

California Regional Water Quality Control Board

San Diego Region

David Gibson, Executive Officer



Executive Officer's Report

May 8, 2019

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The May report for the Tentative Schedule of Significant NPDES Permits, WDRs, and Actions; Agenda Items Requested by Board Members; and the attachments noted above are included at the end of this report.

Part A – San Diego Region Staff Activities

1. Personnel Report

Staff Contact: Jeremy Haas

The organizational chart of the San Diego Water Board can be viewed at:
https://www.waterboards.ca.gov/sandiego/about_us/org_charts/orgchart.pdf

Recent Hires

Jason DuMond began working on March 18, 2019, as an Environmental Scientist in the Site Restoration and Agricultural Program Unit. Mr. DuMond received a Bachelor of Science degree in Environmental Science from the University of Albany and Master of Arts degree in Marine Conservation from Stony Brook University. Mr. DuMond is working to protect our Region's water quality from agricultural discharges by joining the effort to implement the Commercial Agriculture Order.

Tanya Nelson began working on March 25, 2019, as an Engineering Geologist in the Site Restoration, Military Facilities Unit. She received a Bachelor of Arts degree in Geology from Bryn Mawr College. Ms. Nelson is working to protect our Region's water quality from pollutant discharges to groundwater and soils at Department of Defense sites in the San Diego Region.

Emma Blankenship, Student Assistant in the Restoration and Protection Planning Unit, began working on April 16, 2019. She is an Environmental Engineering student at San Diego State University. Ms. Blankenship will be working to support TMDL development in the Tijuana River Valley. Previously, she was a volunteer with the San Diego Water Board, and most recently she was a student assistant for the State Water Board Division of Drinking Water.

Kelly Fuller, Office Technician in the Mission Support Services Unit, began working on May 1, 2019. Her duties include reception, office support, and mail and records management. Ms. Fuller is transferring from the California Department of Corrections and Rehabilitation, where she has experience as an Office Technician and Accountant Specialist.

Leah Lorch, Office Technician in the Mission Support Services Unit, began working on May 6, 2019. Her duties include reception, office support, and mail and records management. Ms. Lorch is transferring from the California Unemployment Insurance Appeals Board, where she worked as an Office Technician in the records control section.

Recruitment

Interviews have been conducted to fill the following positions: (1) Staff Services Manager I position (Administrative Officer) in the Mission Support Services Unit; (2) Environmental Scientist in the Monitoring, Assessment, and Research Unit; (3) Student Assistants for the Source Control Regulation and Storm Water Management Units.

Benjamin Carlson will start working on May 14, 2019 as a Graduate Student Assistant in the Monitoring, Assessment, and Research Unit. Mr. Carlson is working on a graduate degree in Public Health from San Diego State University.

2. San Diego Water Board Staff Attend 29th Annual AEHS Conference

Staff Contact: Sarah Mearon

In March, several staff from the San Diego Water Board attended the 29th annual [International Conference on Soil, Water, Energy, and Air](#) put on by the Association for Environmental Health and Sciences (AEHS) in San Diego, California. The conference featured 200 presenters, 20 sessions, seven technical workshops, and almost 50 exhibitors.

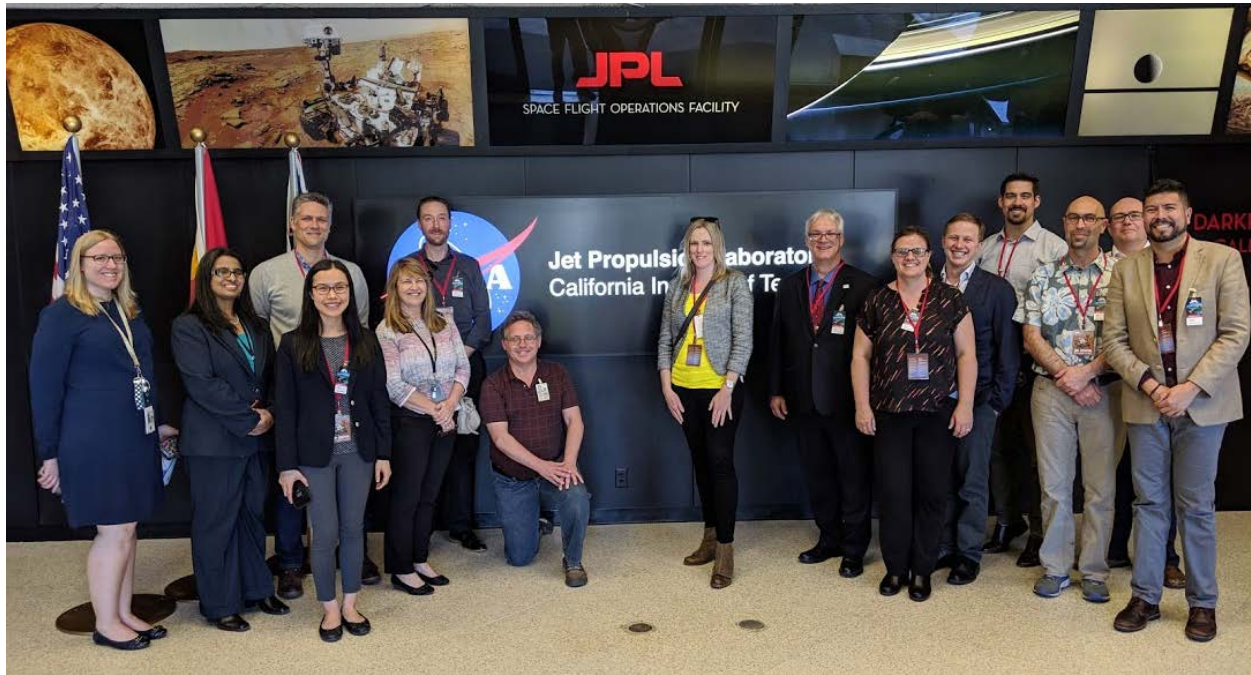
Board staff attended workshops providing information on environmental forensics, guidance for characterization and remediation of sites underlain by fractured bedrock, and per- and poly-fluoroalkyl substances (PFAS). The State Water Resources Control Board issued 13267 investigative orders in March 2019 for assessing PFAS, an emerging contaminant, to select airports and landfills in our region. PFAS is a class of organic anthropogenic chemicals that have been used in many consumer products including waterproofing materials, carpets, clothing, packaging, fire retardants, and cookware. Additional PFAS orders will be issued to additional potential responsible parties later in 2019. Accordingly, PFAS was one of the emerging topics of note at the 2019 AEHS conference, both for regulators and other environmental professionals. Board staff also attended sessions presenting recent developments in vapor intrusion, sustainable and innovative remediation, directional drilling, risk assessment, as well as updates on regulatory programs and policies. Sessions were well-attended by regulators, environmental consultants, and members of the regulated community.

Sarah Mearon, an Engineering Geologist in the San Diego Water Board's Site Restoration Unit, gave a presentation in the Vapor Intrusion session called, "*All of These Things are Not Like the Others: Chlorinated Solvent Vapor Intrusion Site Variability in the San Diego Region.*" The talk provided an assessment of small chlorinated solvent cases managed within the Site Cleanup Program that have indoor air concerns. Through the use of summary maps and several case studies, the talk demonstrated the lack of predictability in assessing human health risk from vapor intrusion associated with contaminated soil, groundwater, and soil vapor at sites that are superficially similar on several different levels. Combined with inherent administrative and technical complexities, the chlorinated solvent site cases require a measured, site-specific approach that relies on State guidance, adequate site characterization, multiple lines of evidence, and development of a robust conceptual site model.

3. San Diego Water Board Meets with Western Water Applications Office Staff at NASA's Jet Propulsion Laboratory to Discuss Remote Sensing Applications

Staff Contact: Sarah Mearon

On April 10, 2019, San Diego Water Board Executive Officer David Gibson and Engineering Geologist Sarah Mearon, along with State Water Board staff and State Water Board Chair Joaquin Esquivel, met with Western Water Applications Office staff at NASA's Jet Propulsion Laboratory in Pasadena to discuss collaboration opportunities. The mission of NASA's [Western Water Applications Office](#) (WWAO) is to "help solve important and pressing water resource problems that the western United States faces today." WWAO does this by providing water decision-makers with remote sensing-based information.



Meeting attendees in front of Mission Control at Jet Propulsion Laboratory in Pasadena.

The meeting began with an introduction on the role of WWAO by the WWAO manager, Indrani Graczyk, and was followed by a presentation by NASA Goddard Center post-doc Jessica Erlingis-Lamers, who has been using satellite data to produce models for use in water resources applications using almost 40 years of NASA data for the Western Land Data Assimilation System. State Water Board staff gave an overview of the Water Boards structure and mission, and State and Regional Board staff gave “flash talks” on several Water Board programs where NASA’s remote sensing data could be of great use, including water rights violations, illegal cannabis grow identification, and storm water permit compliance. Each topic prompted vivid and informative discussions on how NASA data could be used to help the Water Boards improve their enforcement and monitoring capabilities. The meeting concluded with a VIP tour of select JPL facilities, including the spacecraft assembly facility, where several satellites, as well as the new Mars Rover (launch date 2020), were under construction.

Both JPL and the Water Boards committed to continuing the discussion and collaboration efforts as water resources management becomes increasingly important in a time of limited natural resources and climate change.

Part B – Significant Regional Water Quality Issues

1. Status Update – Groundwater Cleanup and Indoor Vapor Sampling, Former AMETEK/Ketema Facility

Staff Contact: Sean McClain

While California Department of Toxic Substances Control (DTSC) became the lead regulatory agency for the cleanup at the Former AMETEK/Ketema Facility (Facility) in February 2017, San Diego Water Board staff continue to work closely with DTSC to evaluate the performance of the groundwater remediation and extraction system at the Facility.

