



Santa Ana Watershed Project Authority

Emerging Constituents Program Task Force Status

**Mark R. Norton PE, LEED AP
Santa Ana Watershed Project
Authority**

July 2, 2019

In 2008, a voluntary agreement was established between regulators and regulated community in place of a new regulation



Development of Sampling Program



Consultant and Regulatory Support

- Tim Moore, Risk Sciences
 - Facilitation
 - Media Interaction
 - Regional Bd Presentations
- SAWPA
 - Workgroup administrator
 - Media Interaction
- Regional Board, DPH and USGS at table



21 Water & Wastewater Agencies and Regional Board Sign Agreement to Sample ECs

Who participates:

- Water Wholesalers
- Water Retailers
- Wastewater Treatment Operators
- Regional Board Staff
- CDPH Staff
- USGS Staff
- Analytical Lab Staff
- NWRI Staff
- Environmental NGOs



Emerging Constituents (EC) Program Task Force

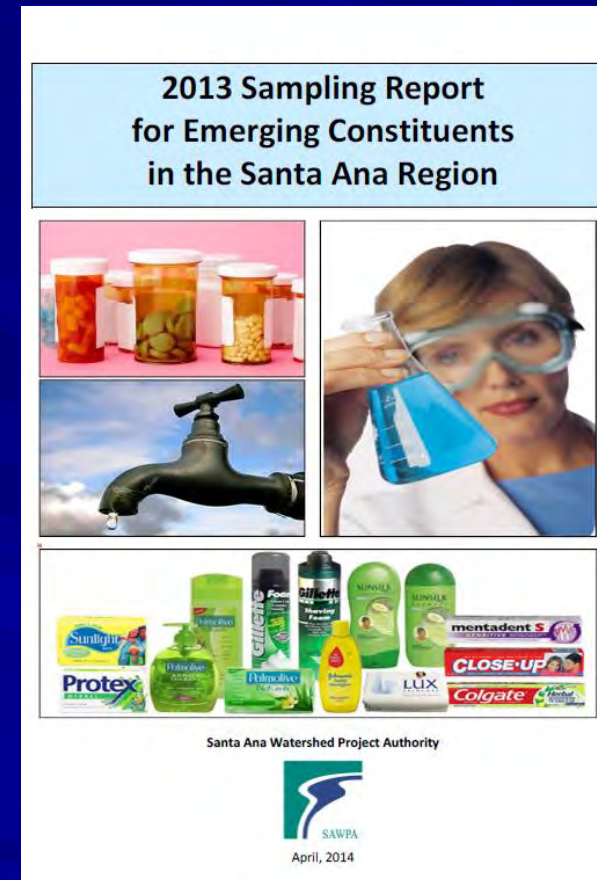
SAWPA authorized TF agreement - 2012

Description

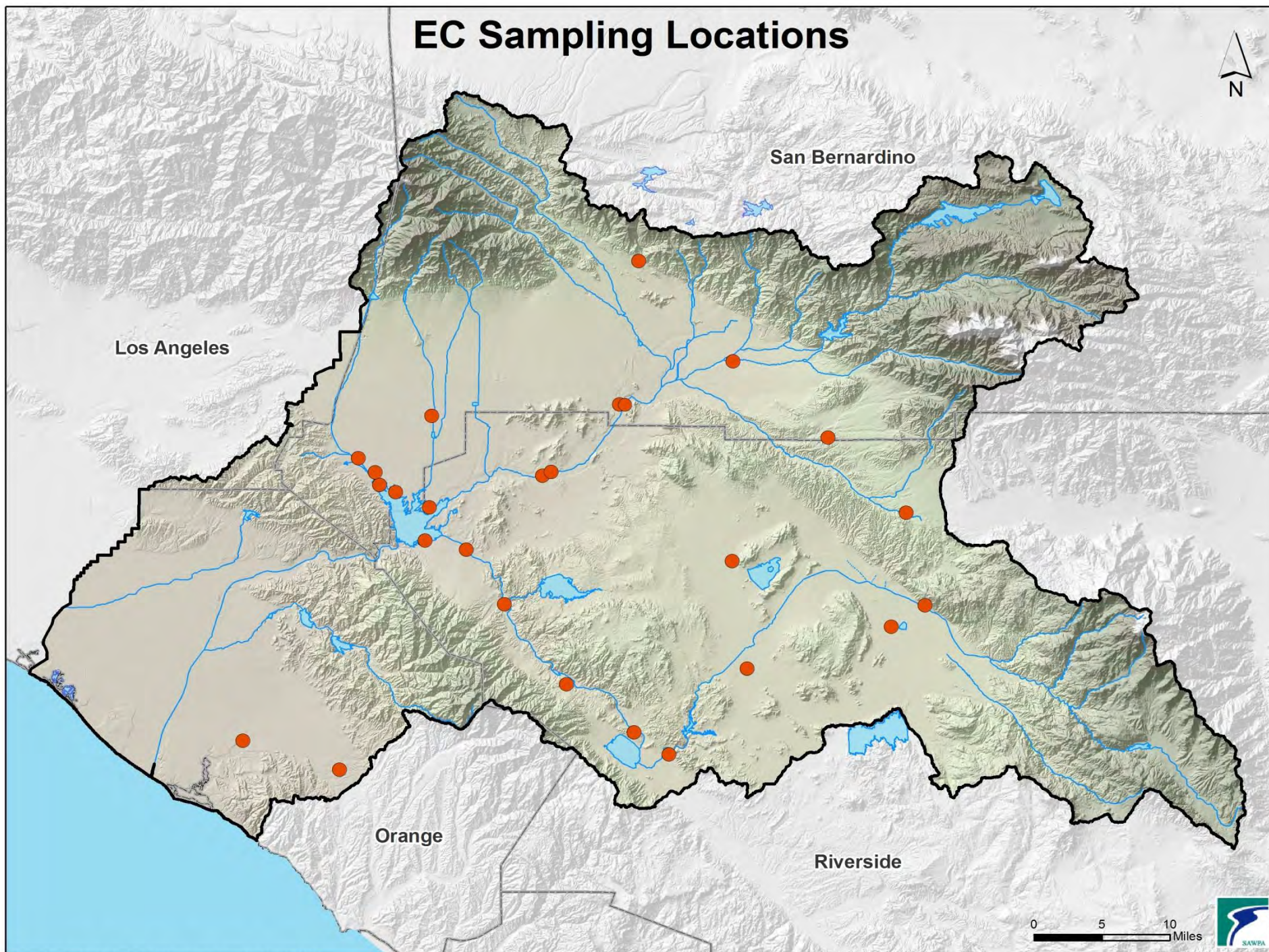
- Complies with Regional Board Resolution under Cooperative Agreement for Imported Water Recharge
- Completed 2010-2013 Voluntary Annual Sampling reports for emerging constituents
- Implements safe tap water public outreach program based on SAWPA commission direction to respond to Environmental Working Group misinformation

