

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

Since the last Executive Officer's report staff have reviewed nine groundwater monitoring related plans and submitted written comments to the State Water Board. The plans reviewed were as follows: California Resources Production Corporation Addendum 7, Buena Vista Nose area; Berry Petroleum Company LLC Addendum, Group 6 for the South Belridge Oil Field; Berry Petroleum Company LLC Addendum, Group 5 for the South Belridge Oil Field; Berry Petroleum Company LLC Addendum, Group 7 for the South Belridge Oil Field; a draft and final Aera Energy LLC Addendum for 35 wells, South Belridge Oil field; California Resources Production Corporation Addendum 8, Buena Vista Nose area; California Resources Production Corporation's Phase 2 Groundwater Monitoring Well Installation Work Plan for the Buena Vista Nose area; and, California Resources Production Corporation Work Plan for a deep exploratory

boring in the Elk Hills Oil field. Groundwater monitoring exclusion related requests were reviewed for Aera Energy LLC's North Belridge Oil Field, and for their South Belridge Oil Field in section 30.

Central Valley Water Board staff are currently reviewing eleven groundwater related plans. Staff have reviewed groundwater monitoring reports for the North Coles Levee Oil Field and for the South Belridge Oil field. Draft letters and technical memorandums were submitted to State Water Board staff for review. The reports present groundwater sampling results associated with samples collected from locations where well stimulations were previously conducted. Groundwater monitoring reports for seven other locations are currently under review.

5. Food Safety

Regional Board Staff have been working on a draft outline of the white paper for the Food Safety project. The white paper, when complete, is expected to summarize research and data compiled as part of the Food Safety project. It will also discuss data gaps, propose future work, and include recommendations from the Food Safety Expert Panel (Panel). A draft of the white paper outline has been distributed to the Panel for review. Regional Board Staff are working with the Panel incorporate information provided by the Panel into the white paper.

Regional Board Staff held a conference call with GSI Environmental Inc. (third-party consultant working under the MOU) and the Food Safety Project's Science Advisor (Dr. William Stringfellow) regarding the white paper, Tasks 1 and 2, and upcoming crop sampling.

Regional Board Staff observed the collection of oranges, mandarins, and lemons during February. Sampling activities were completed over three days and samples were under direct supervision of Regional Board Staff. Crop samples were mailed to Weck Laboratories, Inc. (Weck) for analysis. Regional Board Staff have been working with Weck Staff to get the sampling analytical results from 2018 sampling events. It is anticipated that those results will be ready for review by May 2019.

In January, Regional Board Staff held a public meeting of the Panel. During the meeting, GSI gave a presentation on the progress related to the tasks. GSI has been working on completing a list of constituents of interest that could be found in produced water. Also, during the meeting, a member of the Panel gave a presentation on consumption estimates. The focus of that presentation were foods that are grown in irrigation districts that use produced water.

IRRIGATED LANDS REGULATORY PROGRAM (ILRP)

IRRIGATED AGRICULTURE – SUCCESSFUL COMPLETION OF IMPLEMENTED MANAGEMENT PLANS

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

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

On 18 January 2019, the Executive Officer approved the completion of five management plans for the San Joaquin County and Delta Water Quality Coalition (Coalition), including two for pesticides (diuron and chlorpyrifos), one for arsenic, one for specific conductivity, and one for pH. The implemented management plans successfully eliminated water quality problems caused or influenced by discharge of agricultural pollutants into surface receiving waters. The Coalition held multiple member meetings and conducted targeted outreach to individual growers to provide general and site-specific guidance

regarding practices to protect water quality. Examples of new practices implemented by growers include reduced use of pesticides; use of grass filter strips, waterways and center rows; reduced runoff; and adopting efficient irrigation methods. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

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

On 28 January 2019, the Executive Officer approved the completion of six management plans for the East San Joaquin Water Quality Coalition (Coalition), including four for toxicity (*Ceriodaphnia dubia*, *Selenastrum capricornutum*, and *Hyalella azteca*) and two for pesticides (chlorpyrifos and malathion). The implemented management plans successfully eliminated water quality problems caused by discharge of agricultural pollutants into surface waters. The Coalition held multiple member meetings and conducted targeted outreach to individual growers to provide general and site-specific guidance regarding practices to protect water quality. Examples of new practices implemented by growers include shutting off outside spray nozzles when applying pesticides, spraying only when wind speed is low and blowing away from surface waters, controlling the timing of drainage, and adopting efficient irrigation methods. Water quality analyses showed that receiving water limits were met, demonstrating the effectiveness of implemented practices.

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 April 10th meeting, in Modesto, will focus on the development and use of the Soil & Water Assessment Tool (SWAT) model by the Southern San Joaquin Management Practices Evaluation Program Group. 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_advisory_workgroup/index.shtml

Changes to ILRP WDRs Orders

On 7 February 2019, the Central Valley Water Board adopted revisions to existing General Orders for the Sacramento River Watershed, Sacramento Valley Rice Growers, San Joaquin County and Delta, Western San Joaquin River Watershed, Grasslands Drainage Area, Western Tulare Lake Basin, and Tulare Lake Basin. The Orders were updated in response to direction given by the State Water Resources Control Board in its review of Waste Discharge Requirements General Order No. R5-2012-0116 (East San Joaquin General Order).

Proposed Changes to ESJ WDRs Orders

On 25 February, the Central Valley Water Board released a Notice of Public Hearing for proposed changes to the WDRs General Order for Growers within the Eastern San Joaquin River Watershed. The proposed amendment will remove the Notice of Intent submittal requirement for growers applying for coalition coverage. Written comments are due on 29 March 2019. Additional information is available at the following link: https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/tentative_wdrs/

Expert Review of ESJWQC Surface Water Monitoring Framework

On 7 February 2018, the State Water Resources Control Board (State Water Board) issued Order WQ-2018-0002 in response to the Petition on the East San Joaquin Watershed Order R5-2012-0116. The State Water Board Order directed the Central Valley Water Board to convene an external expert review of the East San Joaquin Water Quality Coalition's (ESJWQC) surface water monitoring framework. The review is to be conducted as a public process by neutral experts. Central Valley Water Board staff has selected Steve Weisberg of the Southern CA Coastal Water Research Project (SCCWRP) to oversee the process of selecting external expert review panel members and to facilitate all meetings. Staff is currently awaiting final execution of a contract with SCCWRP and reaching out to interested parties to serve on an Advisory Group during the process.

ILRP Compliance, Outreach & Enforcement

Drinking Water Well Monitoring Outreach

Outreach efforts continue for the drinking water monitoring requirements in the East San Joaquin Water Quality Coalition (ESJWQC). Staff is continuing to answer phone calls and emails from members. Presentations on the requirements have been given at recent ESJWQC grower meetings. Staff continues to work with testing laboratories, with currently 11 laboratories certified to complete the testing requirements in the coalition area. Staff is also working with GeoTracker staff on developing reporting tools to help identify member's compliance with the program.

Agricultural Parcel Inspections

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

Coalition Area	Parcel Inspections Jan 1 – Feb 28
Kaweah Basin	99
East San Joaquin, San Joaquin Co & Delta, Sacramento Valley	559
Total	658

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 Jan 1- Feb 28
East San Joaquin	1
Total	1

Water Code Section 13260 Directives

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

Coalition Area	Outreach Letter 1 Jan – Feb 28	Directives Mailed 1 Jan – Feb 28
East San Joaquin	291	
Kaweah Basin		31
Total	291	31

Notices of Violation for failure to respond to 13260 Directive

Notices of Violation (NOVs) were sent to Coalition members within the Kern River Watershed Coalition Authority area and the Sacramento Valley Coalition area for their failure to respond to a 13260 Directive letter. Failure to respond to the NOV subjects the discharger to further enforcement actions which may include an administrative civil liability order.

Coalition Area	NOVs Mailed 1 Jan – Feb 28
Sacramento Valley	63
Kern River Watershed	14
Total	77

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 (2018)*	2,500	3,336	98	7,982	3,458	1,893	19,267
Number of Growers Enrolling Land Due to Directive/eNOI Jan 1, 2019- Feb 28, 2019)***		10		5	1		16
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 (2018)*	499,000****	700,099	83,693	1,319,710	512,036	423,216	3,474,755
Number of Acres, Annual Fees (2019)**	499,000****	700,099	83,923	1,319,710	512,036	421,581	3,536,349
Number of Acres added due to Directive/eNOI (Jan 1, 2019- Feb 28, 2019)***		221		634	14		869

* 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 8 January 2018.

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

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 (2018)*	56	88	1,242	755	4,223	967	43	1,215	8,589
Number of Growers Enrolling Land Due to Directive/eNOI (Jan 1, 2019 – Feb 28, 2019)***				4	7				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 (2018)*	33,383	34,454	160,380	528,340	779,978	259,563	106,079	492,072	2,394,249
Number of Acres, Previous Annual Fees (2019)**	34,031	32,831	159,722	528,340	729,529	226,686	101,506	492,072	2,306,340
Number of Acres added due to Directive/eNOI (Jan 1, 2019 – Feb 28, 2019)***				197	253				450

* 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 4 January 2019

Sacramento River Watershed Coalition Groups

California Rice Commission

Surface water monitoring for the 2018 sampling season concluded on 2 July 2018. The 2018 Annual Monitoring Report for monitoring conducted in 2018 was submitted on 20 December 2018. The 2018 Annual Monitoring Report is currently under staff review.

Sacramento Valley Water Quality Coalition

On 23 January, the Sacramento Valley Water Quality Coalition submitted requests to complete management plans for chlorpyrifos in Ulatis Creek and DDD in Grand Island Drain. These requests are currently under staff review.

On 12 February, the Upper Feather River Watershed Group submitted a Reduced Monitoring/Management Practices Verification Plan for the Upper Feather River Subwatershed. This is currently under staff review.

San Joaquin River Watershed Coalition Groups

East San Joaquin Water Quality Coalition

On 28 January, the Executive Officer approved the completion of the Coalition's management plans for six site/constituent pairs; management plans will continue for one site/constituent pair that does not meet the requirements for completion.

On 31 January, the Coalition submitted an addendum to the 2019 water year Monitoring Plan Update report, including an updated excel workbook of the monitoring schedule based on exceedances that occurred during the June through September 2018 monitoring period. The addendum is currently under staff review.

On 18 February, the Coalition submitted an updated Farm Evaluation template to reflect the requirements outlined in Attachment B of the General Order R5-2012-0116-R4. The template is currently under staff review.

San Joaquin County and Delta Water Quality Coalition

On 30 November, the Coalition submitted its Nitrogen Management Plan Summary Analysis Report for the 2017 crop year. Staff is reviewing the report.

On 3 December, the Coalition submitted its December 2018 Quarterly Monitoring Report. The report contains electronic data, field sheets, site photos, and laboratory reports for the Quarterly Monitoring Report (April through June 2018).

On 28 January, the Executive Officer approved the addendum to the 2019 water year Monitoring Plan Update (MPU) which included additional bifenthrin monitoring. The addendum updates the MPU based on exceedances that occurred during the June-September 2018 monitoring period.

Westside San Joaquin River Watershed Coalition

On 28 December, the Coalition submitted a request to complete 29 management plans for various constituents in multiple watersheds. The request included documentation of monitoring, outreach, and implemented practices in these watersheds. The requests are currently under staff review.

On 31 January, the Coalition submitted the Phase V report (open water systems) to determine which members are subject to the Sediment and Erosion Control Plan. The report is currently under staff review.

Grassland Drainage Area Coalition

On 4 September 2018, the Grassland Drainage Area Coalition's Groundwater Quality Trend Monitoring Workplan and Addendum were conditionally approved by the Executive Officer. The conditions include the timing of results reporting, on-going evaluation of the sufficiency of the monitoring network, and consideration of network expansion in areas with lesser coverage. Groundwater quality trend monitoring commenced in the fall of 2018. The results of monitoring will be reported in the 2018 Annual Monitoring Report due 30 April 2019.

Tulare Lake Basin Coalition Groups

Kaweah Basin Water Quality Association

On 7 January 2019, staff issued a review of the proposed Surface Water Monitoring Plan for the Kaweah Basin Water Quality Association. The review requested further additions to the plan to ensure it is adequately designed to evaluate whether discharges from irrigated agricultural lands are complying with the receiving water limitations of the General Order.

Kings River Water Quality Coalition

On 14 January 2019, staff met with representatives of the Kings River Water Quality Coalition to discuss the Coalition's progress in developing a revised Surface Water Monitoring Plan (SWMP), as well as comments prepared for the proposed revisions to the General Order for growers within the Tulare Lake Basin Area (R5-2013-0120-07). The revised SWMP is currently pending submittal, and revisions to the General Order were adopted at the 7 February 2019 Board meeting.

Other Projects

Data Management

The Data Management Team continues to route water quality monitoring data through SWAMP for transfer to CEDEN and is current with its CEDEN loads. CEDEN transfers occur approximately once per month. After ILRP staff performs a completeness check, SWAMP staff loads the monitoring data to CEDEN. Three coalitions send data directly to the Central Valley Regional Data Center (CVRDC) for transfer to CEDEN in May each year. The date ranges for Coalition data available in CEDEN are shown in the table below. Staff will continue to report on this effort.