AMETEK is currently preparing to implement Phase 5 of the in-situ chemical oxidation groundwater remediation system (ISCO system) at the Facility. The remediation project consists of injecting a potassium permanganate solution into 27 injection wells at the facility to reduce the chemicals of concern beneath the facility and in the downgradient areas. The 2018 Fourth Quarter Groundwater Monitoring Report shows significant concentration reductions in the 27 injection wells at the site. However, downgradient observation wells have shown less reductions compared to baseline concentrations. Therefore, AMETEK recently installed six additional offsite wells to further monitor the remediation system's performance in reducing concentrations downgradient of the facility and to further evaluate the groundwater beneath the mobile home parks. The Phase 5 ISCO injections are scheduled for June 2019.

In addition to the ISCO system, AMETEK continues to operate an off-site groundwater extraction and ultraviolet-oxidation treatment system for the discharge water. The off-site system started operation in January 2014 and has extracted and treated approximately 27 million gallons of groundwater.

In addition to the groundwater remediation work that is occurring at the Facility, AMETEK continues to work with DTSC to assess off-site vapor intrusion at the Starlight, Greenfield, and Villa Cajon Mobile Home Parks. Indoor air and crawl space samples were collected at 166 mobile homes from April 2017 to April 2019. Vapor samples collected in the crawl space at 27 of the 166 homes showed trichlorethylene (TCE) above the DTSC indoor air screening level (IASL) of 0.48 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). DTSC approved AMETEK's mitigation measures for passive and active venting to remove TCE concentrations within the crawl space beneath these mobile homes. Passive venting was completed at 13 mobile homes through skirting modifications to improve air flow, 2 mobile homes are pending approval, and 9 mobile homes declined this treatment. Active venting was completed at 3 mobile homes by installing a fan connected to a PVC pipe equipped with slots placed in the crawl space to improve air flow beneath the mobile homes. DTSC also approved the use of an air purifying system inside one mobile home. The remaining mitigation measures are proposed to be completed by third quarter 2019. Quarterly vapor sampling will evaluate the effectiveness of the mitigation measures at reducing TCE concentrations beneath the mobile homes.

DTSC approved AMETEK's proposed Soil Vapor Extraction System (SVE) pilot test to evaluate SVE as a technology for remediation of soil vapors near the mobile home parks in areas with known high soil vapor concentrations. The SVE pilot test will be completed by the 3rd quarter 2019.

In addition to the sampling at the mobile home parks, quarterly vapor sampling at Magnolia Elementary School continues to show that the school is safe for occupancy.

Water Board staff will keep the Board apprised of any new developments in this case.

2. Las Pulgas Landfill Update

Staff Contact: Amy Grove

United States Marine Corps (USMC) notified the San Diego Water Board of a potential liner system failure within the Phase I expansion area of the USMC Base Camp Pendleton, Las Pulgas Landfill (Landfill) in January 2017. Staff visited the Landfill in early February 2017 to confirm site conditions. During the Landfill visit, San Diego Water Board staff observed bulging and slumping of the clay layer component of the side slope liner system. Additionally, staff observed

several potential areas of failure, which were likely due to groundwater seeps in the underlying native slope materials interacting with the clay layer component of the liner system. The USMC completed a field investigation in the fall of 2017. The purpose of the field investigation was to determine the nature and extent of the side slope liner system damage and develop proposed mitigation measures to bring the Landfill back into compliance with federal and State regulations, and waste discharge requirements adopted by the San Diego Water Board for the Landfill.

Staff met with USMC staff and their consultant, in February 2018, to review the results of the field investigation and discuss potential corrective actions for the Landfill. Findings from the field investigation suggest that a series of large storm events created unanticipated groundwater conditions, resulting in groundwater seeps on the side slopes beneath the Landfill liner system. These seeps overwhelmed the subdrain system installed beneath the Landfill, resulting in the saturation and subsequent failure of the clay component of the liner system. USMC staff expressed a desire to continue their investigation into the cause(s) of the slope failure before proposing corrective actions for the repair of the damaged liner component.

In the fall of 2018, USMC staff completed a second field investigation to determine the cause and extent of damage to the clay component of the liner system. This investigation indicated that the potential areas of failure or damage to the clay component of the liner system had expanded from seven to 19 locations. The second investigation also confirmed the findings of the original field investigation, allowing USMC staff to move forward in developing a corrective action plan for the repair of the damaged liner components. USMC staff anticipate the submittal of the Corrective Action Plan will occur in summer of 2019.

For the past seven months, San Diego Water Board staff have met with USMC staff, their consulting team, and the San Diego County Department of Environmental Health, Local Enforcement Agency to discuss the status of the field investigations, potential corrective actions, and other activities or issues related to the Landfill. These meetings will continue until the repairs to the Landfill liner system are complete.

3. Statewide General Composting Order – Facility Enrollment Status

Staff Contacts: Roger Mitchell and Amy Grove

The San Diego Water Board has regulated discharges of waste to land associated with composting operations since 2014 when Conditional Waiver No. 5, *Discharges of Waste to Land at Composting Facilities* (Composting Facilities Waiver), was adopted as part of Order No. R9-2014-0041, *Conditional Waivers of Waste Discharge Requirements for Low Threat Discharges in the San Diego Region* (Order). The adoption of the Composting Facilities Waiver was intended to be an interim regulatory mechanism, while the State Water Resources Control Board (State Board) continued its efforts to develop and adopt general waste discharge requirements for composting facilities.

In 2015, the State Board adopted Order No. WQ-2015-0121-DWQ, *General Waste Discharge Requirements for Composting Operations* (Compost General Order), which established a streamlined regulatory process and standard criteria for composting facilities statewide, regardless of the location or size of the facility. An agreement was reached between the San Diego Water Board and State Board that allowed the composting facilities already enrolled in Composting Facilities Waiver to continue operating under those requirements until the Composting Facilities Waiver expires in June 2019.

Staff are working with compost facility dischargers to facilitate their enrollment in the Compost General Order. As part of this effort, Staff issued letters in January 2019, notifying dischargers currently enrolled in the waiver that all composting facilities must be enrolled in the Compost General Order prior to the expiration of the Compost Facilities Waiver. In addition, dischargers were directed to submit application packages for enrollment in the Compost General Order on or before March 11, 2019. To date, the San Diego Water Board has received responses from 11 of the 21 facilities contacted. Four of the eleven facilities that provided a response were exempt from enrollment into the Compost General Order because their facility is limited to chipping and grinding of green materials, an activity not regulated by the Compost General Order. The remaining seven applications for enrollment are currently under review. Staff will continue to work with the remaining 10 facilities to ensure enrollment in the Compost General Order.

4. Biological Objectives Plan Review Progress Report

Staff Contact: Chad Loflen

2018 TRIENNIAL REVIEW PROJECT NO. 2

A. PROJECT INFORMATION

Biological Objectives for Waterbodies in the San Diego Region

Report Date: May 2019

Project Lead: [Chad Loflen](#)

Report Period: Jan-May 2019

Supervisor: Jeremy Haas

Overall Status: On track

Website: https://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/bio_objectives/

Lyris List for Updates:

http://www.waterboards.ca.gov/resources/email_subscriptions/reg9_subscribe.shtml

Project Description:

The purpose of this project is to develop biological water quality objectives for the attainment of beneficial uses of inland surface waters. This project was initiated with the 2014 Basin Plan review and reaffirmed in the 2018 Basin Plan review as high priority.

Project Objective(s):

1. To promote biological integrity of all surface waters.
2. To preserve high quality streams.
3. To use biological integrity to assess the condition of surface waters where the science is already developed and to add types of waters as science is developed.
4. To better protect and restore altered streams from predictable hydrologic or physical stressors.
5. To prevent further biological degradation of streams that have suffered from large scale hydrologic and physical stressors.

Triennial Review Commitments:

2014 Basin Plan review:

1. Incorporate a narrative biological objective for water bodies in the San Diego Region.
2. Establish numerical measures by which to interpret the narrative objective.