Benefits

- Assisted state and federal agencies in determining most effective measuring and detection practices
- Avoided need to conduct long term EC monitoring costs on 100s of other ECs
- Watershed evaluation of ECs helped frame discussion on ECs at State level to our benefit
- Corrects misinformed media exposure through outreach



EC Sampling Locations



EC Sampling Program conducted from 2010-2013

Table 1: Summary of Results for 26 Samples Analyzed in 2013

Compound	Primary Use	Frequency of Detection	Reported Range ²	Common Dose
Caffeine	Food Additive	42% (11 of 26)	ND – 0.000407 mg/L	100 mg
DEET ³	Insecticide	81% (21 of 26)	ND – 0.000270 mg/L	270 mg
17 β Estradiol	Natural Hormone	0% (0 of 26)	Never Detected	1 mg
Gemfibrozil	Anti-cholesterol	31% (8 of 26)	ND – 0.002000 mg/L	600 mg
Iopromide	Xray Contrast Agent	58% (15 of 26)	ND – 0.000680 mg/L	500 mg
Sucralose	Artificial Sweetener	100% (26 of 26)	0.000670 - 0.100000 mg/L	5,000 mg
Triclosan	Antiseptic	58% (15 of 26)	ND – 0.001000 mg/L	1 mg

Note: "mg/L" = milligram per Liter; 1 mg/L is one part per million. "ND" = Not Detected.

One part per trillion (ppt) = one single drop in about 20 Olympic sized swimming pools

What's a nanogram?

A nanogram is one one-billionth of a gram. In liquid, nanograms are measured by parts per trillion (ppt).