The Data Management Team (DMT) is preparing 2014 through 2017 Buena Vista Coalition water quality data for submittal to SWAMP. Once the EDDs are loaded, the DMT will conduct a final quality check and request SWAMP to push the EDDs to CEDEN.

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

Grassland Bypass Project

On 26 October 2018, the Pesticide Monitoring Plan – 2018 Update for the Grassland Bypass Project was approved by the Executive Officer. The Plan outlines the schedule and constituents for pesticide monitoring in surface water in the Grassland Drainage Area from 1 January through 31 December 2019.

The results of the prior year’s pesticide monitoring, and other monitoring conducted under Order R5-2015-0094, will be reported in the 2018 Annual Monitoring Report due 30 April 2019.

Rice Pesticides Program

Thiobencarb monitoring for the 2018 sampling season concluded on 3 July 2018. The results of monitoring were submitted in the 2018 Annual Monitoring Report on 20 December 2018 and followed by the submittal of management practice recommendations for the 2019 sampling season on 7 January 2019. The recommended management practices for 2019 were approved by the Executive Officer on 22 January 2019.

CANNABIS PROGRAM

General Order Enrollment and Developments

Approximately 736 cannabis cultivators had coverage under General Order No. R5-2015-0113 (Regional General Order) when the Statewide General Order went into effect on January 1, 2018. Staff have completed, to date, 77 transfer applications to the Statewide General Order. Additionally, 328 Notice of Termination requests have been submitted, and staff have reviewed and approved 232, largely from Calaveras county which enacted a commercial cannabis cultivation ban in the spring of 2018. Table 1 provides a summary of the active enrollments to date in the Regional General Order.

Table 1

County	Tier 1 Enrollment	Tier 2 Enrollment	Tier 3 Enrollment	Total Active Enrollments
Calaveras	117	148	39	304
Yolo	14	19	2	35
Lake	26	22	2	50
Nevada	12	1	-	13
Sierra	4	-	-	4
Plumas	1	-	-	1
Mariposa	-	-	-	-
Total	206	228	50	407

Staff have been actively reviewing and processing enrollments under the Statewide General Order and have been continuing to conduct outreach to ensure Region General Order enrollees transition to the Statewide General Order in a timely manner. To date staff have received approximately 515 Statewide General Order applications, 444 with payment, and have approved and enrolled approximately 421 dischargers under the Statewide General Order. Table 2 provides a summary of the Statewide General Order enrollments in the Central Valley Region to date.

Table 2

County	CE*	Tier 1L	Tier 1M	Tier 1H	Tier 2L	Tier 2M	Tier 2H	Total Active Enrollments
Calaveras	1	6	-	-	1	1	-	9
Contra Costa	1	-	-	-	-	-	-	1
Fresno	4	-	-	-	-	-	-	4
Lake	7	44	2	-	33	1	-	87
Merced	4	-	-	-	-	-	-	4
Nevada	8	112	2	-	-	-	1	123
Sacramento	113	-	-	-	-	-	-	113
Shasta	4	-	-	-	-	-	-	4
Siskiyou	2	-	-	-	-	-	-	2
Solano	2	-	-	-	-	-	-	2
Stanislaus	11	4	-	-	1	-	-	16
Tulare	1	-	-	-	-	-	-	1
Yuba	1	-	-	-	-	-	-	1
Yolo	-	12	-	-	42	-	-	54
Total	159	178	4	0	77	2	1	421

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

Outreach

On February 6, staff, along with the Division of Water Rights and CDFW, attended a cannabis permitting and enrollment outreach event in Grass Valley.

On March 4, staff gave a presentation of the cannabis program to California Department of Water Resources staff in their Red Bluff office. Topics covered including the current status of the program, water rights and water quality issues related to cannabis cultivation, and potential areas for coordination and information transfer.

On March 13, staff, along with the Division of Water Rights, North Coast Regional Board, and CDFW participated in a cannabis permitting and enrollment outreach event in Lake County.

Compliance and Enforcement

Compliance

On January 10, staff performed two compliance inspections in Lake County.

On January 16, staff performed two site inspections in Nevada County.

On January 19, staff performed two compliance inspections in Yolo County.

On February 5, staff performed five compliance inspections in Lake County.

On February 6, staff performed one compliance inspection in Nevada County.

On February 19, staff performed two permit termination inspections in Calaveras County with CDFW wardens.

Upcoming Inspections

On March 20, staff are scheduled to conduct three compliance inspections in Lake County.

Rancho Cordova staff are coordinating with CDFW wardens to conduct termination inspections in Calaveras County on an ongoing basis. Staff are planning to do inspections two days per month based on the wardens' availability. These inspections are done with the consent of the property owners and started in mid-February and should run through June. Staff expect to visit three to five sites per field day.

Enforcement

On January 31, staff performed a follow-up inspection on an enforcement site in Calaveras County which included meeting with property owner and contractor to discuss clean up needs.

On February 7, two administrative civil liability orders were adopted for failure to comply with cleanup and abatement orders issued to two cannabis cultivation sites in Shasta county.

NON-POINT SOURCE (NPS) PROGRAM

Clear Lake Nutrient Control Program Update

Staff is working with TMDL identified responsible parties to obtain information regarding compliance with phosphorus load allocations, as a follow-up to the 18 July 2018 Board workshop. Staff is in the process of drafting and sending 13267 Orders to each responsible party to obtain this information. On 9 January 2019, a 13267 Order was issued to the Irrigated Agriculture responsible party. Staff will continue to send Orders to the other responsible parties throughout early 2019.

Staff has experienced delays in achieving milestones, including sending and obtaining information from responsible parties, due to the Mendocino Complex fire, which affected much of Lake County. Post-fire monitoring activities and meetings have been attended by staff to stay updated on erosion control management practices and potential impacts to the lake.

On 12 February 2019, Jennifer LaBay participated in a conference call for the Blue Ribbon Committee for the Rehabilitation of Clear Lake. The purpose of the call was to gain input from Committee members on the creation of a technical subcommittee and to discuss other potential subcommittees. The next Committee meeting is scheduled for 13 March 2019. Meeting details will be publicly noticed by the California Natural Resources Agency. More information regarding the Committee can be found on the Natural Resources Agency's [Blue Ribbon Committee website](#).

Staff is also coordinating with agencies, organizations, and Tribes in Lake County to develop a joint brochure focused on educating residents about nutrient management and steps they can take to reduce nutrient impacts/erosion into Clear Lake. Central Valley Water Board is acting as lead in this effort. The brochure is tentatively scheduled to be available to the public in early fall 2019.

More information about the Clear Lake Nutrient Control Program can be found at: http://www.waterboards.ca.gov/centralvalley/water_issues/tmdl/central_valley_projects/clear_lake_nutrients/index.shtml

Federal Nonpoint Source Permit Development

On 22 February 2019, State Water Board, and Central Valley and Lahontan Water Board staff attended a meeting with the Board of Forestry's Rangeland Management Advisory Committee (RMAC) to discuss development of the proposed Federal Nonpoint Source permit. During the meeting, Water Board staff provided an overview of preliminary permitting activities and committed to working more closely with the RMAC during the permit development process as it relates to grazing.

On 28 February 2019, Forest Activities Program staff attended the biannual Executive Meeting for the Federal Nonpoint Source Permit. Representatives from the USFS, BLM and Lahontan Water Board were in attendance. Staff provided a short presentation on the best management practices review for certain nonpoint source activities conducted on USFS and BLM lands that have been completed thus far. Attendees reviewed next steps for permit development including; finalizing the BMP Evaluation Report, initiating CEQA scoping and additional outreach needs. A revised timeline was also discussed that currently schedules permit hearings before the Central Valley and Lahontan Regional Boards in 2020.

On 28 February 2019, staff attended a meeting held by the State Water Board with UC Davis Extension representatives that included staff from the State Water Board, Lahontan and North Coast Regional Water Board. The meeting focused on next steps for the revision of the Rangeland Water Quality Management plan, as directed by State Board members during the hearing dissolving the grazing regulatory action plan (GRAP) in 2015.

CYANOBACTERIA BLOOMS UPDATE

Cyanobacteria and harmful algal blooms (HABs) have become a common occurrence in water bodies across the state and the U.S. This issue has led to the question “*Are harmful algal blooms affecting our surface waters?*” In 2016, the California Water Quality Monitoring Council developed the California Harmful Algal Blooms Portal ([HABs Portal](#)) on their [My Water Quality](#) webpage.

The purpose of the HABs Portal is to provide information to the public in an easy-to-understand manner on the health and environmental effects of HABs in California’s lakes, reservoirs, rivers and estuarine waters. The portal includes information such as how to identify and report a bloom, healthy habits the public can practice that will protect themselves and their pets from a HAB, and a web page on control and treatment of blooms for water resource managers. The State Water Board’s Surface Water Ambient Monitoring Program implements this Freshwater HAB (FHAB) Program. The Central Valley Water Board participates in the state’s FHAB Program by investigating and responding to reports of suspected HABs.

Calendar Year 2019 – Central Valley HAB Reports

Between January through February, staff investigated one report of a suspected bloom, although it turned out not to be cyanobacteria. Staff continues to follow the status of a previously reported bloom in Hensley Lake (Madera County). No human illness or animal impacts have been reported.

Table 2. Cyanobacteria Bloom Summary: January – February 2019

Number of Suspected Blooms Investigated since previous EO Report:	1
Number of Confirmed Blooms since previous EO Report:	0
Number of Continuing Blooms from previous EO Report:	1
Number of Distinct Water Bodies with Confirmed Blooms since previous EO Report:	1
Number of Human Illnesses Reported since previous EO Report:	0
Number of Animal Impacts Reported since previous EO Report:	0

GRANTS

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

Approximately \$4 million is available for the 2019 solicitation through a grant from the USEPA 319(h) Program. The purpose of the program is to provide funds to restore and protect the beneficial uses of water throughout the State through the control of nonpoint source pollution consistent with completed TMDLs or TMDLs under substantial development. In addition, approximately \$1 million from the Timber Regulation and Forest Restoration Fund will be used to address post-fire recovery needs in areas affected by fire, as indicated in the emergency proclamations by the Governor, the 2019 Nonpoint Source Program Preferences include post-fire recovery projects.

For more information, please visit the NPS website: https://www.waterboards.ca.gov/water_issues/programs/nps/319grants.shtml.

UPDATE: This grant solicitation has ended for the 2019 application cycle. Applications were received in December 2018 and for the Central Valley Water Board, one post-fire recovery application was submitted by Lake County Watershed Protection District, Department of Water Resources for the Scotts Valley Post-Fire Recovery Storm Water Project. Projects will be selected in April 2019.

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

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

Eightmile Valley Sediment Reduction and Habitat Enhancement Project (\$749,992) – The Bureau of Land Management will reduce the volume of sediment delivered to Clear Lake by realigning a severely eroded stream channel, establishing a prescriptive treatment for erosion control, installing grade control structures and engineering bank revetment using hardscape, bioengineering and revegetation. (end date 4/30/2021)

Mendocino Complex Fire Pollutant Mitigation Project (\$605,000) – The Lake County RCD will assess fire-damaged properties within the Clear Lake Watershed and will implement BMPs that may include replacing or repairing burned or damaged culverts, cleaning culverts, reshaping roads, contour, ripping and installing log erosion barriers, revegetating with native plants, installing instream protections (3/31/2019).

Timber Regulation and Forest Restoration Fund On-going Grants:

Ponderosa Way Road Assessment and Sediment Reduction Plan (Phase 1) (\$300,000) – The Resource Conservation District of Tehama County will prepare an Action Plan to reduce sedimentation from two miles of Ponderosa Way and another eight miles of roads upslope and/or downslope of Ponderosa Way within the Battle Creek Watershed, implement one project to reduce sediment inputs to Battle Creek and prepare CEQA document for future road fixes. (Closing 4/30/2019) There is currently a time extension request waiting for final approval which will push the closing date to 7/30/2020.