2018 Basin Plan review:

1. Complete the 2014 priority project to develop biological objectives for perennial streams.
2. Evaluate the latest science and develop appropriate metrics to measure the integrity of highly intermittent and ephemeral streams

Key Milestones	Action	Target Date	Notes
	Public informational meeting and CEQA Scoping	July 2016	Completed
	Administrative Draft Released for Public Comment	January 2018	Completed
	Public Workshop on Administrative Draft	February 2018	Completed
	Submission of Draft documents to Peer Review	February 2019	Completed
	Release of Draft Biological Objectives and Substitute Environmental Document for Public Comment	February 28, 2019	Includes revisions to Administrative Draft (see next section)
	Public Workshop on Draft	April 18, 2019	Completed
	Receipt of Peer Review comments	April 2019	Completed
	Public Comments Due	June 1, 2019	Concludes 93-day public comment period
	Board Hearing	Fall 2019	

B. PROGRESS REPORT: Biological Water Quality Objectives

Reporting Period Events	
Accomplishments during period	<ul style="list-style-type: none"> Extended a 63-day Public Review of Draft Biological Objectives by 30 more days in response to comments from Municipal Storm Water Copermittees. Completed Peer Review Held a Public Workshop on Biological Objectives. Approximately 35 members of the public attended, representing the interests of public agencies, non-governmental organizations, tribes, and industry. Began Off-Cycle Integrated Report process for identifying additional Category 1 and 2 waters using biological assessment
Collaboration during period	<ul style="list-style-type: none"> Project leads were in regular communication with State Water Board staff working on a statewide Implementation Plan for Assessing Biological Integrity in Surface Waters. Project leads attended the State Water Board's Science Panel and Stakeholder Group meetings for the statewide Biostimulatory Substances Objective and Program to Implement Biological Integrity Project leads were in regular communication with State Water Board staff on inclusion of biological data in the upcoming California 303(d)/305(b) Integrated Report
Activities planned but not completed	We had anticipated completing the public comment period on the draft Biological Objectives. However, in response to requests from the Municipal Storm Water Copermittees at the April 17 workshop, we extended the public comment deadline by 30 days.
Key issues during period	<p>Since release of the administrative draft in 2018, staff made several notable changes to the draft released for peer and public review in 2019. These include:</p> <ul style="list-style-type: none"> Replacing the proposed narrative objective for all water bodies in Basin Plan Chapter 3, with guidance in Chapter 4 for developing subsequent biological objectives for additional water body types. Simplifying the proposed numeric criteria for streams to a single threshold based on the 10th percentile California Stream Condition Index (CSCI) score and eliminating the use of lines of evidence to evaluate conditions between the 10th and 1st percentile CSCI scores.
Looking Forward	
Activities planned for next period	<ul style="list-style-type: none"> Review and draft responses to Peer Review comments Review and draft responses to public comments Continue to coordinate with State Water Board Conduct regular bioassessment sampling In response to questions at the public workshop, staff have scheduled meetings for mid-May with Municipal Storm Water Copermittees.
Key issues on the horizon	None

5. Basin Plan Triennial Review 1st Quarter Progress Reports

Staff Contacts: Jody Ebsen, Melissa Corona, Michelle Santillan

Periodic review of the Water Quality Control Plan for the San Diego Basin (Basin Plan) is required by State and federal law. California Water Code section 13240 states that Basin Plans "...shall be periodically reviewed and may be revised." Federal Clean Water Act section 303(c)(1) states that the Water Boards "...shall from time to time (but at least once each three year period...) hold public hearings for the purpose of reviewing applicable water quality standards and, as appropriate, modifying and adopting standards." Because federal law requires that water quality standards be reviewed every three years, the periodic review of the Basin Plan is commonly referred to as the "triennial review."

The San Diego Water Board concluded its most recent Basin Plan Triennial Review in October 2018. The purpose of the review was to identify needed updates and revisions to water quality standards and other elements of the Basin Plan. The product of the review is a priority list of suggested projects, which may result in Basin Plan revisions, and that serve as the basis of a three-year work plan. The priority list was endorsed via [Resolution No. R9-2018-0123](#). The highest priority Basin Plan review projects include:

1. Tijuana River Valley Water Quality Restoration
2. Biological Objectives for Water Bodies in the San Diego Region
3. Contact Water Recreation (REC-1) Water Quality Objectives
4. Climate Change Readiness: Sustainable Local Water Supply
5. Clean Water Act section 304(a) Criteria Recommendations
6. Editorial Revisions, Minor Clarifications or Corrections

Work will occur on these projects over the next three years. Progress reports will be provided quarterly in Executive Officer Reports as projects commence. Progress reports for Projects No. 1 and 3 are included below. A progress report for Project No. 2 (Biological Objectives) is included separately in this month's Executive Officer Report.

More information on the Basin Plan review process and results is available at:

http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/tri_review.shtml.

I. 2018 TRIENNIAL REVIEW PROJECT NO. 1

A. PROJECT INFORMATION

Tijuana River Valley Water Quality Restoration TMDLs

Report Date: May 2019

Project Lead: [Melissa Corona](#)

Report Period: Jan-Apr 2019

Supervisor: Cynthia Gorham

Overall Status: On track

Website:

http://www.waterboards.ca.gov/sandiego/water_issues/programs/tmdls/tijuanarivervalley.html

Project Description:

The purpose of this project is to develop Total Maximum Daily Loads (TMDLs) for indicator bacteria and trash in the Tijuana River because the San Diego Water Board has identified human health and ecosystem impacts in the Tijuana River Valley as regional priorities for many years. The TMDL development process includes timely communication with the Tijuana River Valley Recovery Team, selecting numeric targets, identifying pollutant load reductions, and evaluating potential management actions.

Although the Tijuana River is on the 2014-2016 Clean Water Act Section 303(d) List of Water Quality Limited Segments for impairments due to a total of 20 pollutants, control of the anthropogenic sources of indicator bacteria and trash is likely to result in a significant reduction of the remaining pollutants.

Project Objective(s):

The objective is to reduce pollutant loads entering the Tijuana River in order to restore and maintain the chemical, physical, and biological integrity of the Tijuana River as well as the downstream Tijuana River Estuary and coastal waters.

Triennial Review Commitments:

Development of TMDLs for bacteria indicators and trash with implementation plans to restore impaired waters in the Tijuana River Valley

Key Milestones	Target Date	Notes
California Environmental Quality Act (CEQA) scoping meeting	May 15, 2019	
Peer review of draft TMDL staff report	Summer 2020	
Public review of draft TMDL staff report	Winter 2020/21	
Basin Plan amendment package to San Diego Water Board for adoption	August 2021	

B. PROGRESS REPORT: Tijuana River Valley TMDLs

Reporting Period Events	
Accomplishments during period	Distributed CEQA scoping meeting materials, including initial CEQA checklist
Collaboration during period	<ul style="list-style-type: none"> Coordinated with U.S. Environmental Protection Agency staff regarding options for TMDL approach involving border issues Staff briefed the Tijuana River Valley Recovery Team
Activities planned but not completed	Finalization of data gathering
Key issues during period	Staff time was split across several other activities involving the Tijuana River Valley
Looking Forward	
Activities planned for next period	<ul style="list-style-type: none"> CEQA scoping meeting on May 15 Finalization of data gathering Identification of data gaps Data analyses Continued preparation of TMDL staff report
Key issues on the horizon	This project could be affected by a number of efforts involving the Tijuana River Valley, including the Board's direction in a lawsuit against USIBWC, action on a tentative Investigative Order to USIBWC for monitoring water and sediment, efforts regarding Minute 320, and efforts resulting from the Tijuana River Valley Recovery Team.

*II. 2018 TRIENNIAL REVIEW PROJECT NO. 3**A. PROJECT INFORMATION***Contact Water Recreation (REC-1) Water Quality Objectives***Report Date: May 2019**Project Lead: [Michelle Santillan](#)**Report Period: Jan-Apr 2019***Supervisor:** Cynthia Gorham*Overall Status: On track***Website:**http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/issue3.shtml

Project Description:

The purpose of this project is to implement and track progress of recommendations outlined in the [2014 Triennial Review Project Summary Report \(2018\)](#). The goal is to focus on short-term actions that can be completed within the next three years.

Project Objective(s):

1. To protect REC-1 beneficial uses;
2. To adopt new and/or updated regulations based upon the latest technical findings and scientific understanding;
3. To facilitate effective use of resources by regulated parties; and
4. To ensure judicious use of San Diego Water Board resources.

Triennial Review Commitments:

Staff committed to focus on short-term actions that can be completed within the next three years that were identified in the 2018 recommendations report for the 2014 Triennial Review REC-1 project. These actions may include:

1. Updating the municipal separate storm sewer systems (MS4) permit;
2. Updating waste discharge requirements for sanitary sewer systems;
3. Issuing an Investigative Order for the San Diego River Watershed; and
4. Updating Chapter 3 of the Basin Plan to reflect the latest statewide water quality standards for bacteria in the Water Quality Control Plans for Inland Surface Waters, Enclosed Bays and Estuaries of California, and for Ocean Waters of California.

Key Milestones	Target Date	Notes
Draft Basin Plan Amendment for Public Review	May 2019	
Executive Officer Summary Report	May and Nov 2019	
Public Hearing for San Diego River Watershed Investigative Order	June 2019	
Public Workshop for MS4 Permit Renewal	TBD	
Draft Revisions to Regional WDRs for Sanitary Sewer Systems	TBD	
Basin Plan Amendment for Board Consideration	December 2019	

B. PROGRESS REPORT: REC-1 Water Quality Objectives

Reporting Period Events	
Accomplishments during period	n/a
Collaboration during period	<ul style="list-style-type: none"> • Staff is participating in a committee for the revisions of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems • The internal REC-1 workgroup met in February and April 2019 • The REC-1 TMDL stakeholder working group met in April 2019
Activities planned but not completed	n/a
Key issues during period	none
Looking Forward	
Activities planned for next period	<ul style="list-style-type: none"> • A draft Basin Plan Amendment is expected to be released in Spring 2019 for public review and comment • The Board's consideration of tentative Investigative Order No. R9-2018-0021 for the San Diego River
Key issues on the horizon	none

6. Sanitary Sewer Overflows and Transboundary Flows from Mexico in the San Diego Region – January and February 2019 (Attachment B-7)

Staff Contact: Keith Yaeger

Sanitary sewer overflow (SSO) discharges from sewage collection systems and private laterals, and transboundary flows from Mexico into the San Diego Region can contain high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oil, and grease. SSO discharges and transboundary flows can pollute surface and ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters. Typical impacts of SSO discharges and transboundary flows include the closure of beaches and other recreational areas, the inundation of property, and the pollution of rivers and streams.