An olympic-sized swimming pool holds at least 660,000 U.S. gallons of water:

6 feet,
7 inches
(2 meters)

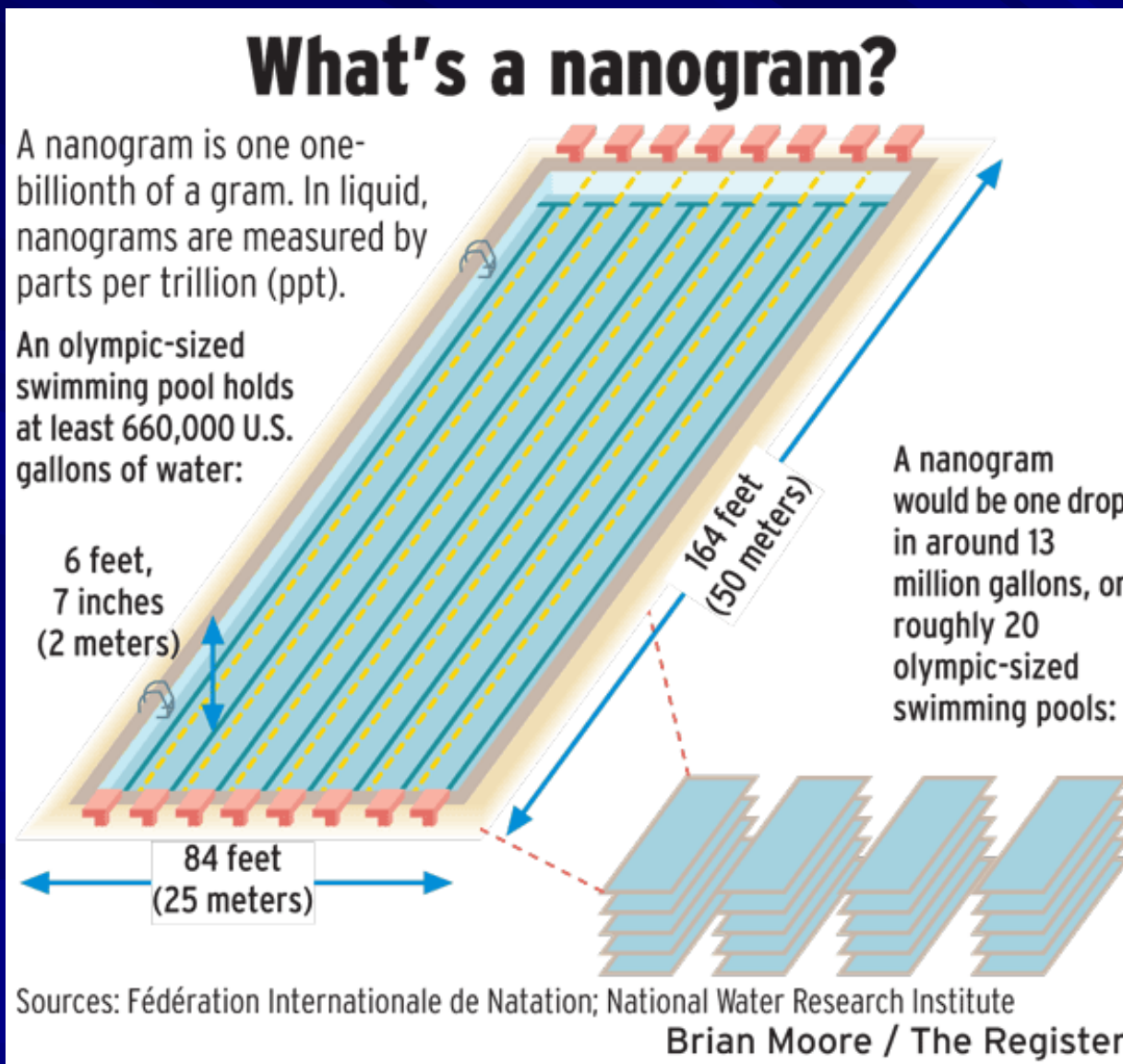
84 feet
(25 meters)

164 feet
(50 meters)

A nanogram would be one drop in around 13 million gallons, or roughly 20 olympic-sized swimming pools:

Sources: Fédération Internationale de Natation; National Water Research Institute

Brian Moore / The Register





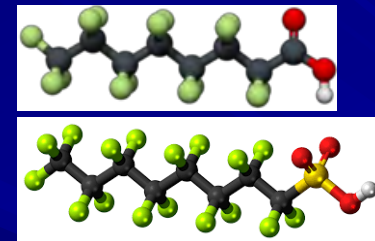
“The concentrations we’re seeing are many, many times lower than the normal dosage of these particular drugs,” said Kurt Berchtold, former executive officer of the Santa Ana Regional Water Quality Control Board. “So we certainly don’t think there is any potential for human effects due to this.”