Ponderosa Way Road Assessment and Sediment Reduction Plan Phase II) (\$500,000) – The Resource Conservation District of Tehama County will conduct a road-related sediment survey on Ponderosa Way in Eastern Tehama County between State route 36E and State Route 32E (Project Area). This project will result in a sediment reduction plan for the Project Area with one or more demonstration projects in the Project Area. (Closing 4/30//2020)

Battle Creek Watershed Based Plan (\$492,438) – The Battle Creek Watershed Conservancy will develop a Watershed-Based Plan and implement a sediment reduction demonstration project in the Battle Creek Watershed. (Closing 6/30/2019)

Post-Fire Response to Forest Management (\$329,519) – California Department of Forestry and Fire Protection will quantify the effects of post-fire management practices such as logging, ripping, and herbicide application on stormwater runoff rates, sediment delivery, organic matter transport, and soil properties in the Boggs Mountain Demonstration State Forest. (Closing 4/20//2020)

Roadside Fuel Reduction (\$370,000) – Yuba County will construct 185 acres of shaded fuel breaks along 30 miles of roadways in the Yuba foothill state recreation area. This project will result in enhanced fire safety and prevent water quality degradation from wildfires. (Closing 4/30/2020)

Battle Creek Watershed Road Sediment Reduction Program Phase 1 & 2 (\$406,350) – The Western Shasta Resource Conservation District will prepare a prioritized erosion prevention plan to identify and reduce road-related sediment inputs to North Fork Battle Creek. The project will include a road assessment on approximately 23 miles of county roads, a training workshop to provide road crews with techniques to perform an effective implementation project along Rock Creek Road, and the preparation of CEQA documents. (Closing 10/31//2021)

North Butte County Road Inventory and Improvement Project (\$375,000) – The Resource Conservation District of Butte County will conduct a road inventory and prepare an Action Plan to reduce sedimentation from native surface roads located within the Butte Creek and Big Chico Creek watersheds (67 miles), prepare a CEQA document, implement road upgrades along four (4) miles of Powellton Road within the Butte Creek watershed, and hold two public workshops. (Closing 2/28/2021)

Deer Creek North Yuba River Watershed Assessment and Sediment Reduction Plan (\$255,100) – The Tahoe National Forest will prepare an Action Plan to reduce sedimentation from native surface roads located within the Deer Creek and North Yuba watersheds, prepare a CEQA document, implement road upgrades within the Deer Creek watershed, and provide public outreach. (Not Executed)

American (\$757,000) – The American River Conservancy is planning to thin approximately 200 acres of merchantable timber under a CAL FIRE Fire Prevention Pilot Project Exemption and associated road maintenance. (Not Executed)

GROUND WATER STRATEGY

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

The amendments were adopted by the Central Valley Water Board during their 31 May 2018 Board meeting. The amendments were transmitted to the State Water Board for their consideration. The State Board released the proposed amendments for public comment; that period ended on 13 August 2018. Central Valley Water Board staff is working with State Board staff to move the amendments through the process, with a hearing date tentatively expected for April 2019. If approved by the State Board, the amendments would be forwarded to the Office of Administrative Law (OAL), and US EPA for consideration. The groundwater portions of the amendments require State Water Board and OAL approval before they could go into effect. The surface water portions of the amendments require US EPA approval before those portions could go into effect. Information is also available at: <http://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: https://www.waterboards.ca.gov/centralvalley/water_issues/groundwater_quality/index.html

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. Approximately 200 poultry facilities have submitted Notices of Intent to comply with the Poultry General Order. The deadline to submit a Notice of Intent for the Bovine Feedlot Order was 1 July 2018. Approximately 300 feedlots have submitted Notices of Intent or requests to merge their feedlot with a dairy and are being processed. Staff will continue outreach to ensure the appropriate facilities get enrolled in the program.

Action 6.5.2(a) Implementation of the Long-Term Irrigated Lands Regulatory Program (ILRP). The goal identified in the roadmap was to implement a program that establishes a groundwater protection program for wastes associated with irrigated agricultural practices. More detail on the Long term ILRP development and implementation can be found under the Irrigated Lands Regulatory Program section of this EO Report or found at: http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/index.shtml

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 continues to coordinate with CDFA on the nitrogen management certification training for Certified Crop Advisors and individual growers and the development of nitrogen removed calculators for use by the agricultural coalitions. Staff is also coordinating with CDFA to augment the irrigation element of the nitrogen management certification training and develop training for continued education credits.

Action 6.5.3(a) Reduce Site Cleanup backlog. The goal of this action is to reduce the number of inactive cases (i.e., the case backlog) in the Site Cleanup Program, which originally had 791 backlog cases. During the 2018/2019 fiscal year, 17 open, inactive cases have been reviewed. Of these, 13 were eliminated from the backlog. Of the cases reviewed, 6 need additional staff time and effort on the responsible party's part to resolve. Since the backlog reduction project began, all 791 backlog cases have been initially reviewed with 622 being eliminated from the backlog, and 176 identified as requiring additional resources (staff later eliminated six of these from the backlog). Of these remaining 169 Open

Inactive Cleanup Program Sites, 51 cases have been assigned to staff who are working on activating the cases.

Action 6.5.4(c) Develop methods to reduce backlog and increase facilities regulated. Staff are continuing to enroll dischargers into the state-wide Small Volume Domestic Order and include rescissions of old WDRs into regular Central Valley Water Board meeting agendas. The State Water Board updated the state-wide general order for water recycling in June 1016.

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

Action 6.15 Onsite Wastewater Treatment Systems (OWTS) Policy Implementation; Local Agency Management Program (LAMP) and Annual Report Reviews. The OWTS Policy gives Local Agencies, mostly county environmental health departments, an option to submit Local Agency Management Programs (LAMPs), which should generally demonstrate adequacy of local codes and ordinances to meet new minimum standards for human health and water quality protection. To date, Central Valley Water Board staff have reviewed 29 of 30 county LAMPs. One LAMP remains incomplete, from Lake County; staff are working closely with the director, Board of Supervisors, and interested parties on a revised draft. Staff have also worked with 22 cities with OWTS inside incorporated boundaries. Most will allow county oversight. However, the Cities of Clovis and Fresno, Fresno County, Los Banos, Merced County, and Visalia, Tulare County, have likely opted for Tier 1. Staff have also reviewed 8 LAMPs that fall primarily under other Regional Board jurisdictions, but that will regulate OWTS within the Central Valley. Staff regularly update LAMP review progress on the following webpage:

https://www.waterboards.ca.gov/centralvalley/water_issues/owts/lamp_reviews/

The OWTS Policy requires all Local Agencies to submit spreadsheet format Annual Reports. For those with approved LAMPs, the Annual Report should include information to support a Water Quality Assessment Program. To help ensure consistency, staff have worked closely with the California Conference of Directors of Environmental Health (CCDEH) and State Board on a report template. The first Annual Report was due 1 February 2019. Most Local Agencies submitted Annual Reports within two weeks of the deadline, generally following the CCDEH template format but with deficiencies. The Redding, Rancho Cordova, and Fresno Offices are reviewing Annual Reports and will request appropriate amendments.

PUBLIC OUTREACH

On 8 January 2019, Bill Bergmann gave a presentation at the City of Corning City Council meeting. The presentation described the planned Site Cleanup Account Program funded investigation of the nature and extent of perchloroethylene contamination along Solano Street.

On 16 January, Alex MacDonald presented at the Aerojet Community Advisory Group's bi-monthly meeting. The presentation provided an update to the CAG on the status of Aerojet's groundwater extraction systems including capture zones, changes since the last update in 2013 and next steps. A second presentation included an update on field activities at the Aerojet Superfund Site and the Inactive Rancho Cordova Test Site, the investigation of perfluorinated compound in groundwater on Aerojet and at the Former Mather AFB, upcoming well installations and reports to be submitted. [AMM]

On 18 January, Christine Joab attended the quarterly meeting of the California Cyanobacteria and Harmful Algal Bloom Network. This is a public meeting where Network members discuss the continued

development and implementation of the statewide Freshwater HAB Program. Topics discussed included the results of a survey on Network actions and new program requests, statewide HAB status updates by region, Subcommittee updates, and general interests for presentations and trainings in 2019. The EPA Director of the Big Valley Rancheria of Pomo Indians also provided a presentation on tribal water quality monitoring throughout California.

On 23 January, Terry Bechtel, gave a presentation on the East San Joaquin petition order requirements to 30 CCAs/PCAs from Stanislaus Farm Supply in Modesto.

On 24 January, Terry Bechtel, gave a presentation to approximately 90 members of the Sacramento Valley Water Quality Coalition's Butte/Yuba/Sutter subwatershed group on the new requirements from the East San Joaquin petition order.

On 28 January, Robert Ditto attended the Sacramento Valley Water Quality Coalition's El Dorado subwatershed group member meeting and gave an overview of the irrigated lands program and the new East San Joaquin petition order requirements.

On 28 January, Bethany Soto attended the Tule River Basin Integrated Regional Water Management (IRWM) Joint Board and Advisory Committee Meeting. The meeting focused on approving the 2019 proposed budget, seeking comments on the amended 2016 Tule IRWM Plan Stormwater/Flooding Study Section, and the need to identify or develop Disadvantaged Community projects for submission to the Disadvantaged Community Involvement Program Project Advisory Committee for funding.

On 29 January, Janis Cooke gave a brief presentation and participated in a panel discussion at the Delta Social Science Task Force Kickoff meeting. The Delta Stewardship Council and the Delta Independent Science Board directed the creation of the Social Science Task Force. The task force is charged with developing a plan to integrate social science into science and management in the Delta.

On 4 February, Robert Ditto attended the East San Joaquin Coalition grower meeting in Madera to present information on the new drinking water monitoring requirements for nitrates. Approximately 350 were in attendance.

On 4 February, Bethany Soto participated in a conference call with the Tulare Basin Integrated Regional Planning Effort, which is a group of IRWM practitioners from the Tulare – Kern Funding Area. The meeting discussed preparing a summary of Tulare-Kern Funding Area projects in preparation for Department of Water Resources' pre-application workshop in April, the Disadvantaged Community Involvement Program Project Advisory Committee is preparing to solicit for Disadvantaged Community projects, and the status of regional groundwater sustainability agencies managing the requirements of the Sustainable Groundwater Management Act.

On 5 February, Bethany Soto participated in a conference call with the Poso Creek IRWM group. The meeting discussed the 2019 budget, the need to identify Disadvantaged Community projects within the Poso Creek IRWM Plan project list for submission to the Disadvantaged Community Involvement Program Project Advisory Committee, and the schedule of Department of Water Resources' Prop 1 funding events, among other upcoming funding opportunities.

On 5 February, Robert Ditto attended the East San Joaquin Coalition grower meeting in Merced to present information on the new drinking water monitoring requirements for nitrates. Approximately 550 were in attendance.

On 6 February, Jennifer Fuller attended the Delta Tributaries Mercury Council meeting. Discussion topics included an overview of stormwater methylmercury control studies conducted for the Delta Mercury Control Program; a wetland methylmercury control study at the Cosumnes River Preserve; and an update on the Headwater Mercury Source Reduction Strategy for the Sierra foothills.

On 6 February, Bethany Soto participated in a conference call with the Westside-San Joaquin IRWM Region group. Topics included grant activities for 2019, an update on the Disadvantaged Community

Involvement Program both in the San Joaquin River Funding Area and the Tulare-Kern Funding Area, IRWM activity participation, and the regional interest in developing a Stormwater Resources Plan.

On 7 February, Janis Cooke attended the McCormack Williamson Tract and Operation Baseline Information Meeting hosted by the Delta Science Program. Researchers provided updates about scientific investigations occurring at the McCormack Williamson Tract in the northeastern Delta before and during restoration of the tract for flood control and floodplain habitat. Updates were also provided about monitoring and investigations in the Sacramento River/Cache Slough Complex ahead of the Sacramento River Wastewater Treatment Plant upgrade.

On 8 February, Robert Ditto and Sue McConnell attended the East San Joaquin Coalition grower meeting in Modesto. Robert presented information on the new drinking water monitoring requirements for nitrates. Approximately 850 were in attendance.

On 12 February, Susan Fregien attended the Institutional Design for Nutrient Management meeting by teleconference. The purpose of the meeting was for UC Davis, UCANR, Water Boards, and CAPCA representatives to discuss how to set up the nutrient management certification program.

On 13 February, Alex MacDonald provided an update on the status of the groundwater remedies being conducted at the Aerojet Superfund Site and the adjacent Inactive Rancho Cordova Test Site to the Sacramento Central Groundwater Authority. The presentation focused on groundwater extraction, plume capture zones and treatment and disposal of the treated groundwater. The appearance of the emerging contaminant class of per and polyfluoroalkyl substances (PFAS) in the groundwater at Aerojet and the former Mather Air Force Base. [AMM]

On 13 February, Anthony Toto participated in an Environmental Justice tour from Fresno to Kettleman City. Stops along the way included Malaga, Calwa, South Fresno, and Kettleman City. The bus tour was well attended with over 40 participants. The hosts of the tour were Miguel Alatorre and Bradley Angel, Greenaction for Health and Environmental Justice; Nayamin Martinez, Central California Environmental Justice Network; Rey Leon, The Latino Equity Advocacy & Policy Institute (and Mayor of Huron); and Maricela Mares Alatorre, El Pueblo. A tamale dinner was served in Kettleman City for a \$10 donation and the Kings Identifying Violations Affecting Neighborhoods (IVAN) community meeting followed the dinner.

On 19 February, Guy Chetelat participated in the Lower Clear Creek Phase 3C Project planning meeting in Redding. Planning agencies and tribe representatives provided input on restoring floodplain function, habitat, and water quality for part of lower Clear Creek that was damaged by mining.