Sanitary Sewer Overflows (SSOs)

State agencies, municipalities, counties, districts, and other entities (collectively referred to as public entities) that own or operate sewage collection systems report SSO spills through an on-line database system, the *California Integrated Water Quality System* (CIWQS). These spill reports are required under the [Statewide General SSO Order](#)¹, the [San Diego Regional General SSO Order](#)², and/or individual National Pollutant Discharge Elimination System (NPDES) permit requirements. Some federal entities³ report this information voluntarily. Most SSO reports are available to the public on a real-time basis at the following State Water Board webpage:

https://ciwqs.waterboards.ca.gov/ciwqs/readOnly/PublicReportSSOServlet?reportAction=criteria&reportId=sso_main.

Details on the reported SSOs are provided in the following attached tables (Attachment B7):

- Table 1: January 2019 - Summary of Public and Federal Sanitary Sewer Overflows in the San Diego Region
- Table 2: February 2019 - Summary of Public and Federal Sanitary Sewer Overflows in the San Diego Region
- Table 3: January 2019 - Summary of Private Lateral Sewage Discharges in the San Diego Region
- Table 4: February 2019 - Summary of Private Lateral Sewage Discharges in the San Diego Region

A summary view of information on SSO trends is provided in the following attached figures (Attachment B7):

- Figure 1: Number of SSOs per Month
- Figure 2: Volume of SSOs per Month

These figures show the number and total volume of sewage spills per month from January 2018 to February 2019. During this period, 37 of the 63 collection systems in the San Diego Region regulated under the Statewide SSO Program reported one or more sewage spills. Twenty-six collection systems did not report any sewage spills. A total of 361 sewage spills were reported and 191,684 gallons of sewage reached surface waters.

Additional information about the San Diego Water Board sewage overflow regulatory program is available at http://www.waterboards.ca.gov/sandiego/water_issues/programs/ss0/index.shtml.

Transboundary Flows

Water and wastewater in the Tijuana River and from a number of canyons located along the international border ultimately drain from Tijuana, Mexico into the U.S. The water and wastewater flows are collectively referred to as transboundary flows. The U.S. Section of the International Boundary and Water Commission (USIBWC) has built canyon collectors to capture dry weather transboundary flows from some of the canyons for treatment at the South Bay International Wastewater Treatment Plant

¹ State Water Board Order No. 2006-0003-DWQ, *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems* as amended by Order No. WQ 2013-0058-EXEC, *Amending Monitoring and Reporting Program for Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*.

² San Diego Water Board Order No. R9-2007-0005, *Waste Discharge Requirements for Sewage Collection Agencies in the San Diego Region*.

³ Marine Corp Base Camp Pendleton reports sewage spills to CIWQS as required by its individual NPDES permit, Order No. R9-2013-0112, NPDES Permit No. CA0109347, *Waste Discharge Requirements for the Marine Corps Base, Camp Pendleton, Southern Regional Tertiary Treatment Plant and Advanced Water Treatment Plant, Discharge to the Pacific Ocean via the Oceanside Ocean Outfall*. The U.S. Marine Corps Recruit Depot and the U.S. Navy voluntarily report sewage spills through CIWQS.

(SBIWTP) in San Diego County at the U.S./Mexico border. Dry weather transboundary flows that are not captured by the canyon collectors for treatment at the SBIWTP, such as flows within the main channel of the Tijuana River, are reported by the USIBWC pursuant to [Order No. R9-2014-0009](#), the NPDES permit for the SBIWTP discharge. These uncaptured flows can enter waters of the U.S. and/or State, potentially polluting the Tijuana River Valley and Estuary, and south San Diego beach coastal waters.

Details on the reported transboundary flows are provided in the attached tables (Attachment B7):

- Table 5: January 2019 - Summary of Transboundary Flows from Mexico into the San Diego Region
- Table 6: February 2019 - Summary of Transboundary Flows from Mexico into the San Diego Region

The transboundary flows reported in Table 5 and 6 are based on unofficial spill notifications rather than official spill reports. USIBWC was affected by the federal government shutdown in December 2018 and January 2019, and the shutdown may have been the cause for delays in their submission of official spill reports. If the official spill reports for January 2018 and February 2019 provide different information, the San Diego Water Board will include an update in a future EOR.

According to the 1944 *Water Treaty for the Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande* and stipulations established in [IBWC Minute No. 283](#), the USIBWC and the Comisión Internacional de Límites y Aguas (CILA)⁴ share responsibility for addressing border sanitation problems, including transboundary flows. Efforts on both sides of the border have led to the construction and ongoing operation of several pump stations and treatment plants to reduce the frequency, volume, and pollutant levels of transboundary flows. This infrastructure includes but is not limited to the following:

- The SBIWTP, located just north of the U.S./Mexico border, provides secondary treatment for a portion of the sewage from Tijuana, Mexico and dry weather runoff collected from a series of canyon collectors located in Smuggler Gulch, Goat Canyon, Canyon del Sol, Stewart's Drain, and Silva Drain. The secondary-treated wastewater is discharged to the Pacific Ocean through the South Bay Ocean Outfall, in accordance with Order No. R9-2014-0009, NPDES No. CA0108928.
- Several pump stations and wastewater treatment plants in Tijuana, Mexico.
- The River Diversion Structure and Pump Station CILA in Tijuana divert dry weather flows from the Tijuana River. The flows are diverted to a Pacific Ocean shoreline discharge point approximately 5.6 miles south of the U.S./Mexico border, or can be diverted to SBIWTP or another wastewater treatment plant in Tijuana, depending on how Tijuana's public utility department (CESPT) configures the collection system. The River Diversion Structure is not designed to collect wet weather river flows and any river flows over 1,000 liters per second (35.3 cubic feet per second).

Additional information about sewage pollution within the Tijuana River Watershed is available at https://www.waterboards.ca.gov/sandiego/water_issues/programs/tijuana_river_valley_strategy/sewage_issue.html.

⁴ The Mexican section of the IBWC.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

Significant NPDES Permits,
WDRs, and Actions of the
San Diego Water Board

May 8, 2019

APPENDED TO EXECUTIVE OFFICER'S REPORT

TENTATIVE SCHEDULE
SIGNIFICANT NPDES PERMITS, WDRS, AND ACTIONS
OF THE SAN DIEGO WATER BOARD

Action Agenda Item	Action Type	Draft Complete	Written Comments Due	Consent Item
June 12, 2019 <i>San Diego Water Board</i>				
Master Reclamation Permit for Rincon Del Diablo MWD, Harmony Grove Water Reclamation Facility, San Diego County (<i>Bushnell</i>)	Addendum to WDRs	90%	16-May-2019	Yes
Waste Discharge Requirements for Sand Creek Development, LP, Tentative Tract Map No. 33356 (Amended Exhibit No. 3) Project, Riverside County (<i>Bradford</i>)	New WDRs	100%	12-Apr-2019	Yes
Rescission of Order No. 94-109, Waste Discharge Requirements for Lower Otay Lakes County Parks (<i>Bushnell</i>)	Rescind WDRs	90%	16-May-2019	Yes
Smart Cover System Deployments (<i>Mearon</i>)	Informational Item	NA	NA	NA
Update on Santa Margarita River Estuary Water Quality Restoration Strategy and Investigative Order (<i>Sarabia</i>)	Informational Item	95%	NA	NA
Investigative Order to Quantify Sources of Human Waste in to the San Diego River (<i>Walsh</i>)	Investigative Order Issuance	90%	20-Jun-2018	No
July 2019 <i>No Meeting Scheduled</i>				
August 14, 2019 <i>San Diego Water Board</i>				
Master Reclamation Permit for Eastern Municipal Water District, Temecula Valley Regional Water Reclamation Facility, Riverside County (<i>Bushnell</i>)	Master Recycling Permit Reissuance	10%	TBD	TBD
Update on the Healthy Waters Strategy for San Diego Bay (<i>Chiu</i>)	Informational Item	0%	NA	No
San Luis Rey Wastewater Treatment Plant, City of Oceanside, San Diego County (<i>Bushnell</i>)	Master Recycling Permit Reissuance	95%	8-Feb-2019	No
NPDES General Permit Reissuance for Discharges from Boatyards and Boat Maintenance and Repair Facilities Adjacent to Surface Waters within the San Diego Region (<i>Rodriguez</i>)	NPDES Permit Reissuance	0%	TBD	Maybe

Agenda Items Requested by Board Members

Requested Agenda Item	Board Member	Status
June 24, 2015		
Gary Strawn would like more information on how to address low dissolved oxygen conditions in the San Diego River. Informational item about how the Board deals with high levels of naturally occurring elements in groundwater when they interact with other uses.	Strawn	
	Olson	
August 12, 2015		
Informational item on the data that supports the Basin Plan WQOs.	Olson	
December 16, 2015		
Workshop on the status of restoration and land acquisition efforts along the San Diego River.	Strawn	
August 10, 2016		
Informational item before the Board on the SCCWRP Flow Recovery Project once their report is available.	Strawn	
March 15, 2017		
Information item regarding impacts of population dynamics on water quality	Olson	
Clarify operation of value for beneficial uses.	Abarbanel	
June 21, 2017		
San Diego Water Board to partner with the San Diego Unified Port District in planning and conducting additional and more focused outreach meetings with stakeholder groups on San Diego Bay water quality issues and environmental justice issues.	Abarbanel	
San Diego Water Board provide for San Diego Unified Port District participation in analysis of the data from the San Diego Bay Fish Consumption Study.	Abarbanel	
San Diego Unified Port District report back to San Diego Water Board on the steps the Port District is taking in their decision-making on San Diego Bay projects to ensure “long-term net gain in the quantity, quality, and permanence of wetlands acreage and values...”	Abarbanel	
San Diego Water Board support and encourage San Diego Unified Port District participation in the Southern California Coastal Water Research Project (SCCWRP) so that the Port District can be a recipient of the water quality science research conducted by SCCWRP.	Abarbanel	