Kurt Berchtold, Executive Officer, 12/9/10
Upon sharing EC Sampling Results with
Santa Ana Regional Water Quality
Control Board



New Emerging Constituents of Concern - PFOA and PFOS

- Per- and polyfluoroalkyl substances (PFAS) or alkyl acids (PFAAs)
 - **PFOA** = Perfluorooctanoic Acid ($C_8HF_{15}O_2$)
 - **PFOS** = Perfluorooctane Sulfonate ($C_8HF_{17}O_3S$)
- Key ingredients/byproducts in the production of:
 - Consumer Products: Teflon, Scotchgard, Stainmaster, Gore-Tex
 - Polymers for aircraft and electronics
 - Paper packaging and wrappers for food (e.g., microwave popcorn bags)
 - Fire fighting foams
- Initially developed in 1940s
- PFOA & PFOS phase out in USA began in 2000s



PFOA & PFOS Properties

- Very stable, resistant to degradation
- Resistant to water, grease, and stains (lipophobic)
- Newer & more sensitive laboratory technology has revealed widespread occurrence in environment
- Found in groundwater near manufacturing sites and military bases



Recent Regulations Regarding PFOA and PFOS

- Since 2016, US EPA has established a lifetime Health Advisory Level for PFOA + PFOS of 70ng/L.
- July 2018: SWRCB Division of Drinking Water Releases Interim Drinking Water Notification Levels & Response Levels
 - Notification Levels (NL) → **PFOA = 14 ng/L; PFOS = 13 ng/L**
 - Response Level (RL) → **PFOA + PFOS = 70 ng/L (same as EPA HA)**
- Dec. 2018: SWRCB revised Recycled Water Policy to now require recycled water projects to analyze for PFOA & PFOS.
- State Board's Division of Drinking Water (formerly Dept. of Public Health) is requiring all public water supplies to test for PFOA & PFOS compounds.



OCWD Conducted Initial Testing for PFOA & PFOS (2013-2015)



- Within Orange County Water District service area,
 - 135 drinking water sites tested (e.g., wells, reservoirs, blending points)
 - 5 of 19 retailers had detections related to drinking water wells
 - Three retailers had one or more results > 70 ng/L 2016 EPA Health Advisory
- OCWD did not detect in their imported water sources or GWRS flows
- However, consistent detections > Notification Levels in Santa Ana River
 - Main river
 - Multiple WWTPs (POTW) discharges
 - Tributaries (e.g, Temescal Creek, Chino Creek)

Additional EC Sampling Need Response

- OCWD made 10/11/18 presentation to Santa Ana River Dischargers Association (SARDA) about PFOA & PFOS detections
- OCWD and SARDA informed Basin Monitoring Program Task Force which includes Regional Board staff of possible new EC sampling program need
- Report of planned voluntary PFAs and EC sampling by EC Program Task Force shared with SAWPA Commission on Dec. 18, 2018



EC Program Task Force – Next Sampling

- Sampling will be conducted week of Aug. 26-30
- Will include all PFAs and many past ECs sampled
- Sampling discharges from all upper watershed wastewater trmt facilities, river flows and imported water
- Paid for by sampling agencies, report paid for by past contributions of EC Program TF



Next Steps

- Water quality lab sampling results will be compiled in Sept. – Oct. 2019.
- Results will be analyzed and compiled for preparation of a sampling EC Program Task Force sampling report
- Report will be shared with the Santa Ana Regional Board and the SWRCB as objective data to support appropriate and science based regulations





PFAS, PFOA, and PFOS in Orange County

July 2, 2019

SAWPA Commission



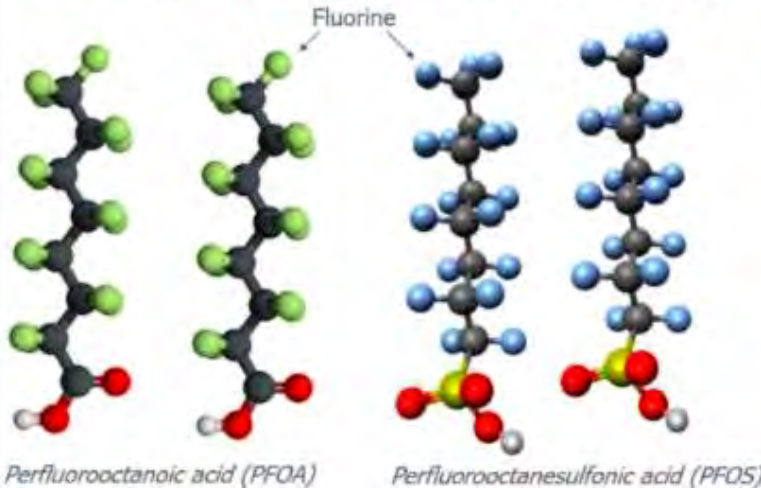
Outline

- Background on PFAS
- OCWD Groundwater Results
- Pilot Treatment Testing
- OCWD SAR and Discharger Testing
- Managing PFAS in SAR Watershed

WHAT ARE PFAS, PFOA & PFOS?