On 20 February, Adam Laputz, Sue McConnell, and Susan Fregien attended the Placer-Nevada-South Sutter-North Sacramento Subwatershed Group Annual Member Meeting. The purpose of the meeting was to update grower members on ILRP status and new requirements. Sue McConnell presented an overview of new ILRP requirements recently adopted by the Board. Adam and Sue fielded many questions and concerns about the program changes.

On 21 February, Scott Hatton gave a presentation at the WaterReuse, Central Valley/Sierra Foothills Chapter meeting to discuss how the State Boards Recycled Water Policy will be incorporated into our permitting activities to be consistent with the Policy.

On 28 February, Sue McConnell and Dana Kulesza met with a representative of California Certified Organic Farmers (CCOF) and three organic farmers certified by CCOF who are also ILRP Coalition Group members. The group discussed each member's farm, ILRP member requirements in relation to their farms, and the desire to explore potential ways in which ILRP requirements might be tailored in the future for organic farms or other groups. The group plans to begin investigating some of these possibilities and meet again soon.

On 28 February, Sue McConnell met with 17 delegates from the Institute of Environmental and Sustainable Development in Agriculture, an affiliate research organization of the Chinese Academy of

Agricultural Sciences. Sue presented an overview of the Irrigated Lands Regulatory Program and answered questions about the program.

On 5 March, 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. Questions and concerns of valley fever exposure in the area of High Speed Rail (HSR) construction activities were discussed. Anthony provided contacts for HSR and links to Kern County public health, sections of the EIR/EIS for HSR, and Center of Disease Control weblink.

On 6 March, Guy Chetelat participated in a stakeholder meeting on PG&E Pit River 3,4,5 hydropower facilities held in Sacramento. The meeting included discussion of Lake Britton water quality and cyanobacteria bloom monitoring performed by PG&E.

GENERAL UPDATES TO THE BOARD

1. Constituents of Emerging Concern (CECs)

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

Staff worked with the POTW/MS4 group to secure funding from the Delta Regional Monitoring Program (DRMP) Steering Committee to develop a Quality Assurance Project Plan (QAPP) and fund program implementation costs (e.g. – planning, contracting, start-up mobilization, etc.). The Aquatic Science Center is developing a draft QAPP and Sampling and Analysis Plan for the CEC Subcommittee to provide feedback on prior to submittal to the Surface Water Ambient Monitoring Program for approval.

The Aquatic Science Center recently submitted an application on behalf of the DRMP on 26 October 2018 for a Proposition 1 Delta Science Proposal Solicitation. The submitted application expands the approved Work Plan to include non-targeted analysis, invitro bioassays, and sampling for microplastics. A decision regarding the grant is expected in March 2019 at the earliest. Additional funding through Supplemental Environmental Projects may be obtained once a Resolution to allow the Central Valley Water Board to direct penalty funds to the DRMP Supplemental Environmental Project. The comment period for the Resolution closed on 4 March 2019, but a date to hear the Resolution at a State Board Meeting has not been set. Ambient CEC sampling is scheduled to begin July 2019.

PERSONNEL AND ADMINISTRATION

STAFFING UPDATES

January 1, 2019 – February 28, 2019

Promotion:

Xuan Luo – Senior WRCE
Kelli Garver – SSM II

Leave of Absence:

Marilyn Petruescu – EG
Elizabeth Welch – WRCE

Retirement:

None

Authorized Positions: 261.7

Vacant Positions: 10.2

Separations	New Hires
Brian Taylor – EG Thomas Key – EG Mercedes Merino – EG Henry Jones – EG	William Chen – WRCE Shirley Garcia – AGPA Heidi Lanza – WRCE Janae Fried – EG Vanessa Soto – ES

Temporary Help Positions

Separations	New Hires
Truc Le – Eng/Arch Student Lindsey Xayachack – Scientific Aid	Michael Whalen – Scientific Aid Xiaowei Liu – Scientific Aid My Nai – Scientific Aid Stephanie Jamis – Scientific Aid Elizabeth Reece – Scientific Aid Courtney Chagolla – Scientific Aid

TRAINING UPDATE
January 1, 2019 – February 28, 2019

Class Title	Number of Attendees
2019 California Plant & Soil Conference	1
2019 Multi-State Salinity Coalition Annual Salinity Summit	1
40-Hour HAZWOPPER Training	3
4-Hour Field Safety Training	1
California Basic Inspector Academy	1
Defensive Driver Training	3
EEO: Workplace Rights and Responsibilities	83
Ethics Training for State Officials	10
Excel Level 3	1
Field Safety Training	4
Geosynthetic Webinar 1 - Ponds: Liner System Design / Operations	1
GIS Analysis and Map Design	1
Highly Effective Professional Writing	9
Implementing Strengths-Based Leadership	1
Low-Flow Groundwater Sampling Latest Research and Equipment Options	3
MSHA New Miner Surface Training	1
PE Civil Review Course	1
Ponds: Liner System Design and Operations	1
Risk Management	11
State Supervisory Training	1
Water Sampling Techniques, Getting it Right	1

FISCAL UPDATE

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

CONTRACTS

OPERATIONAL SUPPORT SERVICES					
CONTRACT NUMBER	CONTRACTOR NAME	DESCRIPTION	START DATE	END DATE	AMOUNT
16-029-150	Courtney Aviation	Airplane inspection services – Rancho Office	04/18/2017	03/31/2019	\$40,000
17-084-150, Am. 1	Air Shasta Rotor and Wing, Inc.	Helicopter inspection services – Redding Office	05/24/2018	09/30/2020	\$60,000
WATER QUALITY STUDY/PLANNING					
16-046-150, Am. 1	UC Davis	Study to develop reference toxicity values for herbicides/fungicides present in Delta for native algal species.	TBD	02/12/2020	\$375,000
16-048-150	UC Santa Cruz	Evaluation of temperature criteria to recommend methodology for deriving temperature criteria.	03/13/2017	03/31/2019	\$396,250
16-074-150, Am. 2	Lawrence Berkeley National Lab	Plant, soil and water testing	04/28/2018	06/30/2019	\$443,511
17-022-150	Department of Water Resources	Ongoing operation and maintenance – SWAMP.	07/01/2017	06/30/2020	\$180,000
17-054-150	Delta Conservancy	Administrative and program management of the Delta Monitoring Exposure Reduction Program (MERP).	01/09/2018	06/30/2020	\$154,191
17-065-150	USGS	Non-point source aquatic passive sampling study plan (Phase 2).	06/30/2018	03/31/2020	\$190,000
17-066-150	Dept. of Fish and Wildlife	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	03/31/2020	\$154,055
17-069-150	CSU Chico	Tech assistance to design and implement a monitoring program to assess reference conditions in non-perennial streams.	06/30/2018	06/30/2020	\$135,500
18-027-150	UC Davis	Tech assistance to determine pyrethroid partition coefficients for sediment samples of the Central Valley.	11/29/2018	01/31/2021	\$100,000
18-053-150	Caltest Analytical Laboratory	Lab services (Rancho Cordova office)	08/15/2018	06/30/2021	\$240,000
18-054-150	Basic Laboratory, Inc.	Lab services (Redding office)	08/15/2018	06/30/2021	\$165,000
18-055-150	Moore Twining Associates, Inc.	Lab services (Fresno office)	08/15/2018	06/30/2021	\$195,000
18-057-150	UC Davis	Interpretation of Soil Chemistry	07/01/2018	03/31/2020	\$199,987

WATER QUALITY STUDY/PLANNING (continued)

CONTRACT NUMBER	CONTRACTOR NAME	DESCRIPTION	START DATE	END DATE	AMOUNT
18-058-150	Aquatic Science Center	Development of a computer-based biogeochemical model for the Delta and Suisun Bay to quantitatively explore nutrient loads, cycling and characterize ecosystem response under current and future scenarios.	07/01/2018	03/31/2020	\$400,000
18-071-150	Basic Laboratory, Inc.	Emergency lab services – Carr Fire	07/26/2018	06/30/2020	\$110,000
18-084-150	Southern California Coastal Water Research Project Authority	To organize and facilitate a Surface Water Expert Panel to evaluate the adequacy of the surface water monitoring and assessment framework in the Eastern San Joaquin (ESJ) River Watershed General Waste Discharge Requirements	TBD	01/30/2021	\$249,806
18-088-150	Alpha Laboratories, Inc.	Emergency laboratory analysis of water samples – Mendocino Complex Fire.	11/1/2018	10/31/2018	\$70,000
19-002-270	Merced County Department of Public Health	To revise and/or modify existing online proprietary reporting tools for preparing annual reports and waste management plans developed for dairy operations to be used by bovine operations.	TBD	03/31/2022	\$300,000
19-003-150	Southern California Coastal Water Research Project Authority	The project will identify the environmental drivers contributing to cyanobacterial blooms and toxin production in Clear Lake, Lake County.	TBD	03/31/2022	\$510,000
19-004-150	TBD	Web-based, interactive presentation/display of landscape level forest health and water quality assessment/planning for protection of the Battle Creek watershed.	TBD	03/31/2022	\$95,000
TBD	Department of Water Resources	Implementation of the Sacramento Watershed Coordinated Monitoring Program to monitor ambient surface water quality status and trends in the Sacramento River Basin.	TBD	06/30/2022	\$525,000

FUTURE BOARD ACTIVITIES

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

JUNE 2019 BOARD MEETING

NPDES PERMITS

- Port of Sacramento and Stockton Maintenance Dredging Memorandum of Understanding between the United States Army Corps of Engineers and Central Valley Regional Water Board, San Joaquin and Sacramento Counties

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Beale Air Force Base WWTF (New WDRs)
- Tuolumne City Sanitary District (Revised WDRs)
- KRS Truck Wash (New WDRs)
- B&R Truck Wash (New WDRs)
- Tomatek Tomato Processing (Revised WDRs)
- Smuckers Juice (Revised WDRs)
- Westwood STP (Revised WDRs)
- Fulton Reclamation (Revised WDRs)
- Kern-Tulare ID, Hathaway, Jasmine Mutual WC (Revised WDRs)
- City of Vacaville Easterly WWTP Renewal
- Delleker WWTP Renewal
- Yosemite National Park, El Portal WWTF Renewal
- CDCR Deuel Vocational Institution WWTP Renewal
- Burney Cogeneration/Sawmill Renewal
- City of Yuba City Permit Amendment
- City of Lincoln Time Schedule Order
- Cascade Shores Time Schedule Order

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Butts Canyon/Geothermal Incorporated (New WDRs)
- L and D Landfill (Revised WDRs)
- UC Davis Landfill (Revised WDRs)
- Roseville Landfill (Revised WDRs)

AUGUST 2019 BOARD MEETING

NPDES PERMITS

- Town of Discovery Bay WWTP Renewal
- City of Stockton RWCF Renewal
- McClellan AFB GETS Rescission
- Municipal General Order Amendment

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISCHARGE TO LAND

- Campbell Soup Supply Company (Revised WDRs)
- Sacramento Rendering (Amended WDRs)
- Tejon Mountain Village (New WDRs)
- Central Valley Meat – Hanford Facility (Revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- Forward Landfill (Revised WDRs)
- Pittsburg Landfill (Revised WDRs)

IRRIGATED LANDS REGULATORY PROGRAM

- Individual Growers (Revised WDRs)

OCTOBER 2019 BOARD MEETING

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM – DISPOSAL TO LAND

- Bronco Winery (Amended WDRs)
- City of Madera WWTF (Revised WDRs)
- Atlas Business Industrial WWTF (Revised WDRs)
- City of Corcoran WWTF (Revised WDRs)

PENDING ACTIONS, BUT NOT YET SCHEDULED FOR A BOARD MEETING

STORM WATER AND WATER QUALITY CERTIFICATION

- General Order for Dredging Activities not requiring a Federal Permit/General 401 Certification for Dredging Activities requiring a Federal Permit
- Caltrans, Grapevine Channel Repair, Waste Discharge Requirements for Dredge/Fill Activity, Kern County
- Clearlake Nutrient TMDL TSO – Phase II MS4

NPDES PROGRAM – PERMITTING

- Merced WWTF Renewal
- Anderson WPCP Renewal
- Wheelabrator Shasta Energy Renewal
- City of Modesto WQCF Amendment
- Bear Valley Water District WWTF Amendment
- Cold Water CAAP General Order Renewal

WASTE DISCHARGE REQUIREMENTS (WDR) PROGRAM - DISCHARGE TO LAND

- Barrel 10 Winery (Revised WDRs)
- City of Sutter Creek (Revised WDRs)
- City of Galt (Revised WDRs)
- City of Huron (WWTF)
- City of Lodi (Revised WDRs)
- City of Lone WWTF (Amended WDRs)
- City of Manteca WWTF (Revised WDRs)
- City of Modesto WWTF (Revised WDRs)
- City of Richgrove WWTF (Revised WDRs)
- Mule Creek State Prison (Amended WDRs)
- Dairy General Order (Revised WDRs)
- E&J Gallo Madera (Revised WDRs)
- E&J Gallo Livingston (Revised WDRs)
- Exeter Ivanhoe Citrus (Revised WDRs)
- Farmersville WWTF (Revised WDRs)
- Former Pilkington Glass Manufacturing Facility (Revised WDRs)
- Golden Feather School District, Spring Valley School (Revised WDRs)
- E&J Gallo Liberty Winery (New WDRs)
- Maxwell PUD (Revised WDRs)
- Mokelumne Rim Vineyards (Revised WDRs)
- North State Rendering Tallow Plant (Revised WDRs)
- Sun Maid Raisins Orange Cove (Revised WDRs)
- Tasteful Selections (Revised WDRs)
- Wonderful Pistachios (Revised WDRs)