Agenda Items Requested by Board Members

Requested Agenda Item	Board Member	Status
September 13, 2017		
A future board meeting will include an agenda item on how best to amend the WDRs.	Abarbanel	
December 13, 2017		
Gary Strawn wants an Informational Item on the low dissolved oxygen issues in the San Diego River. In particular, he wants to know more about the aerators added to the river. He would like the San Diego River Park Foundation and the San Diego River Conservancy to attend and possibly present information	Strawn	
February 14, 2018		
4.Board Member Warren requested an update on the San Onofre Nuclear Generating Station. In addition to an update on activities related to Board authorities, Ms. Warren would also like to know about the status of the radioactive waste piles.	Warrn	
April 11, 2018		
Board Member Olson directs staff to identify and review current proposed legislation related to homeless populations and related issues	Olson	
Board Member Warren commented that she would like to know more than provided in the April Executive Officer’s Report (EOR), about the storage of radioactive materials at the San Onofre Nuclear Generating Station. Board Member Abarbanel added his desire to know about how SONGS has prepared for impacts of climate change, particularly from sea level rise.	Warren, Abarbanel	
Board Member Abarbanel suggested the formation of a “Volunteer Climate Science Advisory Panel” to inform board staff of the latest climate science. Dr. Abarbanel suggested the panel consist of members from the Scripps Institution of Oceanography, the Southern California Coastal Water Research Project, San Diego State University, the University of California at Irvine and possibly from the San Francisco Estuary Institute	Abarbanel	
Board Member Abarbanel wants the San Diego Water Board to do “more” for environmental justice. He wants to know if we can work with the recently formed Office of Environmental Justice at the Attorney General. He would like a report back regarding that possibility.	Abarbanel	
Board Member Warren directed that future EORs clearly explain the opportunity to comment on the proposed enforcement priorities for the coming year.	Warren	

Agenda Items Requested by Board Members

Requested Agenda Item	Board Member	Status
May 9, 2018		
Board Member Abarbanel wants a letter sent to State Water Resources Control Board Executive Director Eileen Sobeck and to Board Member Joaquin Esquivel requesting a response to questions posed to Mr. Esquivel by the members of the San Diego Water Board at the April 2018 Board Meeting. The letter is to be signed by Chair Morales and Vice Chair Abarbanel.	Abarbanel	
Board Member Abarbanel directs Executive Officer Gibson to reach out to the Mayor of Temecula about possible attendance at the October Water Quality Coordinating Committee meeting in Sacramento.	Abarbanel	
Board Member Olson wants know statistics regarding homeless in the San Diego Region. The list will include health impacts and associated illnesses, along with the number of camps, campers and the amount of trash.	Olson	
Board Member Olson wants to know what portion of channels in Southern Orange County have already been adopted.	Olson	
Board Member Abarbanel wants to send a response to CalEPA’s comment letter asking for the establishment of a climate change panel in each Region, and asking to create a hiring classification for climate scientists, to be equal to geologists, engineers, and other scientists.	Abarbanel	
June 20, 2018		
Board Member Olson invites fellow Board Members to visit an Indirect Potable Reuse site in the Riverside Water Board portion of Orange County.	Olson	
The Board Chair and Vice-Chair want staff to incorporate education of the public on the need to protect water quality into Board actions whenever practicable.	Morales, Abarbanel	

Agenda Items Requested by Board Members

Requested Agenda Item	Board Member	Status
<p>Several Board Members had questions that were not answered at the Board Meeting. Southern California Edison will be invited back for another meeting in the next 3-12 months to address the following questions: Update on the decommissioning process, including status of the spent nuclear fuel; Explanation on calculation of shut down costs. Particularly, did estimates include inflation? How many curies are stored on site relative to the amount at Chernobyl and Fukushima? How much was released from those two sites? What is the status of the area around those accidents out to 20 kilometers? Board Member Abarbanel wants to meet with Southern California Edison to discuss development of a new strategy to compel a federal solution to the storage of spent nuclear fuel.</p>		
	August 8, 2018	
<p>Board Member Abarbanel wants to hear back from Southern California Edison (SCE) about the San Onofre Nuclear Generating Station (SONGS) sooner than the 3-12 month window presented in the August agenda package.</p>	Abarbanel	
<p>Chair Morales wants to inform San Diego Water Board stakeholders about the upcoming hearings pertaining to desalination plant planned for Huntington Beach.</p>	Morales	
<p>Board Member Abarbanel wants to know if the Southern California Coastal Research Project (SCCWRP) could assist with the dilemma posed by measuring indicator bacteria to evaluate the protection of human health from recreational activities where the ingestion of water is likely.</p>	Abarbanel	
	September 12, 2018	
<p>Board Member Warren wants to know the status of the posting of updated fish consumption advisories within the next 6 to 12 months.</p>	Warren	
<p>Chair Morales wants information on the costs of the City of San Diego's plume tracking efforts.</p>	Morales	
<p>Board Member Olson wants to review the Cities strategy for the removal of Arundo donax.</p>	Olson	
<p>Board Member Strawn requests an informational item on Encina's sludge drying operation.</p>	Strawn	
<p>Board Member Warren wants an update on efforts to expand the use of recycled water by the Encina Wastewater Authority.</p>	Warren	

Agenda Items Requested by Board Members

Requested Agenda Item	Board Member	Status
October 12, 2018		
Board Members Abarbanel and Olson want to know more about the data behind the City’s presentation. They want to meet with Dr. Tim Stebbins of the City, along with Drs. Falk Feddersen and Sarah Giddings from the Scripps Institution of Oceanography.	Abarbanel, Olson	
December 12, 2018		
Board Member Abarbanel wants the Executive Officer to follow up on concerns expressed in Public Forum about the impending work load associated with review of project proposals to install new on-site waste treatment systems that will discharge more than 1200 gallons per day over the Temecula groundwater basin.	Abarbanel	
Board Members Olson and Warren want to visit the San Onofre Nuclear Generating Station (SONGS).	Olson, Warren	
Several Board Members requested another information item regarding the San Onofre Nuclear Generating Station (SONGS), with a particular interest in the storage of spent nuclear fuel. They expressed a desire to have a public meeting that included federal elected officials, the State Lands Commission, the California Coastal Commission, Southern California Edison and the Nuclear Regulatory Commission.		
Dr. Olson wants to meet with the small water suppliers that service environmental justice and disadvantaged communities in the San Diego Region	Olson	
Dr. Olson wants an update on regional efforts to eradicate Arundo donax. She will provide a list of contacts to invite to the informational item.	Olson	
Vice Chair Abarbanel requests an update on detection methods for fecal indicator bacteria and other measures for the protection of human health.	Abarbanel	
Vice Chair Abarbanel requests an informational item on atmospheric rivers. He suggests combining the item with the SCCRWP update on pathogen monitoring and to also include scientists from the Scripps Institution of Oceanography.	Abarbanel	
February 13, 2019		
Board Member Strawn suggested that staff participate in the first annual "2019 SDSU Water Days" event on April 23, 2019.	Strawn	
Informational item on the status of the Mission Bay ReWild project, with a particular focus on challenges the Board can help address.	Warren	

Agenda Items Requested by Board Members

Requested Agenda Item	Board Member	Status
Several Board Members asked the Executive Officer to arrange outreach meetings with elected leaders of Coronado, National City, Imperial Beach, the County of San Diego, and the Navy Commander of the United States Navy Region Southwest (Navy Mayor of San Diego).		
Executive Officer to invite representative(s) from the U.S. Customs and Border Protection to address the Board with information or concerns about water quality in the Tijuana River Valley area.	Abarbanel, Cantú	March 13, 2019
March 13, 2019		
Informational update on the Modern Monitoring project to prepare the Board for possible discussions at the Water Quality Coordinating Committee Meeting to be held in October.	Abarbanel	September 2019

Enforcement Actions for February and March 2019

Enforcement Date	Enforcement Action	Entity/ Facility/ Location	Summary of Violations and Enforcement	Applicable Permit/Order Violated
NPDES WASTEWATER				
02/06/2019	Administrative Civil Liability No. R9-2018-0175	1310 K Street Apartments Investors, LLC, Groundwater (GW) Extraction, San Diego	Mandatory minimum penalties for late reporting	National Pollutant Discharge Elimination System (NPDES) General Order No. R9-2015-0013
02/06/2019	Administrative Civil Liability No. R9-2018-0177	Bosa Development California II, Inc., Bosa Lot 5 Ash & Kettner GW Extraction, San Diego	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
02/06/2019	Administrative Civil Liability No. R9-2018-0171	LMI Little Italy Holdings, LLC, GW Extraction, 1440 Columbia Street, San Diego	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
02/06/2019	Administrative Civil Liability No. R9-2018-0166	Wood Partners, LLC, GW Extraction, 1919 Pacific Highway, San Diego	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
02/06/2019	Administrative Civil Liability No. R9-2018-0176	ABP 850 Coast, LLC, GW Extraction, Encinitas	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
02/06/2019	Administrative Civil Liability No. R9-2018-0160	Alvarado Hospital Medical Center, GW Extraction, San Diego	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
02/06/2019	Administrative Civil Liability No. R9-2018-0178	LPP Lane Field, LLC, GW Extraction, Lane Field South Hotel, San Diego	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013