- PFAS = Per- and Polyfluoroalkyl Substances (family of 1000s of chemicals)
- PFOA = Perfluorooctanoic Acid ($C_8HF_{15}O_2$)
- PFOS = Perfluorooctane Sulfonate ($C_8HF_{17}O_3S$)

Per- and Polyfluoroalkyl Substances (PFAS)



A class of man-made chemicals

- Chains of carbon (C) atoms surrounded by fluorine (F) atoms
 - Water-repellent (hydrophobic)
 - Stable C-F bond
- Some PFAS include oxygen, hydrogen, sulfur and/or nitrogen atoms, creating a polar end



PFAS Use Across A Wide Range of Industries and Consumer Products





FDA: PFAS Occurrence in Food

FDA STATEMENT

Statement on FDA's scientific work to understand per- and polyfluoroalkyl substances (PFAS) in food, and findings from recent FDA surveys

[Share](#) [Tweet](#) [LinkedIn](#) [Email](#) [Print](#)

For Immediate Release: June 11, 2019

AP

FDA: Sampling finds toxic nonstick compounds in some food

By ELLEN KNICKMEYER, JOHN FLESHER and MICHAEL CASEY June 3, 2019

CNN

Health » Food | Fitness | Wellness | Parenting | Live Longer

Live TV U.S. Edition

FDA confirms PFAS chemicals are in the US food supply

By Nadia Kounang, CNN