LAND DISPOSAL PROGRAM – CHAPTER 15/TITLE 27

- SMS Briners (Revised WDRs)
- Ponderosa Landfill (Revised WDRs)
- Dixon Pit Landfill (Revised WDRs)
- Rio Vista Landfill (Revised WDRs)
- Steele Canyon Landfill (Revised WDRs)
- Lincoln Landfill (Revised WDRs)
- Meadow Vista Landfill (Revised WDRs)
- Cannon and Scallon Properties/28th St Landfill (Revised WDRs)
- Western Regional Landfill (Revised WDRs)
- Geer Landfill (Revised WDRs)
- Aquaclear Farms (Revised WDRs)
- Recology Hay Road (Revised WDRs)
- Malaga WWTF Rescission
- Alturas WWTP Renewal
- Sierra Pacific Industries Burney Division Sawmill Renewal
- Woodland WWTP Renewal
- Sequoia/Kings Canyon National Parks Rotenone Application (New Permit)
- Stallion Springs WWTF Renewal

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

Central Valley Pyrethroids Basin Plan Amendment

The Basin Plan Amendment was adopted by the Central Valley Water Board on 8 June 2017, approved by the State Water Board on 10 July 2018, and Approved by the Office of Administrative law on 19 February 2019. The non-TMDL elements of the Amendment are now fully approved and effective. The TMDLs in the Amendment have been sent to USEPA for potential approval. A USEPA approval decision on the TMDLs is expected in April 2019.

Mercury Implementation Plan for Reservoirs

Staff from Regions 2, 5 and DWQ are developing a program to address fish mercury impairments in about 130 reservoirs statewide. Staff prepared the scientific and technical analysis and regulatory provisions for a statewide TMDL and implementation plan. The scientific peer review is complete. Project sponsors are discussing options for regulatory approach.

CV-SALTS Basin Plan Amendments

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. Central Valley Water Board adopted a Central Valley-wide Salt and Nitrate Control Program on 31May2018. Supporting policies included a revised Variance and Exceptions Policy; Drought and Conservation Policy; Offsets Policy; and clarification on the use of Secondary MCLs to protect the MUN use. Staff preparing to bring amendments to the State Board, OAL and USEPA for approval. (no changes to this summary as of 10/30/2018-AL).

Revision of General Order for Existing Dairies

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

Water Quality Objectives for Ammonia

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

USFS MOU for BAER activities

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.

Basin Plan Amendment for a region-wide evaluation process for the Municipal and Domestic Supply (MUN) beneficial use in agriculturally dominated surface water bodies

The BPA was adopted on 11 August 2017. At the State Water Board approval hearing on 10 July 2018, the decision was made to bring the item back to the Board for consideration at a future date. A follow-up adoption hearing has not been scheduled. Amendments would also need approval by OAL and as appropriate, USEPA. (No changes to this summary as of 10/30/2018-AL)

Development of Permit for Federal Non-Point Source (NPS) activities on Forest Lands

R5 is working with R6 to develop similar permits to cover NPS activities on USFS and BLM managed lands with the potential to affect water quality. The R5 MS4 permit is being used as a model and an EIR will be developed to address CEQA. 6 initial public outreach meetings were held from October through early December 2017. Project information can be found here: http://www.waterboards.ca.gov/lahontan/water_issues/programs/nps/federal_lands/

ATTACHMENT A - Sanitary Sewer Spills - Summary Report

Count of Spills for 1 December 2018 through 28 February 2019

Count of Spills Month	5F				5R				5S				Grand Total
	Category 1	Category 2	Category 3	5F Total	Category 1	Category 2	Category 3	5R Total	Category 1	Category 2	Category 3	5S Total	
December 2018	2	1	9	12	0	1	1	2	8	3	122	133	147
January 2019	2	1	7	10	1	1	3	5	11	3	112	126	141
February 2019	0	0	2	2	1	2	3	6	21	3	9	33	41
Total	4	2	18	24	2	4	7	13	40	9	243	292	329

Spill Cause	Count of Spills	%
Root Intrusion	162	49.2%
Debris-General	52	15.8%
Grease Deposition (FOG)	34	10.3%
Debris-Rags	11	3.3%
Operator error	11	3.3%
Other (specify below)	9	2.7%
Debris from Lateral	7	2.1%
Debris-Wipes/Non-Dispersables	7	2.1%
Vandalism	7	2.1%
Damage by others not related to CS Const/Maint.	4	1.2%
Pipe Structural Problem/Failure	4	1.2%
Damage by Others Not Related to CS Construction/Maintenance	3	0.9%
Flow Exceeded Capacity (Separate CS Only)	3	0.9%
Rainfall Exceeded Design, I and I (Separate CS Only)	3	0.9%
CS Maintenance Caused Spill/Damage	2	0.6%
Debris from Construction	2	0.6%
Pump Station Failure-Controls	2	0.6%
Pump Station Failure-Mechanical	2	0.6%
Pump Station Failure-Power	2	0.6%
Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure	1	0.3%
Construction Diversion Failure	1	0.3%
Total	329	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 - 1 December 2018 and 28 February 2019

REGION	Collection System	WQID	Spill ID	Spill Status	SPILL_TYPE	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Total Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Start Date	SPILL_CAUSE
SS	Hidden Valley Lake CS	555010967	856538	Certified	Category 2	Equalization Basin, Wastewater Treatment Plant	Lake	No	353100	0	2/26/2019	Rainfall Exceeded Design, I and I (Separate CS Only)
SS	Southeast Regional Waste Disp Fac CS	555011055	856106	Certified	Category 1	14954 Burns Valley Rd., Clearlake, CA	Lake	Yes	192950	192950	2/13/2019	Flow Exceeded Capacity (Separate CS Only)
SS	Hidden Valley Lake CS	555010967	856240	Certified	Category 2	Equalization Basin, Wastewater Treatment Plant	Lake	No	158400	0	2/14/2019	Rainfall Exceeded Design, I and I (Separate CS Only)
SF	City Of Bakersfield CS	555010717	854994	Certified	Category 2	Abigal - Between Tori Lorene and Kimmie Rachelle	Kern	No	54000	0	12/30/2018	Construction Division Failure
SF	Groveland CS	555010961	856564	Certified	Category 1	13080 Gamble Street	Tuolumne	Yes	48000	16250	1/16/2019	Pipe Structural Problem/Failure
SS	Ironhouse Sanitary District CS	555010970	854586	Certified	Category 1	5L3 Vault	Contra Costa	Yes	45000	44000	12/19/2018	Air Relief Valve (ARV)/Blow-Off Valve (BOV) Failure
SS	Auburn Lk Trls Onsite WW Disp CS	555010869	856026	Certified	Category 1	Station 16	El Dorado	Yes	27200	27200	2/7/2019	Operator Error
SS	Lake Berryessa Resort CS	555010981	855358	Certified	Category 1	Lift Station A	Napa	Yes	20000	20000	1/16/2019	Other (specify below)
SS	Hidden Valley Lake CS	555010967	856517	Certified	Category 1	Hidden Valley Lake, Wastewater Treatment Plant, manhole	Lake	Yes	18000	18000	2/26/2019	Flow Exceeded Capacity (Separate CS Only)
SS	Southeast Regional Waste Disp Fac CS	555011055	856098	Certified	Category 1	Meadowbrook Dr. and Lakeview Dr., Clearlake, CA	Lake	Yes	10125	10125	2/13/2019	Flow Exceeded Capacity (Separate CS Only)
SR	Alpine Meadows/Whispering Wood CS	555010782	856279	Certified	Category 2	shingletown	Shasta	No	9600	0	2/15/2019	Pump Station Failure-Power
SS	Southeast Regional Waste Disp Fac CS	555011055	855292	Certified	Category 2	Manchester Ave & Alvita Ave in Clearlake, CA	Lake	No	9500	0	1/14/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855974	Certified	Category 1	235072	Sacramento	Yes	8878	8854	2/2/2019	Root Intrusion
						Manhole V10-4, located in street adjacent to 8585 Commercial					2/14/2019	
SR	Redding City CS	555010801	856368	Certified	Category 1	Way	Shasta	Yes	7500	7500		Other (specify below)
SR	Red Bluff CS	555010845	855845	Certified	Category 1	612 Main St.	Tehama	Yes	5498	48	1/29/2019	Grease Deposition (FOG)
SR	Red Bluff CS	555010845	855406	Certified	Category 2	1 Sutter st.	Tehama	No	5070	0	1/17/2019	Pump Station Failure-Mechanical
SS	Napa Berryessa CS	555011008	855430	Certified	Category 1	NBRID Lift Station 2 Overflow	Napa	Yes	5000	5000	1/17/2019	Pump Station Failure-Power
SS	Sacramento Area Sewer District CS	555010912	855215	Certified	Category 1	232721	Sacramento	Yes	4590	4395	1/7/2019	Root Intrusion
SS	City of Sacramento Combined CS	555010901-C	854657	Certified	Category 2	3180 S Street, Sacramento, CA	Sacramento	No	4291	0	12/16/2018	Root Intrusion
SS	SMD No. 2 CS	555011362	854743	Certified	Category 1	7630 Sierra Drive, Granite Bay, CA	Placer	Yes	3480	2000	12/25/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855240	Certified	Category 1	233144	Sacramento	Yes	2695	2366	1/3/2019	Debris-General
SS	Napa Berryessa CS	555011008	856141	Certified	Category 1	Lift Station 2 - Float Level Switch	Napa	Yes	2500	2500	2/13/2019	Other (specify below)
SF	Twain Harte CSD CS	555010772	855020	Certified	Category 1	Twain Harte school spill	Tuolumne	Yes	2324	701	12/31/2018	Debris-General
SS	City of Sacramento Utilities CS	555010901	854988	Certified	Category 2	4911 36th Street, Sacramento, CA 95820	Sacramento	No	2206	0	12/30/2018	Root Intrusion
SF	City of Fresno CS	555011202	855470	Certified	Category 2	304 N Channing	Fresno	No	2121	0	1/15/2019	Vandalism
SR	Red Bluff CS	555010845	855886	Certified	Category 2	1660 Monroe st	Tehama	No	1830	0	2/5/2019	Pump Station Failure-Mechanical
SS	Martell CS	555011460	855370	Certified	Category 2	Lift Station 2 Martell	Amador	No	1800	0	1/17/2019	Rainfall Exceeded Design, I and I (Separate CS Only)
SR	Red Bluff CS	555010845	854062	Certified	Category 2	535 Adobe rd.	Tehama	No	1680	0	12/6/2018	Grease Deposition (FOG)
SF	Fresno Co 41-Shaver Lake CS	555011297	854975	Certified	Category 1	Waterworks 41	Fresno	Yes	1500	100	12/29/2018	Root Intrusion
SS	City of Sacramento Utilities CS	555010901	854014	Certified	Category 2	2148 Amanda Way, Sacramento, CA	Sacramento	No	1358	0	12/2/2018	Debris-General
SS	City of Sacramento Utilities CS	555010901	856052	Certified	Category 2	96 Sandburg Drive, Sacramento, CA 95819	Sacramento	No	1350	0	2/9/2019	Other (specify below)
SS	Sacramento Area Sewer District CS	555010912	855591	Certified	Category 1	234104	Sacramento	Yes	1146	500	1/16/2019	Vandalism
SS	Sacramento Area Sewer District CS	555010912	856420	Certified	Category 1	236344	Sacramento	Yes	1012	996	2/15/2019	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
SS	Sacramento Area Sewer District CS	555010912	856038	Certified	Category 1	235416	Sacramento	Yes	1008	630	2/9/2019	Grease Deposition (FOG)
SS	Davis CS	555010921	855570	Certified	Category 2	2689 Sycamore Lane	Yolo	No	1000	0	1/24/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856100	Certified	Category 1	235544	Sacramento	Yes	950	940	2/12/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855715	Certified	Category 3	231187	Sacramento	No	835	0	12/10/2018	Root Intrusion
SS	City of Sacramento Combined CS	555010901-C	855136	Certified	Category 3	3250 San Diego Way, Sacramento, CA 95820	Sacramento	No	806	0	1/6/2019	Debris from Lateral
SS	Sacramento Area Sewer District CS	555010912	856605	Certified	Category 3	234568	Sacramento	No	665	0	1/26/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855663	Certified	Category 1	234289	Sacramento	Yes	626	606	1/6/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855753	Certified	Category 3	231585	Sacramento	No	623	0	12/17/2018	Root Intrusion
SS	Easterly CS	555010938	854281	Certified	Category 3	131 oak hill ct.	Solano	No	616	0	12/11/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855755	Certified	Category 3	231981	Sacramento	No	589	0	12/25/2018	Root Intrusion
SF	Kern Sanitation Authority CS	555010737	855352	Certified	Category 3	KSA MH# 236.5 GAY STREET	Kern	No	517	0	1/8/2019	Debris-Rags
SS	Sacramento Area Sewer District CS	555010912	855929	Certified	Category 1	235044	Sacramento	Yes	515	493	2/2/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855151	Certified	Category 1	232677	Sacramento	Yes	513	507	1/3/2019	Root Intrusion
SS	City Of Auburn CS	555010722	855086	Certified	Category 3	Elm Ave HWY49 SSO	Placer	No	500	0	12/30/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856028	Certified	Category 1	235274	Sacramento	Yes	483	476	2/2/2019	Debris from Construction
SS	City Of Folsom CS	555010893	854735	Certified	Category 1	8510 Mosswood Cir	Sacramento	Yes	450	350	12/26/2018	Root Intrusion
SR	Red Bluff CS	555010845	856414	Certified	Category 3	1660 monroe st	Tehama	No	429	0	2/21/2019	Pump Station Failure-Controls
SS	Sacramento Area Sewer District CS	555010912	855923	Certified	Category 1	235021	Sacramento	Yes	423	284	2/2/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856031	Certified	Category 1	235392	Sacramento	Yes	420	414	2/8/2019	Root Intrusion
SF	City Of Merced CS	555010724	856377	Certified	Category 3	822 Joyce Avenue	Merced	No	417	0	1/21/2019	Debris-Rags
SS	Davis CS	555010921	854736	Certified	Category 3	Stanford Place	Yolo	No	405	0	12/22/2018	Other (specify below)
SF	City of Fresno CS	555011202	855670	Certified	Category 3	Palm and Terrace	Fresno	No	380	0	12/20/2018	Vandalism
SS	Sacramento Area Sewer District CS	555010912	856235	Certified	Category 1	235859	Sacramento	Yes	370	363	2/12/2019	Root Intrusion
SF	SA-2 Bass Lake CS	555011319	855594	Certified	Category 1	Wishon Cove Camp	Madera	Yes	360	360	1/25/2019	Root Intrusion
SS	Lincoln Village Maintenance District CS	555011482	856522	Certified	Category 3	2624 SwainRd	San Joaquin	No	360	0	1/30/2019	Debris-General
SF	MD-22A Oakhurst CS	555011311	856374	Certified	Category 3	40077 Enterprise Dr. oakhurst ca 93644	Madera	No	350	0	2/22/2019	Pump Station Failure-Controls
SS	Sacramento Area Sewer District CS	555010912	856560	Certified	Category 3	232848	Sacramento	No	333	0	1/8/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855747	Certified	Category 3	231509	Sacramento	No	329	0	12/12/2018	Root Intrusion
SS	Clearlake Oaks Co Wtr Dis CS	555010906	855957	Certified	Category 1	Clearlake Oaks at Oak Grove Ave. and Highway 20	Lake	Yes	300	150	2/6/2019	Debris from Construction
SF	Wasco State Prison CS	555010775	856250	Certified	Category 3	Wasco State Prison	Kern	No	300	0	2/14/2019	Debris-Rags
SS	Sacramento Area Sewer District CS	555010912	856615	Certified	Category 3	234960	Sacramento	No	278	0	1/31/2019	Root Intrusion
SS	SMD No. 2 CS	555011362	856641	Certified	Category 3	6780, 6800, and 6830 Country Ct, Granite Bay, CA	Placer	No	265	0	1/16/2019	Root Intrusion
SS	City of Sacramento Combined CS	555010901-C	855502	Certified	Category 3	2000 Stockton Blvd, Sacramento, CA 95817	Sacramento	No	254	0	1/16/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855980	Certified	Category 1	235095	Sacramento	Yes	252	215	2/2/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856285	Certified	Category 1	236091	Sacramento	Yes	240	150	2/16/2019	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
SF	Tuolumne Utilities District CS	555010771	855021	Certified	Category 3	Easement behind 1162 Shaws Flat	Tuolumne	No	240	0	12/24/2018	Root Intrusion