Enforcement Actions for February and March 2019

Enforcement Date	Enforcement Action	Entity/ Facility/ Location	Summary of Violations and Enforcement	Applicable Permit/Order Violated
02/06/2019	Administrative Civil Liability No. R9-2018-0167	LMC East Village Holdings, LLC, GW Extraction, Little Italy, 460 16 th Street, San Diego	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
02/06/2019	Administrative Civil Liability No. R9-2018-0187	Pinnacle Bayside Development US L.P., GW Extraction, 15 th & Island, San Diego	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
02/20/2019	Administrative Civil Liability No. R9-2018-0186	Padre Dam Municipal Water District, Ray Stoyer Water Recycling Facility, Santee	Mandatory minimum penalties for effluent violations of zinc	NPDES Order No. R9-2015-0002
02/20/2019	Administrative Civil Liability No. R9-2019-0024	Promenade Mall Development Corp., GW Extraction, Pacific Beach	Mandatory minimum penalties for late reporting	NPDES General Order No. R9-2015-0013
03/08/2019	Staff Enforcement Letter	Pinnacle, GW Extraction, 11 th Avenue and Broadway, San Diego	Deficient reporting	NPDES General Order No. R9-2015-0013
03/28/2019	Staff Enforcement Letter	City of Oceanside, discharge to Oceanside Ocean Outfall	Deficient monitoring	NPDES Order No. R9-2011-0016
NPDES STORMWATER				
02/01/2019	Notice of Violation No. R9-2019-0047	Temecula Oil & Water LP, 76 & Circle K Fueling Facility	Deficient Best Management Practices (BMP) implementation	NPDES Construction General Order No. 2009-0009-DWQ

Enforcement Actions for February and March 2019

Enforcement Date	Enforcement Action	Entity/ Facility/ Location	Summary of Violations and Enforcement	Applicable Permit/Order Violated
02/05/2019	Notice of Violation No. R9-2019-0049	FCA Encinitas LLC, Encinitas Beach Resort	Deficient BMP implementation, deficient Storm Water Pollution Prevention Plan (SWPPP), unauthorized discharge	NPDES Construction General Order No. 2009-0009-DWQ
02/07/2019	Notice of Violation No. R9-2019-0054	Conant Auto Retail Group, Honda, Vista	Deficient SWPPP	NPDES Construction General Order No. 2009-0009-DWQ
02/08/2019	Notice of Violation No. R9-2019-0055	Hotel Circle Property LLC, Town and Country, San Diego	Deficient BMP implementation	NPDES Construction General Order No. 2009-0009-DWQ
02/15/2019	Notice of Violation No. R9-2019-0064	Casa Aldea Carlsbad LP, Cannon Road Senior Housing, Carlsbad	Deficient BMP Implementation	NPDES Construction General Order No. 2009-0009-DWQ
02/15/2019	Notice of Violation No. R9-2019-0063	Otay Landfill Inc., Otay	Deficient BMP Implementation	NPDES Industrial General Order No. 2014-0057-DWQ
03/15/2019	Notice of Violation No. R9-2019-0098	Bill Dupleich, Diamond Concrete Supply, Lakeside	Unauthorized discharge	NPDES Industrial General Order No. 2014-0057-DWQ
03/07/2019	Notice of Violation No. R9-2019-0091	Grossmont Cuyamaca Community College District, Grossmont College Performing Arts Complex	Deficient BMP implementation	NPDES Construction General Order No. 2009-0009-DWQ
03/22/2019	Notice of Violation No. R9-2019-0103	Mar Con Products, Inc.	Deficient SWPPP	NPDES Construction General Order No. 2009-0009-DWQ
03/05/2019	Notice of Violation No. R9-2019-0067	City of Wildomar, Phase I MS4	Failure to prohibit over-irrigation as an illicit discharge	NPDES Order No. R9-2013-0001

Enforcement Actions for February and March 2019

Enforcement Date	Enforcement Action	Entity/ Facility/ Location	Summary of Violations and Enforcement	Applicable Permit/Order Violated
03/05/2019	Notice of Violation No. R9-2019-0069	City of Temecula, Phase I MS4	Failure to prohibit over-irrigation as an illicit discharge	NPDES Order No. R9-2013-0001
03/05/2019	Notice of Violation No. R9-2019-0073	Riverside County Flood Control and Water Conservation District, Phase I MS4	Failure to prohibit over-irrigation as an illicit discharge	NPDES Order No. R9-2013-0001
03/05/2019	Notice of Violation No. R9-2019-0071	County of Riverside, Phase I MS4	Failure to prohibit over-irrigation as an illicit discharge	NPDES Order No. R9-2013-0001
03/08/2019	Notice of Violation No. R9-2019-0082	Trampas Canyon Dam and Reservoir, Santa Margarita Water District	Deficient reporting and BMP implementation	NPDES Construction General Order No. 2009-0009-DWQ
02/05/2019	Staff Enforcement Letter	The Picerne Group, Laguna Niguel Apartments	Deficient BMP implementation	NPDES Construction General Order No. 2009-0009-DWQ
02/08/2019	Staff Enforcement Letter	Mar Con Products Inc., San Marcos	Unauthorized discharge, deficient BMP implementation	NPDES Industrial General Order No. 2014-0057-DWQ
02/08/2019	Staff Enforcement Letter	Pipeline Products Inc., San Marcos	Deficient BMP implementation	NPDES Industrial General Order No. 2014-0057-DWQ
02/08/2019	Staff Enforcement Letter	ADP Granite & Marble Design, San Marcos	Deficient SWPPP, deficient BMP implementation	NPDES Industrial General Order No. 2014-0057-DWQ
02/08/2019	Staff Enforcement Letter	Free Builders Supply, Inc., San Marcos	Deficient BMP implementation	NPDES Industrial General Order No. 2014-0057-DWQ
02/21/2019	Staff Enforcement Letter	Rancho Estates Inc., 2822 Bernardo Ave., Escondido	Deficient BMP implementation	NPDES Construction General Order No. 2009-0009-DWQ
03/04/2019	Staff Enforcement Letter	CityMark Hymettus LLC, Hymettus Estates	Deficient BMP implementation, late reporting	NPDES Construction General Order No. 2009-0009-DWQ

Enforcement Actions for February and March 2019

Enforcement Date	Enforcement Action	Entity/ Facility/ Location	Summary of Violations and Enforcement	Applicable Permit/Order Violated
03/25/2019	Staff Enforcement Letter	Roberstons Ready Mix, Escondido Batch Plant	Unauthorized discharge, deficient BMP implementation	NPDES Industrial General Order No. 2014-0057-DWQ
WDRs SANITARY SEWER OVERFLOWS				
02/20/2019	Administrative Civil Liability No. R9-2019-0018	City of Del Mar Collection System	Sanitary sewer overflow to the Pacific Ocean	Waste Discharge Requirements (WDR) General Order No. 2006-003-DWQ
03/13/2019	Administrative Civil Liability No. R9-2019-0020	San Diego County Department of Public Works	Sanitary sewer overflow to Los Coches Creek	WDR General Order No. 2006-003-DWQ
WDRs AGRICULTURE				
03/22/2019	Notice of Violation No. R9-2019-0096 and Investigative Order No. R9-2019-0099	Hines Growers, Inc., Fallbrook	Failure to minimize or prevent the discharge of waste to waters of the State; Investigative Order requires description of improved management measures	WDR General Order No. R9-2016-0004 for Commercial Agricultural Operations
2/15/2019	Staff Enforcement Letter	KTL Mushroom, Fallbrook	Failure to minimize or prevent the discharge of waste to waters of the State	WDR General Order No. R9-2016-0004 for Commercial Agricultural Operations
03/29/2019	Staff Enforcement Letter	Leon Jr., Roberto, Fallbrook	Failure to submit a Notice of Intent; discharging without a permit	WDR General Order No. R9-2016-0004 for Commercial Agricultural Operations
03/29/2019	Staff Enforcement Letter	Shafer, George Abram, Oceanside	Failure to submit a Notice of Intent; discharging without a permit	WDR General Order No. R9-2016-0004 for Commercial Agricultural Operations

Enforcement Actions for February and March 2019

Enforcement Date	Enforcement Action	Entity/ Facility/ Location	Summary of Violations and Enforcement	Applicable Permit/Order Violated
SITE		CLEANUP		
2/8/2019	Addendum #2 to Cleanup and Abatement Order No. R9-2017-0041	Tyco International and TE Connectivity, Former Electralab Facility, 1105 Second St., Encinitas	Amendments to incorporate additional investigation efforts to support feasibility study.	TCE and other wastes in groundwater
2/20/2019	Notice of Violation No. R9-2019-0065	Chevron Environmental management Company and Mr. Ronald V. Kieffe, CRM Automotive, San Marcos	Failure to timely submit Site Investigation Work Plan	Investigative Order No. R9-2018-0156
OTHER				
03/01/2019	Staff Enforcement Letter	Swift Slip Docks for Matson Residence Pile Replacement Project, San Diego Bay	Failure to obtain certification prior to fill	Clean Water Act section 401
03/15/2019	Staff Enforcement Letter	Indian Oaks Trailer Ranch	Deficient reporting	WDR Order No. 88-24

Table 1: January 2019 - Summary of Public and Federal Sanitary Sewer Overflows in the San Diego Region