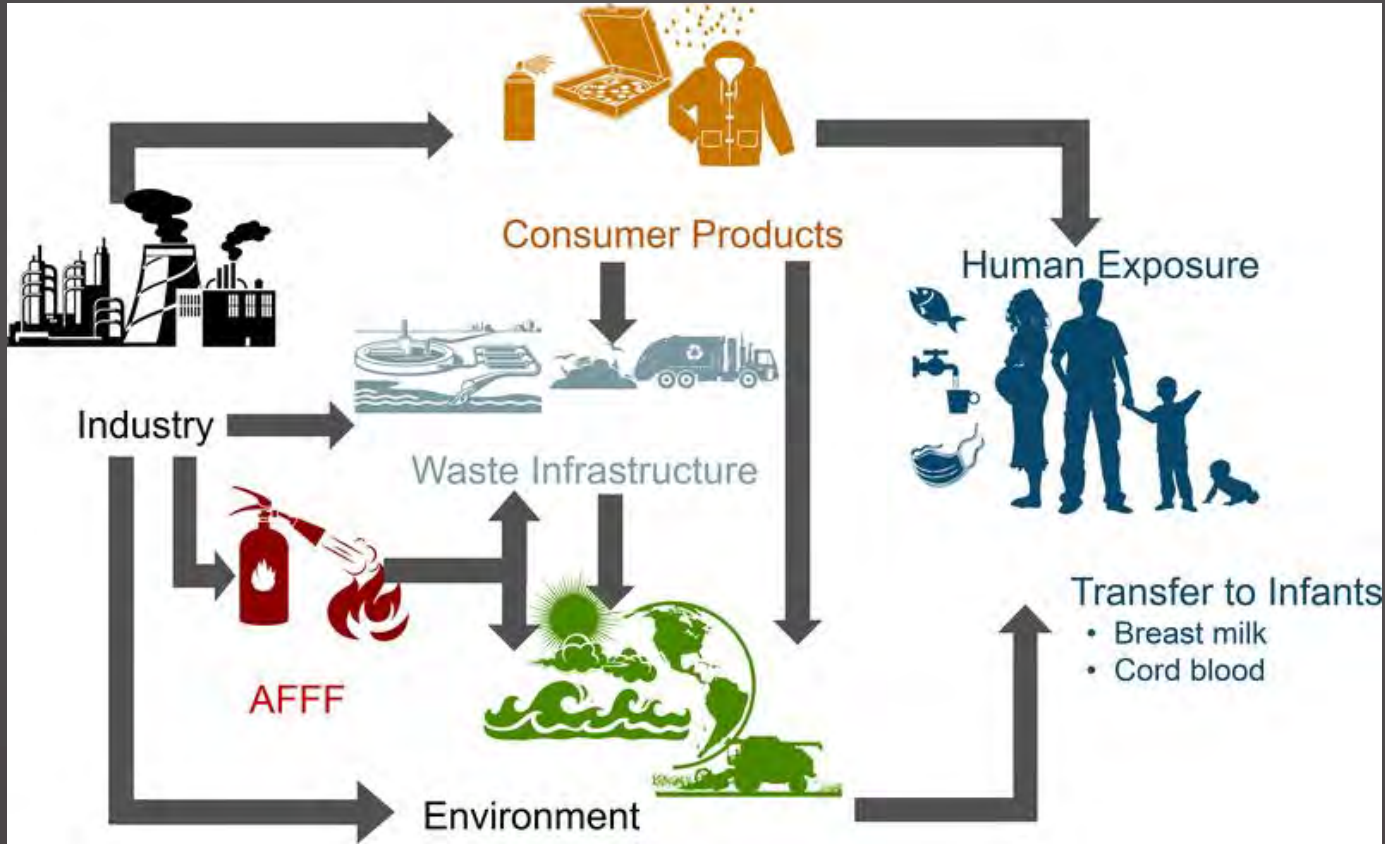
Updated 5:08 PM ET, Mon June 3, 2019



- Meats & seafood
- Produce irrigated with PFAS-impacted water
- Milk from dairy using feed grown with PFAS-impacted water



PFAS Exposure Pathways



Summary of Current EPA & CA Drinking Water Guidance

Agency	Type	Value	Description
USEPA	Lifetime Health Advisory (2016)	70 ng/L PFOA + PFOS	Non-enforceable. Recommends notifying local regulators and consumers, removing source, blending, or treatment
CA DDW	Interim Response Level (2018)	70 ng/L PFOA + PFOS	Non-enforceable. Recommends taking source out of service.
CA DDW	Interim Notification Level (2018)	PFOA = 14 ng/L PFOS = 13 ng/L	Non-enforceable. <u>Can serve, but must notify governing body</u> (city, county, board); recommends notifying consumers

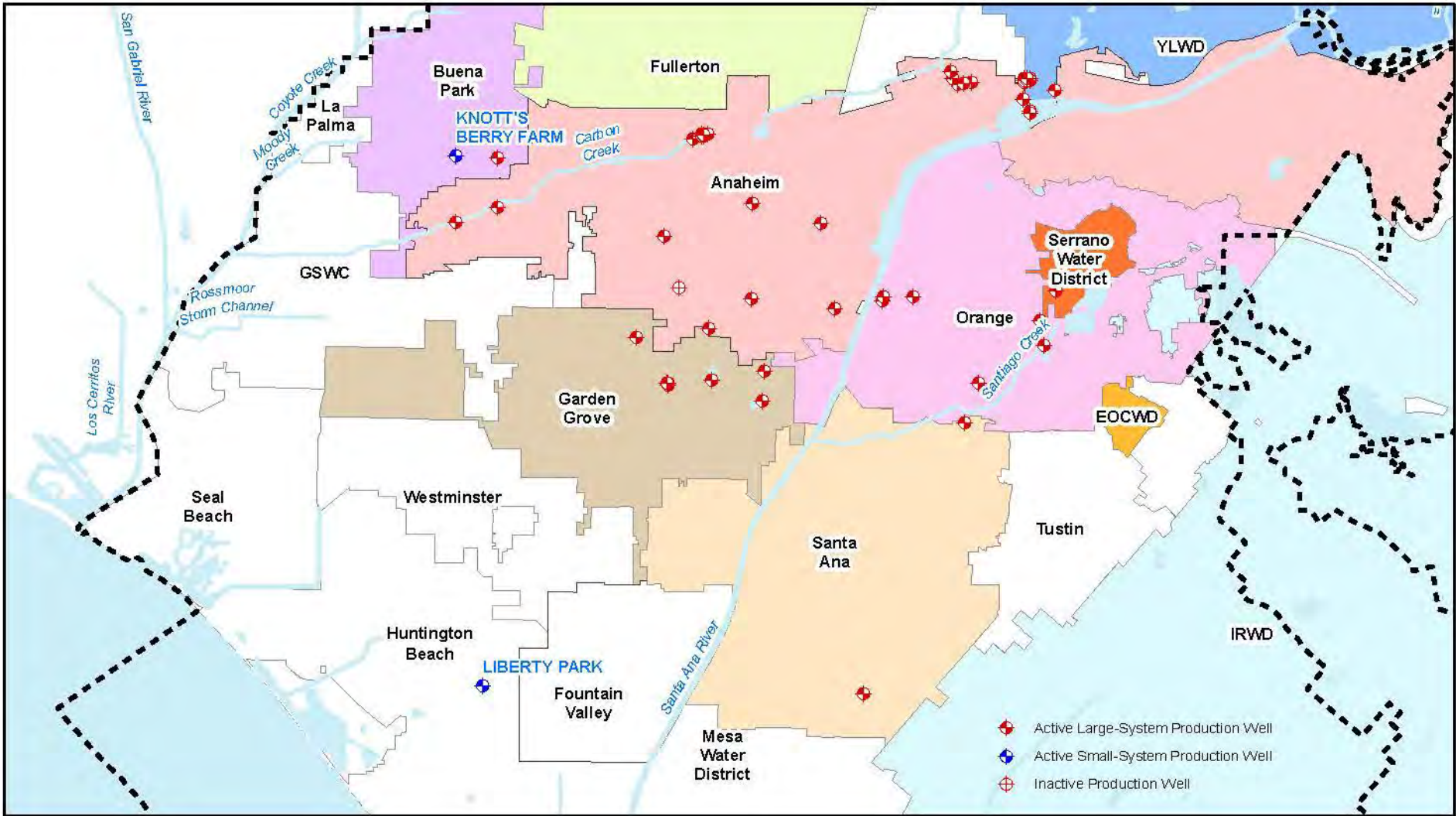
- Maximum Contaminant Level (MCL) is enforceable standard
 - No federal MCL (bills in Congress to put EPA on 2-year timetable)
 - No CA MCL (must first establish Public Health Goal [PHG]); multiple PFAS grouping?
- Some states have advisory values and proposed MCLs