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - 1 December 2018 and 28 February 2019

REGION	Collection System	WQID	Spill ID	Spill Status	SPILL_TYPE	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Total Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Start Date	SPILL_CAUSE
SS	Sacramento Area Sewer District CS	555010912	855693	Certified	Category 3	231293	Sacramento	No	222	0	12/12/2018	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856132	Certified	Category 1	235672	Sacramento	Yes	220	220	2/13/2019	Root Intrusion
SF	Livingston City CS	555011309	855010	Certified	Category 3	Peach and 7th Street lamphole	Merced	No	218	0	12/11/2018	Grease Deposition (FOG)
SS	City of Woodland CS	555010903	855785	Certified	Category 3	757 Daniels St	Yolo	No	211	0	12/12/2018	Root Intrusion
SS	City of Lakeport CS	555010896	853995	Certified	Category 3	450 Sayre Street	Lake	No	203	0	12/3/2018	Root Intrusion
SR	Redding City CS	555010801	855683	Certified	Category 3	Manhole J11-7, near 1891 Edgewood Dr	Shasta	No	200	0	1/13/2019	Debris-Rags
SS	Sacramento Area Sewer District CS	555010912	855717	Certified	Category 3	231541	Sacramento	No	199	0	12/15/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	854664	Certified	Category 1	231879	Sacramento	Yes	173	171	12/20/2018	Root Intrusion
SR	Portola CS	555010843	854473	Certified	Category 3	349 E. Sierra Ave.	Plumas	No	150	0	12/18/2018	Debris-Wipes/Non-Dispersibles
SS	Sacramento Area Sewer District CS	555010912	854360	Certified	Category 1	231152	Sacramento	Yes	144	139	12/9/2018	Debris-General
SS	City of Stockton MUD CS	555014433	855520	Certified	Category 3	7550 Karlsburg Ci. Stockton Ca	San Joaquin	No	142	0	1/17/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856556	Certified	Category 3	232745	Sacramento	No	135	0	1/7/2019	Root intrusion
SS	City Of Jackson CS	555010895	854199	Certified	Category 3	420 Pitt St. & Hwy 88	Amador	No	132	0	12/10/2018	Debris-Rags
SS	Nevada City CS	555011011	854754	Certified	Category 3	119 Nivens Street	Nevada	No	131	0	12/14/2018	Root Intrusion
SR	Red Bluff CS	555010845	856233	Certified	Category 3	552 Washington St.	Tehama	No	130	0	2/14/2019	Other (Specify below)
SS	Rancho Murietta Community Service District CS	555011487	854163	Certified	Category 1	15213 Celebrar	Sacramento	Yes	120	95	12/10/2018	Debris-General
SS	Rancho Murietta Community Service District CS	555011487	855807	Certified	Category 3	Abierto spill	Sacramento	No	120	0	1/31/2019	Debris-Wipes/Non-Dispersibles
SS	Sacramento Area Sewer District CS	555010912	855746	Certified	Category 3	231470	Sacramento	No	117	0	12/13/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855574	Certified	Category 1	234006	Sacramento	Yes	114	40	1/20/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855687	Certified	Category 3	232265	Sacramento	No	112	0	12/28/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856582	Certified	Category 3	233869	Sacramento	No	111	0	1/18/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855702	Certified	Category 3	231359	Sacramento	No	106	0	12/2/2018	Operator error
SS	Sacramento Area Sewer District CS	555010912	856570	Certified	Category 3	233288	Sacramento	No	105	0	1/11/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855713	Certified	Category 3	232275	Sacramento	No	104	0	12/29/2018	Debris-General
SS	City of Stockton MUD CS	555011433	855146	Certified	Category 3	721 E Charter Way	San Joaquin	No	103	0	1/7/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856612	Certified	Category 3	234836	Sacramento	No	101	0	1/30/2019	Root intrusion
SS	Rio Vista Waste Trt Facility CS	555011037	855648	Certified	Category 1	N. 4th Street	Solano	Yes	100	10	1/28/2019	Debris-Wipes/Non-Dispersibles
SS	Murphys CS	555011007	856521	Certified	Category 3	660 Dam rd Murphys CA	Calaveras	No	100	0	2/27/2019	Other (Specify below)
SF	Wasco State Prison CS	555010775	853944	Certified	Category 3	Wasco State Prison	Kern	No	100	0	12/4/2018	Debris-Rags
SS	City of Stockton MUD CS	555011433	854311	Certified	Category 3	8438 Lorraine Av Stockton Ca	San Joaquin	No	93	0	12/11/2018	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856181	Certified	Category 1	235791	Sacramento	Yes	90	84	2/14/2019	Root Intrusion
SS	SMD No. 1 CS	555011028	855835	Certified	Category 3	SMD 1 SS MHAB4-58 onto Gravel Road	Placer	No	87	0	1/26/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855250	Certified	Category 1	233031	Sacramento	Yes	84	38	1/9/2019	Debris-General
SF	City of Fresno CS	555011202	855541	Certified	Category 3	Shields and Hillard	Fresno	No	80	0	12/27/2018	Root Intrusion
SF	Kern Sanitation Authority CS	555010737	854688	Certified	Category 3	KSA MH#1543 Thelma Drive	Kern	No	80	0	12/23/2018	Debris-General
SS	City of Stockton MUD CS	555011433	853951	Certified	Category 3	754 W Los Felis Av, Stockton Ca	San Joaquin	No	80	0	12/3/2018	Root Intrusion
SR	Orland CS	555011421	855809	Certified	Category 3	239 E. Mill Streer	Glenn	No	75	0	1/29/2019	Operator Error
SS	Jamestown SD CS	555011303	855524	Certified	Category 3	Seg 211 28/18	Tuolumne	No	75	0	12/27/2018	Damage by Others Not Related to CS Construction/Maintenance (Specify Below)
SS	Sacramento Area Sewer District CS	555010912	856600	Certified	Category 3	234487	Sacramento	No	73	0	1/24/2019	Root intrusion
SS	City of Stockton MUD CS	555011433	855522	Certified	Category 3	2110 Knickerbocker Dr. Stockton Ca	San Joaquin	No	72	0	1/21/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855741	Certified	Category 3	231092	Sacramento	No	69	0	12/9/2018	Root intrusion
SS	City Of Jackson CS	555010895	856253	Certified	Category 3	Pitt St and Bright Ave	Amador	No	67	0	2/19/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856554	Certified	Category 3	232674	Sacramento	No	67	0	1/6/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855552	Certified	Category 1	233990	Sacramento	Yes	65	64	1/20/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856610	Certified	Category 3	234688	Sacramento	No	63	0	1/27/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855714	Certified	Category 3	232310	Sacramento	No	63	0	12/29/2018	Root intrusion
SS	White Slough Water Poll Con Pu CS	555011084	856540	Certified	Category 3	2225 Capell Lodi, CA	San Joaquin	No	56	0	1/10/2019	Grease Deposition (FOG)
SS	Ceres CS	555010721	854330	Certified	Category 3	1100 Stonum Rd. Modesto, CA. 95351 man hole in street	Stanislaus	No	55	0	12/13/2018	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856550	Certified	Category 3	232630	Sacramento	No	51	0	1/3/2019	Debris-General
SS	Williams CS	555011088	855842	Certified	Category 3	Granzellas	Colusa	No	50	0	1/19/2019	Grease Deposition (FOG)
SF	City Of Bakersfield CS	555010717	855512	Certified	Category 3	1450 3rd st and Clifton	Kern	No	50	0	1/18/2019	Grease Deposition (FOG)
SS	City of Stockton MUD CS	555011433	855062	Certified	Category 3	7427 Karlsberg Ci Stockton Ca	San Joaquin	No	50	0	1/2/2019	Debris from Lateral
SS	Sacramento Area Sewer District CS	555010912	856546	Certified	Category 3	232447	Sacramento	No	47	0	1/2/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855924	Certified	Category 1	235025	Sacramento	Yes	45	35	2/2/2019	Grease Deposition (FOG)
SF	Clovis City CS	555011214	854692	Certified	Category 3	First Street and Clovis Ave Alley	Fresno	No	45	0	12/24/2018	Debris-Rags
SS	City of Stockton MUD CS	555011433	855676	Certified	Category 3	9219 Darby Ct Stockton Ca	San Joaquin	No	44	0	1/28/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856553	Certified	Category 3	232645	Sacramento	No	44	0	1/4/2019	Root intrusion
SS	Easterly CS	555010938	855083	Certified	Category 3	224 fern	Solano	No	38	0	1/3/2019	Root Intrusion
SS	City Of Antioch CS	555010890	855564	Certified	Category 3	622 w 5th St Antioch CA	Contra Costa	No	36	0	1/24/2019	Grease Deposition (FOG)
SS	White Slough Water Poll Con Pu CS	555011084	856508	Certified	Category 3	35 North Allen Dr. Lodi, CA	San Joaquin	No	36	0	1/10/2019	Debris-Rags
SS	Dry Creek CS	555010935	855199	Certified	Category 3	1331 Champagne Circle	Placer	No	33	0	12/15/2018	Root Intrusion
SS	City of Stockton MUD CS	555011433	853961	Certified	Category 3	1329 E. Scotts Av Stockton Ca	San Joaquin	No	32	0	12/3/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856590	Certified	Category 3	234111	Sacramento	No	31	0	1/22/2019	Root intrusion
SS	Folsom State Prison CS	555011192	854493	Certified	Category 1	Valley Housing 4th Street	Sacramento	Yes	30	30	12/19/2018	Debris from Lateral
SS	City Of Antioch CS	555010890	855015	Certified	Category 3	3924 Folsom Dr Antioch Ca	Contra Costa	No	30	0	12/27/2018	Debris-Rags
SS	Sacramento Area Sewer District CS	555010912	855699	Certified	Category 3	232081	Sacramento	No	30	0	12/26/2018	Debris-General
SS	Davis CS	555010921	854322	Certified	Category 3	1216 Hemlock Lane	Yolo	No	30	0	12/11/2018	Root Intrusion
SS	Dry Creek CS	555010935	855675	Certified	Category 3	1211 Ross Ct.	Placer	No	29	0	1/15/2019	Debris-Wipes/Non-Dispersibles
SS	Sacramento Area Sewer District CS	555010912	856580	Certified	Category 3	233727	Sacramento	No	27	0	1/16/2019	Root intrusion
SS	Folsom State Prison CS	555011192	855885	Certified	Category 3	Folsom State Prison Minimum Support Facility	Sacramento	No	25	0	2/5/2019	Debris from Lateral
SF	City Of Bakersfield CS	555010717	855480	Certified	Category 3	6020 Chicory Dr & Spice Way	Kern	No	25	0	1/21/2019	Grease Deposition (FOG)
SS	City of Stockton MUD CS	555011433	854506	Certified	Category 3	111 W Ponce De Leon Av Stockton Ca.	San Joaquin	No	25	0	12/18/2018	Root Intrusion