Responsible Agency	Collection System (CS)	Total Volume ¹	Total Recovered ²	Total Reaching Surface Waters ³	Total Reaching Separate Storm Drain and Recovered ⁴	Total Discharged to Land ⁵	Percent Recovered	Percent Reaching Surface Waters	Percent Reaching Separate Storm Drain and Recovered	Percent Discharged to Land	Surface Water Body Affected	Miles of Pressure Sewer	Miles of Gravity Sewer	Population in Service Area
City of Chula Vista	City of Chula Vista CS	500	450	50	450	0	90%	10%	90%	0%	N/A	3.4	503	265,070
City of Laguna Beach	City of Laguna Beach CS	600	300	300	0	300	50%	50%	0%	50%	Pacific Ocean	9.0	86.0	18,000
City of Lemon Grove	City of Lemon Grove CS	722	0	0	0	722	0%	0%	0%	100%	-	0.1	62.4	25,800
City of San Diego	City of San Diego CS	3,600	1,800	1,800	1,800	0	50%	50%	50%	0%	Mission Valley Storm Drain Channel	153.7	3,021.1	2,207,591
		360	360	0	0	360	100%	0%	0%	100%	-			
		525	0	0	0	525	0%	0%	0%	100%	-			
		780	0	0	0	780	0%	0%	0%	100%	-			
		53	53	0	0	53	100%	0%	0%	100%	-			
		2,316	2,020	296	2,020	0	87%	13%	87%	0%	Alvarado Creek			
		92	92	0	0	92	100%	0%	0%	100%	-			
16,150	12,950	0	0	16,150	80%	0%	0%	100%	-					
El Toro Water District	El Toro Water District CS	5	3	0	0	5	60%	0%	0%	100%	-	6	118	48,461
Fallbrook Public Utility District	Fallbrook Public Utility District CS	5,100	1,800	3,300	1,800	0	35%	65%	35%	0%	Ostrich Farm Creek	4.6	78.6	23,000
Irvine Ranch Water District	Irvine Ranch Water District-El Toro CS	310	100	210	100	0	32%	68%	32%	0%	Aliso Creek	0.0	4.0	6,316
National City	National City CS	30	30	0	0	30	100%	0%	0%	100%	-	1.0	105.0	58,967
San Diego County Department of Public Works	County of San Diego CS	2,681	2,300	0	0	2,681	86%	0%	0%	100%	-	10.0	408.0	35,567
Totals for Public Spills		33,824	22,258	5,956	6,170	21,698	66%	18%	18%	64%	-	187.8	4,386.1	2,688,772
Totals for Federal Spills		0	0	0	0	0	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A

¹Total Volume = total amount that discharged from sanitary sewer system to a separate storm drain, drainage channel, surface water body, and/or land.

²Total Recovered = total amount recovered from a separate storm drain, drainage channel, surface water body, and/or land.

³Total Reaching Surface Waters = total amount reaching separate storm drain (not recovered), drainage channel, and/or surface water body, but does not include amount reaching separate storm drain that was recovered.

⁴Total Reaching Separate Storm Drain and Recovered = total amount reaching separate storm drain that was recovered.

⁵Total Discharged to Land = total amount reaching land.

Table 2: February 2019 - Summary of Public and Federal Sanitary Sewer Overflows in the San Diego Region

Responsible Agency	Collection System (CS)	Total Volume ¹	Total Recovered ²	Total Reaching Surface Waters ³	Total Reaching Separate Storm Drain and Recovered ⁴	Total Discharged to Land ⁵	Percent Recovered	Percent Reaching Surface Waters	Percent Reaching Separate Storm Drain and Recovered	Percent Discharged to Land	Surface Water Body Affected	Miles of Pressure Sewer	Miles of Gravity Sewer	Population in Service Area
		(Gallons)					(%)							
City of Chula Vista	City of Chula Vista CS	250	200	50	200	0	80%	20%	80%	0%	N/A	3.4	503	265,070
City of La Mesa	City of La Mesa CS	50	50	0	0	50	100%	0%	0%	100%	-	0.0	155.0	58,244
City of Oceanside	City of Oceanside CS, La Salina Wastewater Treatment Plant	7,500	0	7,500	0	0	0%	100%	0%	0%	Loma Alta Creek	35.6	439.7	69,957
City of San Diego	City of San Diego CS	1,260	1,260	0	0	1,260	100%	0%	0%	100%	-	153.7	3,032.0	2,207,591
		61	61	0	0	61	100%	0%	0%	100%	-			
		60	0	0	0	60	0%	0%	0%	100%	-			
El Toro Water District	El Toro Water District CS	450	405	0	0	450	90%	0%	0%	100%	-	6	118	48,461
San Diego County Department of Public Works	County of San Diego CS	100	0	0	0	100	0%	0%	0%	100%	-	10.0	408.0	35,567
		130	100	0	0	130	77%	0%	0%	100%	-			
Vallecitos Water District	Meadowlark CS	23,251	0	23,251	0	0	0%	100%	0%	0%	San Marcos Creek	7.8	260.6	100,800
		2,400	0	2,400	0	0	0%	100%	0%	0%	San Marcos Creek			
Totals for Public Spills		35,512	2,076	33,201	200	2,111	6%	93%	1%	6%	-	208.7	4,655.7	2,684,890
Totals for Federal Spills		0	0	0	0	0	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A

¹Total Volume = total amount that discharged from sanitary sewer system to a separate storm drain, drainage channel, surface water body, and/or land.

²Total Recovered = total amount recovered from a separate storm drain, drainage channel, surface water body, and/or land.

³Total Reaching Surface Waters = total amount reaching separate storm drain (not recovered), drainage channel, and/or surface water body, but does not include amount reaching separate storm drain that was recovered.

⁴Total Reaching Separate Storm Drain and Recovered = total amount reaching separate storm drain that was recovered.

⁵Total Discharged to Land = total amount reaching land.

Table 3: January 2019 - Summary of Private Lateral Sewage Discharges in the San Diego Region

Responsible Agency	Collection System (CS)	Total Volume ¹	Total Recovered ²	Total Reaching Surface Waters ³	Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land ⁴	Percent Recovered	Percent Reaching Surface Waters	Percent Reaching Separate Storm Drain & Recovered and/or Discharged to Land	Population in Service Area	Lateral Connections
		(Gallons)				(%)				
Carlsbad Municipal Water District (MWD)	Carlsbad MWD CS	74	74	0	74	100%	0%	100%	69,750	22,500
		128	128	0	128	100%	0%	100%		
		2	2	0	2	100%	0%	100%		
City of Escondido	Hale Avenue Resource Recovery Facility Disch to San Elijo Ocean Outfall CS	110	0	0	110	0%	0%	100%	171,455	41,750
City of Laguna Beach	City of Laguna Beach CS	10	10	0	10	100%	0%	100%	18,000	6,650
City of National City	City of National City CS	10	10	0	10	100%	0%	100%	58,967	8,000
City of San Clemente	City of San Clemente CS	45	45	0	45	100%	0%	100%	63,522	16,237
City of San Diego	City of San Diego CS	239	239	0	239	100%	0%	100%	2,207,591	267,237
		194	194	0	194	100%	0%	100%		
City of Vista	City of Vista CS	20	20	0	20	100%	0%	100%	90,000	16,525
		5	5	0	5	100%	0%	100%		
		700	700	0	700	100%	0%	100%		
Moulton Niguel Water District	Moulton Niguel Water District CS	90	60	30	60	67%	33%	67%	172,000	50,833
Padre Dam Municipal Water District	Padre Dam Municipal Water District CS	91	91	0	91	100%	0%	100%	69,957	15,202
San Diego County Dept of Public Works	Julian Water Pollution Facility CS	145	0	0	145	0%	0%	100%	96	106
Santa Margarita Water District	Santa Margarita Water District CS	750	0	375	375	0%	50%	50%	160,000	60,500
South Coast Water District	South Coast Water District CS	10	10	0	10	100%	0%	100%	42,000	14,762
Vallecitos Water District	Meadowlark CS	90	0	90	90	0%	100%	100%	97,481	22,047
		5,436	4,980	456	4,980	92%	8%	92%		
Totals		8,149	6,568	951	7,288	81%	12%	89%	3,220,819	542,349

¹Total Volume = total amount that discharged from private lateral to a separate storm drain, drainage channel, surface water body, and/or land.

²Total Recovered = total amount recovered from a separate storm drain, drainage channel, surface water body, and/or land.

³Total Reaching Surface Waters = total amount reaching separate storm drain (not recovered), drainage channel, and/or surface water body, but does not include amount reaching separate storm drain that was recovered.

⁴Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land = total amount reaching separate storm drain that was recovered and/or total amount reaching land.

Table 4: February 2019 - Summary of Private Lateral Sewage Discharges in the San Diego Region

Responsible Agency	Collection System (CS)	Total Volume ¹	Total Recovered ²	Total Reaching Surface Waters ³	Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land ⁴	Percent Recovered	Percent Reaching Surface Waters	Percent Reaching Separate Storm Drain & Recovered and/or Discharged to Land	Population in Service Area	Lateral Connections
		(Gallons)				(%)				
City of El Cajon	City of El Cajon CS	20	1	19	1	5%	95%	5%	103,894	16,950
El Toro Water District	El Toro Water District CS	1	0	0	1	0%	0%	100%	49,124	9,549
City of Escondido	Hale Avenue Resource Recovery Facility Discharge to San Elijo Ocean Outfall CS	55	55	0	55	100%	0%	100%	171,455	41,750
		275	0	0	275	0%	0%	100%		
City of Imperial Beach	City of Imperial Beach CS	80	80	0	80	100%	0%	100%	26,337	10,909
City of Laguna Beach	City of Laguna Beach CS	10	10	0	10	100%	0%	100%	18,000	6,650
City of San Diego	City of San Diego CS	30	30	0	30	100%	0%	100%	2,207,591	267,237
		51	51	0	51	100%	0%	100%		
		118	118	0	118	100%	0%	100%		
		31	31	0	31	100%	0%	100%		
		309	250	59	250	81%	19%	81%		
Padre Dam Municipal Water District	Padre Dam Municipal Water District CS	6,715	100	6,615	0	1%	99%	0%	69,957	15,202
South Coast Water District	South Coast Water District CS	20	20	0	20	100%	0%	100%	42,000	14,762
City of Vista	City of Vista CS	49	49	0	49	100%	0%	100%	90,000	16,525
		196	196	0	196	100%	0%	100%		
Totals		7,960	991	6,693	1,167	12%	84%	15%	2,778,358	399,534

¹Total Volume = total amount that discharged from private lateral to a separate storm drain, drainage channel, surface water body, and/or land.