Orange County Recent Groundwater Testing

12 OCWD Producers (retailers) Received Testing Orders in March 2019

Producer	# of Wells in Order	Reason(s)
Anaheim	15	Near UCMR3 detection or Landfill
Buena Park	1	Nearby Landfill
East Orange County Water District	2	Nearby UCMR3 detection
City of Fullerton	5	Nearby UCMR3 detection
City of Garden Grove	7	Nearby UCMR3 detection
Irvine Ranch Water District	2	Nearby UCMR3 detection or Airport
Knotts Berry Farm	1	Nearby Landfill
Liberty Park Water Association	1	Nearby Landfill
City of Orange	6	Nearby UCMR3 detection
City of Santa Ana	1	Nearby UCMR3 detection
Serrano Water District	1	Nearby UCMR3 detection
Yorba Linda Water District	11	Nearby UCMR3 detection
Total	53	-



Buena Park

Fullerton

YLWD

KNOTT'S BERRY FARM

Anaheim

Serrano Water District

GSWC

Orange

EOCWD

Garden Grove

Seal Beach

Westminster

Tustin

Santa Ana

IRWD

Huntington Beach

LIBERTY PARK

Fountain Valley

Mesa Water District

- ◆ Active Large-System Production Well
- ◆ Active Small-System Production Well
- ◆ Inactive Production Well

OCWD Laboratory performing testing

- Only public agency lab in CA with PFAS certification (EPA 537 Rev 1.1)
- Analysis and data reporting takes 2-3 weeks
- Strict sample collection & handling guidelines
 - No new or unwashed clothing
 - No pre-packaged food, fast food wrappers, or foil
 - No water proof paper or markers



9 OCWD Producers with one or more initial results greater than DDW Notification Levels for PFOA or PFOS

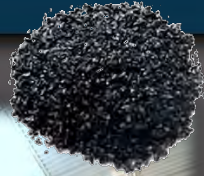
Producer
Anaheim
East Orange County Water District
City of Fullerton
City of Garden Grove
Irvine Ranch Water District
City of Orange
City of Santa Ana
Serrano Water District
Yorba Linda Water District

Results consistent with OCWD monitoring well results downgradient of recharge area

Orange County Governing Body Notifications

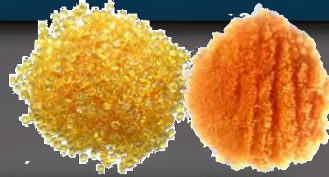
- 30 days to notify “Governing Body” after receiving result >NL
- Notifications status
 - **Sent out:** Yorba Linda Water District, City of Fullerton, City of Anaheim
 - **Pending:** Orange, EOCWD, Serrano, IRWD, Santa Ana, Garden Grove
- If well/source > **Response Level**
 - DDW recommends to stop serving
 - If continue to serve, DDW recommends extensive monitoring + public notification