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - 1 December 2018 and 28 February 2019

REGION	Collection System	WQID	Spill ID	Spill Status	SPILL_TYPE	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Total Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Start Date	SPILL_CAUSE
SS	City of Stockton MUD CS	555011433	854496	Certified	Category 3	130 W Jefferson St Stockton Ca	San Joaquin	No	25	0	12/17/2018	Root Intrusion
SF	City Of Bakersfield CS	555010717	853851	Certified	Category 3	Manhole - 3100 Coventry Dr & Agate St	Kern	No	25	0	12/2/2018	Grease Deposition (FOG)
SS	City of Stockton MUD CS	555011433	853983	Certified	Category 3	3312 Phelps St Stockton Ca	San Joaquin	No	25	0	12/2/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855691	Certified	Category 3	231661	Sacramento	No	24	0	12/18/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855736	Certified	Category 3	231298	Sacramento	No	24	0	12/12/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856581	Certified	Category 3	233834	Sacramento	No	23	0	1/17/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855696	Certified	Category 3	231891	Sacramento	No	23	0	12/22/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855697	Certified	Category 3	231089	Sacramento	No	22	0	12/9/2018	Root intrusion
SS	City of Stockton MUD CS	555011433	855286	Certified	Category 3	3362 Admiral Way Stockton Ca.	San Joaquin	No	21	0	1/13/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855730	Certified	Category 3	231528	Sacramento	No	21	0	12/15/2018	Root intrusion
SS	Davis CS	555010921	856219	Certified	Category 3	1319 Whittier Drive	Yolo	No	20	0	2/17/2019	CS Maintenance Caused Spill/Damage
SS	Davis CS	555010921	856128	Certified	Category 3	632 Laurel Pl	Yolo	No	20	0	2/11/2019	CS Maintenance Caused Spill/Damage
SS	City Of Folsom CS	555010893	855906	Certified	Category 3	Sturbridge Drive	Sacramento	No	20	0	2/2/2019	Debris-Wipes/Non-Dispersables
SS	City of Stockton MUD CS	555011433	856213	Certified	Category 3	1019 S El Dorado St Stockton Ca	San Joaquin	No	20	0	1/31/2019	Debris-General
SF	Firebaugh CS	555011285	856716	Certified	Category 3	WHITE Apartments	Fresno	No	20	0	1/14/2019	Grease Deposition (FOG)
SF	City Of Bakersfield CS	555010717	855029	Certified	Category 3	1004 C St & Parkway	Kern	No	20	0	1/1/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855692	Certified	Category 3	231085	Sacramento	No	20	0	12/8/2018	Root intrusion
SS	San Andreas CS	555011048	854254	Certified	Category 3	Sanitary sewer clean-out F-400D	Calaveras	No	20	0	12/6/2018	Root intrusion
SS	City Of Folsom CS	555010893	853992	Certified	Category 3	Sundahl Drive	Sacramento	No	20	0	12/4/2018	Debris-Rags
SS	Sacramento Area Sewer District CS	555010912	856593	Certified	Category 3	234269	Sacramento	No	19	0	1/24/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855732	Certified	Category 3	231655	Sacramento	No	19	0	12/18/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855752	Certified	Category 3	231309	Sacramento	No	19	0	12/11/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856599	Certified	Category 3	234399	Sacramento	No	18	0	1/25/2019	Vandalism
SS	City of Stockton MUD CS	555011433	855274	Certified	Category 3	2123 Chaparral Way Stockton Ca	San Joaquin	No	18	0	1/10/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856558	Certified	Category 3	232798	Sacramento	No	18	0	1/7/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855688	Certified	Category 3	232334	Sacramento	No	18	0	12/31/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856566	Certified	Category 3	233225	Sacramento	No	17	0	1/11/2019	Root intrusion
SS	City of Stockton MUD CS	555011433	854907	Certified	Category 3	818 Yerba Buena Ave Stockton Ca	San Joaquin	No	17	0	12/20/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855708	Certified	Category 3	231189	Sacramento	No	17	0	12/10/2018	Debris-General
SS	City of Stockton MUD CS	555011433	854080	Certified	Category 3	1110 Summerway Dr Stockton Ca	San Joaquin	No	17	0	12/5/2018	Root Intrusion
SS	Davis CS	555010921	855759	Certified	Category 3	216 14th Street	Yolo	No	16	0	1/29/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856604	Certified	Category 3	234567	Sacramento	No	16	0	1/27/2019	Damage by others not related to CS Const/Maint.
SS	Sacramento Area Sewer District CS	555010912	855750	Certified	Category 3	231920	Sacramento	No	16	0	12/23/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855757	Certified	Category 3	231291	Sacramento	No	16	0	12/11/2018	Root intrusion
SS	Angels Camp CS	555010865	854503	Certified	Category 1	Mark Twain and Fairview	Calaveras	Yes	15	15	12/10/2018	Other (specify below)
SS	Davis CS	555010921	855655	Certified	Category 3	1402 Drake Dr Davis CA	Yolo	No	15	0	1/27/2019	Vandalism
SS	Hangtown Creek CS	555010965	855479	Certified	Category 3	872 Cottage	El Dorado	No	15	0	12/31/2018	Debris-General
SS	West Sacramento CS	555011082	855002	Certified	Category 3	950 Simon Terrace, West Sacramento	Yolo	No	15	0	12/29/2018	Grease Deposition (FOG)
SF	City Of Bakersfield CS	555010717	854682	Certified	Category 3	Manhole - 4008 Pontiac St	Kern	No	15	0	12/22/2018	Grease Deposition (FOG)
SS	Davis CS	555010921	854549	Certified	Category 3	815 Cherry Lane.	Yolo	No	15	0	12/14/2018	Root Intrusion
SS	City of Woodland CS	555010903	855790	Certified	Category 3	120 Kern Ave	Yolo	No	15	0	12/4/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855718	Certified	Category 3	231746	Sacramento	No	14	0	12/17/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855709	Certified	Category 3	231465	Sacramento	No	14	0	12/14/2018	Root intrusion
SS	City of Stockton MUD CS	555011433	855620	Certified	Category 3	1015 Katherine Stockton Ca	San Joaquin	No	13	0	1/26/2019	Root Intrusion
SS	City of Stockton MUD CS	555011433	854984	Certified	Category 3	1763 W Monterey Av Stockton Ca	San Joaquin	No	13	0	12/29/2018	Debris from Lateral
SS	City Of Jackson CS	555010895	854689	Certified	Category 3	Pitt st Bright ave	Amador	No	13	0	12/21/2018	Root Intrusion
SS	City of Stockton MUD CS	555011433	854307	Certified	Category 3	4656 Birmingham Wy Stockton Ca	San Joaquin	No	13	0	12/11/2018	Debris-General
SS	City of Stockton MUD CS	555011433	853955	Certified	Category 3	8205 Burgundy Dr Stockton Ca	San Joaquin	No	13	0	12/1/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856614	Certified	Category 3	234906	Sacramento	No	12	0	1/30/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856607	Certified	Category 3	234638	Sacramento	No	12	0	1/28/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856602	Certified	Category 3	234549	Sacramento	No	12	0	1/26/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855738	Certified	Category 3	231688	Sacramento	No	12	0	12/18/2018	Root intrusion
SS	City of Stockton MUD CS	555011433	855617	Certified	Category 3	8017 Albany Dr Stockton Ca	San Joaquin	No	11	0	1/26/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856587	Certified	Category 3	234025	Sacramento	No	11	0	1/21/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856559	Certified	Category 3	232840	Sacramento	No	11	0	1/8/2019	Root intrusion
SS	City of Stockton MUD CS	555011433	854965	Certified	Category 3	1708 E Eleventh St Stockton Ca	San Joaquin	No	11	0	12/23/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855703	Certified	Category 3	231586	Sacramento	No	11	0	12/17/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856041	Certified	Category 1	235421	Sacramento	Yes	10	10	2/9/2019	Other (specify below)
SR	Shasta Lake CS	555010851	856330	Certified	Category 3	Rod Hole J1B in front of 3587 Park St.	Shasta	No	10	0	2/21/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856609	Certified	Category 3	234684	Sacramento	No	10	0	1/26/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856588	Certified	Category 3	234070	Sacramento	No	10	0	1/22/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856595	Certified	Category 3	234280	Sacramento	No	10	0	1/21/2019	Operator error
SS	Sacramento Area Sewer District CS	555010912	856547	Certified	Category 3	232558	Sacramento	No	10	0	1/4/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856549	Certified	Category 3	232605	Sacramento	No	10	0	1/3/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855686	Certified	Category 3	232151	Sacramento	No	10	0	12/27/2018	Debris-General
SS	Dry Creek CS	555010935	855472	Certified	Category 3	100 Alta Vista	Placer	No	10	0	12/23/2018	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855744	Certified	Category 3	231878	Sacramento	No	10	0	12/21/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855726	Certified	Category 3	231615	Sacramento	No	10	0	12/17/2018	Root intrusion
SS	City of Woodland CS	555010903	855680	Certified	Category 3	1319 Betty Ave	Yolo	No	10	0	12/6/2018	Debris-Wipes/Non-Dispersables
SS	City of Stockton MUD CS	555011433	853953	Certified	Category 3	1727 N San Joaquin St Stockton Ca	San Joaquin	No	10	0	12/1/2018	Root Intrusion
SS	City of Stockton MUD CS	555011433	855625	Certified	Category 3	8435 Jasper Ct Stockton Ca	San Joaquin	No	9	0	1/26/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856584	Certified	Category 3	233965	Sacramento	No	9	0	1/19/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855739	Certified	Category 3	231959	Sacramento	No	9	0	12/24/2018	Debris-General