²Total Recovered = total amount recovered from a separate storm drain, drainage channel, surface water body, and/or land.

³Total Reaching Surface Waters = total amount reaching separate storm drain (not recovered), drainage channel, and/or surface water body, but does not include amount reaching separate storm drain that was recovered.

⁴Total Reaching Separate Storm Drain & Recovered and/or Discharged to Land = total amount reaching separate storm drain that was recovered and/or total amount reaching land.

Figure 1: Number of SSOs per Month

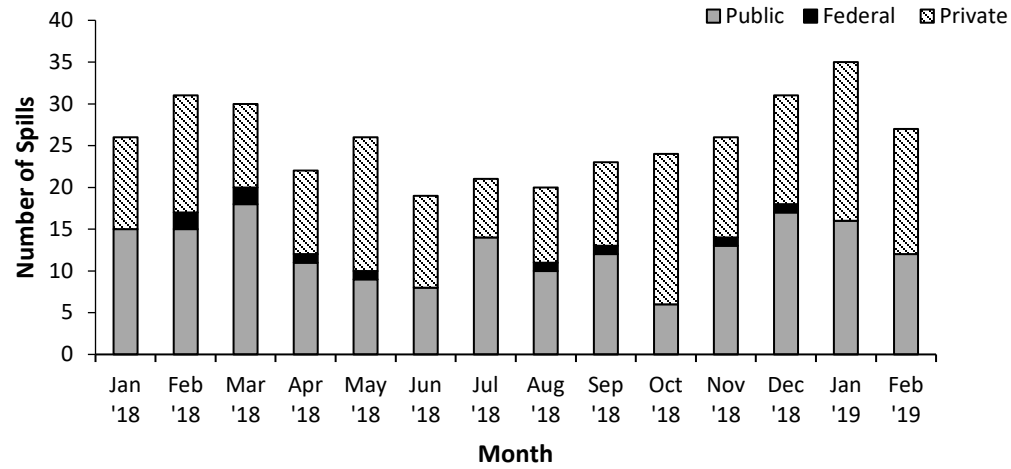


Figure 1: The number of public, federal, and private sanitary sewer overflows (SSOs) per month from January 2018 to February 2019.

Figure 2: Volume of SSOs per Month

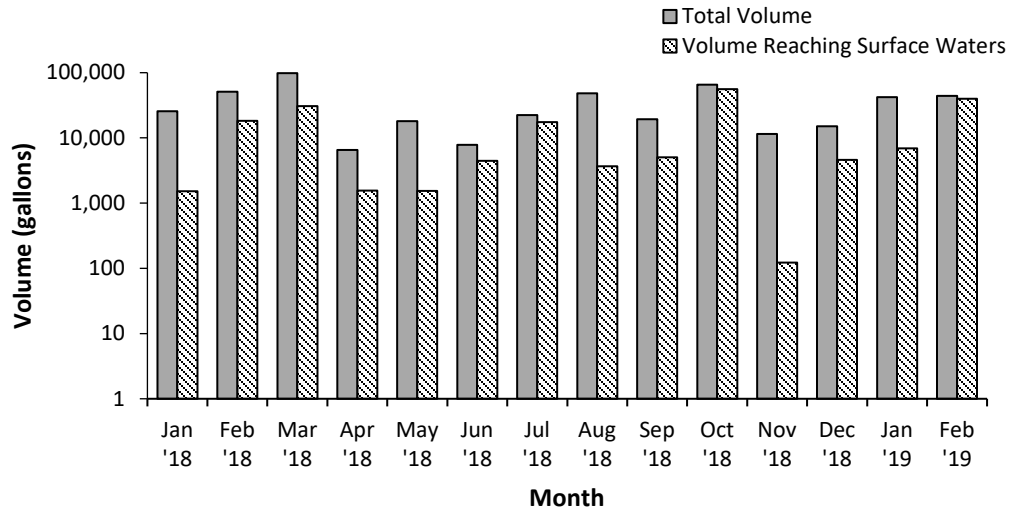


Figure 2: The volume of public, federal, and private sanitary sewer overflows (SSOs) per month from January 2018 to February 2019. Note the logarithmic scale on the vertical axis showing the wide variation in SSO volumes.

Table 5: January 2019 - Summary of Transboundary Flows from Mexico into the San Diego Region

Location	Start Date	Total Volume	Total Recovered	Total Reaching Surface Waters	Percent Recovered	Percent Reaching Surface Waters	Additional Details
		(Gallons)			(%)		
Dry Weather ¹							
Tijuana River	12/10/2018	Currently Unknown	-	-	-	-	Collector Poniente in Mexico ruptured causing raw sewage to enter the Tijuana River. The repair of Collector Poniente was completed on February 8, 2019. USIBWC initially estimated the peak flow between 6-7 million gallons per day (MGD). During the repair period, Mexico was able to divert some of the flow to other collection lines. However, approximately 2.3 to 4.4 MGD of sewage entered the Tijuana River during this period. It can be assumed that a portion of this flow crossed the international border into the US. USIBWC has not confirmed the total volume of the spill. USIBWC was affected by a federal government shutdown in December 2018 and January 2019, which may have caused delays in their submission of official spill reports. As of April 19, 2019, USIBWC has not submitted the missing official spill reports.
Canyon Del Sol	1/4/2019	9,000	0	9,000	0%	100%	Trash and debris blocked the intake screen at Canyon Del Sol canyon collector causing approximately 9,000 gallons to bypass the collection system and flow into a downstream drainage structure that lead to the Tijuana River. Increased flow to the Canyon Del Sol canyon collector may have been due to a water main break in Mexico.
Total Dry Weather		N/A	-	-	-	-	-
Wet Weather ²							
Tijuana River	1/12/2019	N/A	-	-	-	-	USIBWC reported that Pump Station CILA was shut down due to precipitation in the Tijuana River watershed. With Pump Station CILA shut down, flows in the Tijuana River were not diverted allowing the flow to cross the U.S./Mexico border. This wet weather event occurred concurrently with the sewage release from the rupture of Collector Poniente in Mexico.
Tijuana River	N/A	N/A	-	-	-	-	On January 25, 2019, USIBWC reported that the Tijuana River Channel experienced high flows due to rain events earlier in the month. It can be assumed that the flows in the Tijuana River crossed the US/Mexico border during this time. Order No. R9-2014-0009 defines wet weather as a rain event 0.1 inches or greater plus 72 hours after cessation of precipitation. USIBWC reported that precipitation at the Goat Canyon rain gauge was over 0.1 inches on the 6th, 12th and 13th, 15th, and 31st of January 2019. These wet weather events occurred concurrently with the sewage release from the rupture of Collector Poniente in Mexico.
Total Wet Weather		N/A	-	-	-	-	-

¹Order No. R9-2014-0009 requires monthly reporting of all dry weather transboundary flows.

²Order No. R9-2014-0009 does not require monthly reporting of wet weather transboundary flows. Any information provided regarding these flows is voluntary.

Table 6: February 2019 - Summary of Transboundary Flows from Mexico into the San Diego Region

Location	Start Date	Total Volume	Total Recovered	Total Reaching Surface Waters	Percent Recovered	Percent Reaching Surface Waters	Additional Details
		(Gallons)			(%)		
Dry Weather¹							
Tijuana River	12/10/2018	Currently Unknown	-	-	-	-	Collector Poniente in Mexico ruptured causing raw sewage to enter the Tijuana River. The repair of Collector Poniente was completed on February 8, 2019. USIBWC initially estimated the peak flow between 6-7 million gallons per day (MGD). During the repair period, Mexico was able to divert some of the flow to other collection lines. However, approximately 2.3 to 4.4 MGD of sewage entered the Tijuana River during this period. It can be assumed that a portion of this flow crossed the international border into the US. USIBWC has not confirmed the total volume of the spill. USIBWC was affected by a federal government shutdown in December 2018 and January 2019, which may have caused delays in their submission of official spill reports. As of April 19, 2019, USIBWC has not submitted the missing official spill reports.
Total Dry Weather		N/A	-	-	-	-	-
Wet Weather²							
Tijuana River	N/A	N/A	-	-	-	-	On February 26, 2019, USIBWC reported that the Tijuana River Channel experienced high flows due to rain events during the 'previous three weeks'. It can be assumed that the flows in the Tijuana River crossed the US/Mexico border during this time. Order No. R9-2014-0009 defines wet weather as a rain event 0.1 inches or greater plus 72 hours after cessation of precipitation. USIBWC reported that precipitation at the Goat Canyon rain gauge was over 0.1 inches on the 2nd, 4th, 5th, 6th, 9th and 13th of February 2019. The wet weather events on the 2nd, 4th, 5th, and 6th of February 2019 occurred concurrently with the sewage release from the rupture of Collector Poniente in Mexico.
Total Wet Weather		N/A	-	-	-	-	-

¹Order No. R9-2014-0009 requires monthly reporting of all dry weather transboundary flows.

²Order No. R9-2014-0009 does not require monthly reporting of wet weather transboundary flows. Any information provided regarding these flows is voluntary.