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REGION	Collection System	WQID	Spill ID	Spill Status	SPILL_TYPE	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Total Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Start Date	SPILL_CAUSE
SS	Sacramento Area Sewer District CS	555010912	855733	Certified	Category 3	231862	Sacramento	No	9	0	12/21/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855727	Certified	Category 3	231787	Sacramento	No	9	0	12/20/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855743	Certified	Category 3	231803	Sacramento	No	9	0	12/20/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855695	Certified	Category 3	231524	Sacramento	No	9	0	12/15/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855716	Certified	Category 3	231533	Sacramento	No	9	0	12/15/2018	Root intrusion
SS	City of Stockton MUD CS	555011433	853957	Certified	Category 3	2351 Fresno Av Stockton Ca	San Joaquin	No	9	0	12/2/2018	Debris-General
SS	City Of Antioch CS	555010890	855917	Certified	Category 3	1025 W 8th St Antioch CA	Contra Costa	No	8	0	2/1/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856611	Certified	Category 3	234759	Sacramento	No	8	0	1/29/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856601	Certified	Category 3	234516	Sacramento	No	8	0	1/25/2019	Root intrusion
SS	City of Stockton MUD CS	555011433	855535	Certified	Category 3	8004 Bernay Dr. Stockton Ca	San Joaquin	No	8	0	1/23/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856585	Certified	Category 3	233969	Sacramento	No	8	0	1/19/2019	Root intrusion
SS	City of Stockton MUD CS	555011433	855272	Certified	Category 3	8518 San Fernando Ct Stockton Ca.	San Joaquin	No	8	0	1/10/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856561	Certified	Category 3	232883	Sacramento	No	8	0	1/8/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855722	Certified	Category 3	231671	Sacramento	No	8	0	12/18/2018	Root intrusion
SS	City of Stockton MUD CS	555011433	854461	Certified	Category 3	2205 Catamaran Dr. Stockton Ca.	San Joaquin	No	8	0	12/17/2018	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855724	Certified	Category 3	231256	Sacramento	No	8	0	12/11/2018	Root intrusion
SS	City Of Antioch CS	555010890	853867	Certified	Category 3	1605 Noia Ave Antioch CA	Contra Costa	No	8	0	12/1/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856597	Certified	Category 3	234298	Sacramento	No	7	0	1/24/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856591	Certified	Category 3	234178	Sacramento	No	7	0	1/23/2019	Root intrusion
SS	City of Stockton MUD CS	555011433	855298	Certified	Category 3	1015 Katherine Way Stockton Ca	San Joaquin	No	7	0	1/12/2019	Root Intrusion
SS	City of Sacramento Utilities CS	555010901	854745	Certified	Category 3	1370 Grant Lane, Sacramento, CA 95822	Sacramento	No	7	0	12/26/2018	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855725	Certified	Category 3	231264	Sacramento	No	7	0	12/11/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856606	Certified	Category 3	234593	Sacramento	No	6	0	1/28/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856603	Certified	Category 3	234556	Sacramento	No	6	0	1/26/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856596	Certified	Category 3	234281	Sacramento	No	6	0	1/24/2019	Vandalism
SS	Sacramento Area Sewer District CS	555010912	856576	Certified	Category 3	233436	Sacramento	No	6	0	1/14/2019	Debris-General
SS	City Of Antioch CS	555010890	855140	Certified	Category 3	1805 Harding Ct Antioch	Contra Costa	No	6	0	1/7/2019	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	856555	Certified	Category 3	232718	Sacramento	No	6	0	1/7/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856552	Certified	Category 3	232642	Sacramento	No	6	0	1/4/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855706	Certified	Category 3	232274	Sacramento	No	6	0	12/29/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855728	Certified	Category 3	232272	Sacramento	No	6	0	12/29/2018	Root intrusion
SS	City Of Antioch CS	555010890	855014	Certified	Category 3	1908 kettle Rock ct Antioch CA	Contra Costa	No	6	0	12/28/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855749	Certified	Category 3	231749	Sacramento	No	6	0	12/19/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855698	Certified	Category 3	231389	Sacramento	No	6	0	12/13/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855701	Certified	Category 3	231024	Sacramento	No	6	0	12/7/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855712	Certified	Category 3	230930	Sacramento	No	6	0	12/5/2018	Damage by others not related to CS Const/Maint.
SS	Sacramento Area Sewer District CS	555010912	855711	Certified	Category 3	230804	Sacramento	No	6	0	12/4/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855745	Certified	Category 3	230756	Sacramento	No	6	0	12/2/2018	Root intrusion
SS	South Placer Mud CS	555011054	856242	Certified	Category 3	3783 Antelope Way Rocklin	Placer	No	5	0	1/28/2019	Debris from Lateral
SS	Waterford CS	555011080	855806	Certified	Category 3	312 G street Waterford Ca 93586	Stanislaus	No	5	0	1/24/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	856583	Certified	Category 3	233924	Sacramento	No	5	0	1/18/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856575	Certified	Category 3	233334	Sacramento	No	5	0	1/14/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856577	Certified	Category 3	233457	Sacramento	No	5	0	1/14/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856574	Certified	Category 3	233322	Sacramento	No	5	0	1/13/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856571	Certified	Category 3	233306	Sacramento	No	5	0	1/12/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856572	Certified	Category 3	233309	Sacramento	No	5	0	1/12/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856544	Certified	Category 3	232380	Sacramento	No	5	0	1/2/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856545	Certified	Category 3	232423	Sacramento	No	5	0	1/2/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856541	Certified	Category 3	232351	Sacramento	No	5	0	1/1/2019	Grease deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855734	Certified	Category 3	232315	Sacramento	No	5	0	12/31/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855729	Certified	Category 3	232293	Sacramento	No	5	0	12/30/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855758	Certified	Category 3	232003	Sacramento	No	5	0	12/26/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855719	Certified	Category 3	231923	Sacramento	No	5	0	12/23/2018	Root intrusion
SS	City of Stockton MUD CS	555011433	854556	Certified	Category 3	2518 Parrish Ct Stockton Ca	San Joaquin	No	5	0	12/19/2018	Root Intrusion
SS	Deer Creek CS	555010923	854992	Certified	Category 3	DC-2018-12-08	El Dorado	No	5	0	12/12/2018	Pipe Structural Problem/Failure
SS	West Sacramento CS	555011082	854971	Certified	Category 3	1341 Somerset Drive	Yolo	No	5	0	12/12/2018	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855689	Certified	Category 3	231188	Sacramento	No	5	0	12/10/2018	Damage by others not related to CS Const/Maint.
SS	Sacramento Area Sewer District CS	555010912	855735	Certified	Category 3	231178	Sacramento	No	5	0	12/10/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855707	Certified	Category 3	230983	Sacramento	No	5	0	12/6/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855740	Certified	Category 3	230855	Sacramento	No	5	0	12/4/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855723	Certified	Category 3	230705	Sacramento	No	5	0	12/3/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856586	Certified	Category 3	233989	Sacramento	No	4	0	1/20/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856573	Certified	Category 3	233311	Sacramento	No	4	0	1/12/2019	Vandalism
SS	Sacramento Area Sewer District CS	555010912	856567	Certified	Category 3	233235	Sacramento	No	4	0	1/11/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856568	Certified	Category 3	233263	Sacramento	No	4	0	1/11/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856563	Certified	Category 3	232921	Sacramento	No	4	0	1/9/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856542	Certified	Category 3	232356	Sacramento	No	4	0	1/1/2019	Pipe Structural Problem/Failure
SS	City of Stockton MUD CS	555011433	855068	Certified	Category 3	3051 Wagner Heights Stockton Ca.	San Joaquin	No	4	0	12/31/2018	Root Intrusion
SS	Sacramento Area Sewer District CS	555010912	855751	Certified	Category 3	231962	Sacramento	No	4	0	12/24/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855704	Certified	Category 3	231876	Sacramento	No	4	0	12/21/2018	Root intrusion
SS	City of Stockton MUD CS	555011433	854560	Certified	Category 3	9331 Branstetter Pl Stockton Ca.	San Joaquin	No	4	0	12/19/2018	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855731	Certified	Category 3	231590	Sacramento	No	4	0	12/17/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855748	Certified	Category 3	231546	Sacramento	No	4	0	12/16/2018	Root intrusion

ATTACHMENT A - Sanitary Sewer Overflow (SSO) Spills - 1 December 2018 and 28 February 2019

REGION	Collection System	WQID	Spill ID	Spill Status	SPILL_TYPE	Spill Location	COUNTY	Did Spill Reach Surface Waters? (Yes/No)	Total Spill Volume (Gallons)	Volume that Reached Surface Waters (Gallons)	Start Date	SPILL_CAUSE
SS	Sacramento Area Sewer District CS	555010912	855721	Certified	Category 3	231489	Sacramento	No	4	0	12/14/2018	Debris-General
SS	Sacramento Area Sewer District CS	555010912	855756	Certified	Category 3	230953	Sacramento	No	4	0	12/6/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856613	Certified	Category 3	234884	Sacramento	No	3	0	1/30/2019	Debris-General
SR	Redding City CS	555010801	855228	Certified	Category 3	Manhole J4-14, near 720 Pioneer Ct	Shasta	No	3	0	1/10/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856569	Certified	Category 3	233286	Sacramento	No	3	0	1/10/2019	Root intrusion
SS	City Of Ione CS	555010894	855059	Certified	Category 3	City of Ione	Amador	No	3	0	1/4/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856543	Certified	Category 3	232358	Sacramento	No	3	0	1/1/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855705	Certified	Category 3	232093	Sacramento	No	3	0	12/26/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856694	Certified	Category 3	231404	Sacramento	No	3	0	12/13/2018	Root intrusion
SS	City of Woodland CS	555010903	855482	Certified	Category 3	1423 Auburn Dr.	Yolo	No	3	0	12/13/2018	Root intrusion
SS	City Of Antioch CS	555010890	856270	Certified	Category 3	602 Putnam St Antioch Ca	Contra Costa	No	2	0	2/15/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856598	Certified	Category 3	234312	Sacramento	No	2	0	1/25/2019	Root intrusion
SF	City of Fresno CS	555011202	856425	Certified	Category 3	2828 N Wishon Ave	Fresno	No	2	0	1/24/2019	Debris-Wipes/Non-Dispersables
SS	City of Stockton MUD CS	555011433	855599	Certified	Category 3	103 E. Mendocino Ave Stockton Ca	San Joaquin	No	2	0	1/24/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856592	Certified	Category 3	234179	Sacramento	No	2	0	1/23/2019	Debris-General
SS	Dry Creek CS	555010935	855986	Certified	Category 3	1018 Melrose Ave.	Placer	No	2	0	1/20/2019	Pipe Structural Problem/Failure
SS	Sacramento Area Sewer District CS	555010912	856578	Certified	Category 3	233669	Sacramento	No	2	0	1/16/2019	Debris-General
SS	Sacramento Area Sewer District CS	555010912	856579	Certified	Category 3	233676	Sacramento	No	2	0	1/16/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856589	Certified	Category 3	234103	Sacramento	No	2	0	1/16/2019	Operator error
SS	Sacramento Area Sewer District CS	555010912	856562	Certified	Category 3	232905	Sacramento	No	2	0	1/9/2019	Root intrusion
SS	South Placer Mud CS	555011054	856220	Certified	Category 3	6262 Lonetree Bl Rocklin	Placer	No	2	0	1/5/2019	Debris from Lateral
SS	Sacramento Area Sewer District CS	555010912	856548	Certified	Category 3	232568	Sacramento	No	2	0	1/4/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856551	Certified	Category 3	232633	Sacramento	No	2	0	1/4/2019	Operator error
SS	Sacramento Area Sewer District CS	555010912	855700	Certified	Category 3	232345	Sacramento	No	2	0	12/31/2018	Root intrusion
SS	Easterly CS	555010938	855003	Certified	Category 3	307 Nile Ct.	Solano	No	2	0	12/30/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855710	Certified	Category 3	231953	Sacramento	No	2	0	12/24/2018	Root intrusion
SS	City Of Antioch CS	555010890	854508	Certified	Category 3	1500 Sandy Ct Antioch CA 94509	Contra Costa	No	2	0	12/18/2018	Root intrusion
SS	South Placer Mud CS	555011054	853954	Certified	Category 3	2183 Arnold Dr, Rocklin	Placer	No	2	0	12/1/2018	Root intrusion
SS	City Of Folsom CS	555010893	856243	Certified	Category 3	9864 Mosswood Circle	Sacramento	No	1	0	2/15/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856608	Certified	Category 3	234641	Sacramento	No	1	0	1/28/2019	Operator error
SS	Sacramento Area Sewer District CS	555010912	856594	Certified	Category 3	234276	Sacramento	No	1	0	1/24/2019	Operator error
SS	Dry Creek CS	555010935	855930	Certified	Category 3	240 Duranta St.	Placer	No	1	0	1/12/2019	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	856564	Certified	Category 3	232939	Sacramento	No	1	0	1/9/2019	Operator error
SS	Sacramento Area Sewer District CS	555010912	856565	Certified	Category 3	232995	Sacramento	No	1	0	1/9/2019	Operator error
SS	Sacramento Area Sewer District CS	555010912	856557	Certified	Category 3	232770	Sacramento	No	1	0	1/7/2019	Damage by others not related to CS Const/Maint.
SS	West Sacramento CS	555011082	855180	Certified	Category 3	968 Anna St. West Sacramento	Yolo	No	1	0	1/5/2019	Grease Deposition (FOG)
SS	Sacramento Area Sewer District CS	555010912	855754	Certified	Category 3	231789	Sacramento	No	1	0	12/20/2018	Operator error
SS	South Placer Mud CS	555011054	855763	Certified	Category 3	5803 Ford Rd, Rocklin, ca 95677	Placer	No	1	0	12/20/2018	Debris-Rags
SS	Sacramento Area Sewer District CS	555010912	855690	Certified	Category 3	231403	Sacramento	No	1	0	12/13/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855742	Certified	Category 3	231449	Sacramento	No	1	0	12/13/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855737	Certified	Category 3	231358	Sacramento	No	1	0	12/12/2018	Root intrusion
SS	Sacramento Area Sewer District CS	555010912	855720	Certified	Category 3	231159	Sacramento	No	1	0	12/10/2018	Root intrusion