PFAS Treatment Technologies



Carbon Adsorption:
granular activated
carbon (GAC)

- More conventional treatment, site specific, WQ factors in, footprint area also



Ion Exchange
(IX) resin



Reverse Osmosis or
Nanofiltration
(RO or NF)

- Higher capital cost, concentrate disposal



OCWD Field Pilot Testing

- Pilot test skid delivery in July
- Pilot will assess GAC + IX
- Complimentary lab bench-scale testing of GAC and NF
- Will assess multiple technologies and local impacted groundwaters
- Goal: inform & accelerate local retail agencies potential future treatment decisions





OCWD Groundwater Recharge Supply Testing



GWRS & MWD OC-28 results

- GWRS
 - OCSD Secondary Effluent = 25 – 38 ng/L PFOA + PFOS
 - GWRS Final Product = Not detected (ND)
 - Reverse Osmosis = effective treatment
- MWD OC-28: Not detected for PFOA & PFOS
- Other MWD data shows non detect for PFOA & PFOS
- Continued regular monitoring

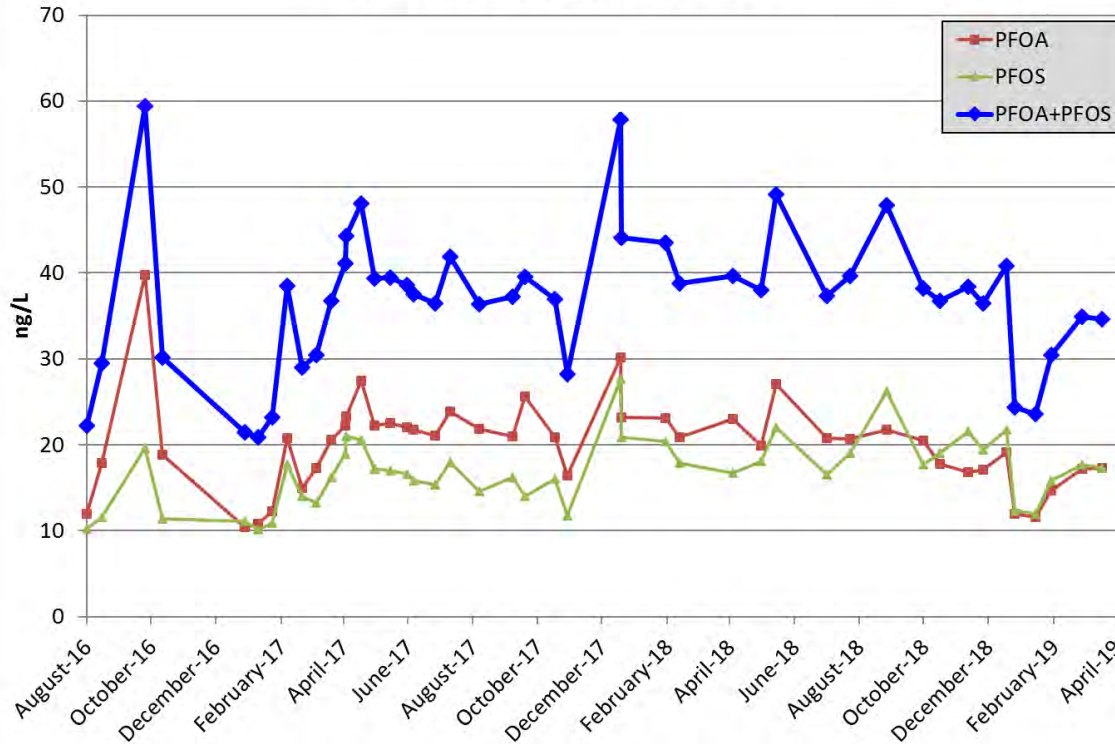


SAR Imperial Highway is key sample location, represents “headworks” of OCWD SAR recharge system



Santa Ana River at Imperial Hwy

SAR-IMPERIAL-01
PFOA, PFOS, PFOA+PFOS RESULTS



Aug 2016 – Present

Averages (ng/L)

PFOA: 20

PFOS: 17

PFOA+PFOS: 37

Min / Max (ng/L)

PFOA: 10 / 40

PFOS: 10 / 28

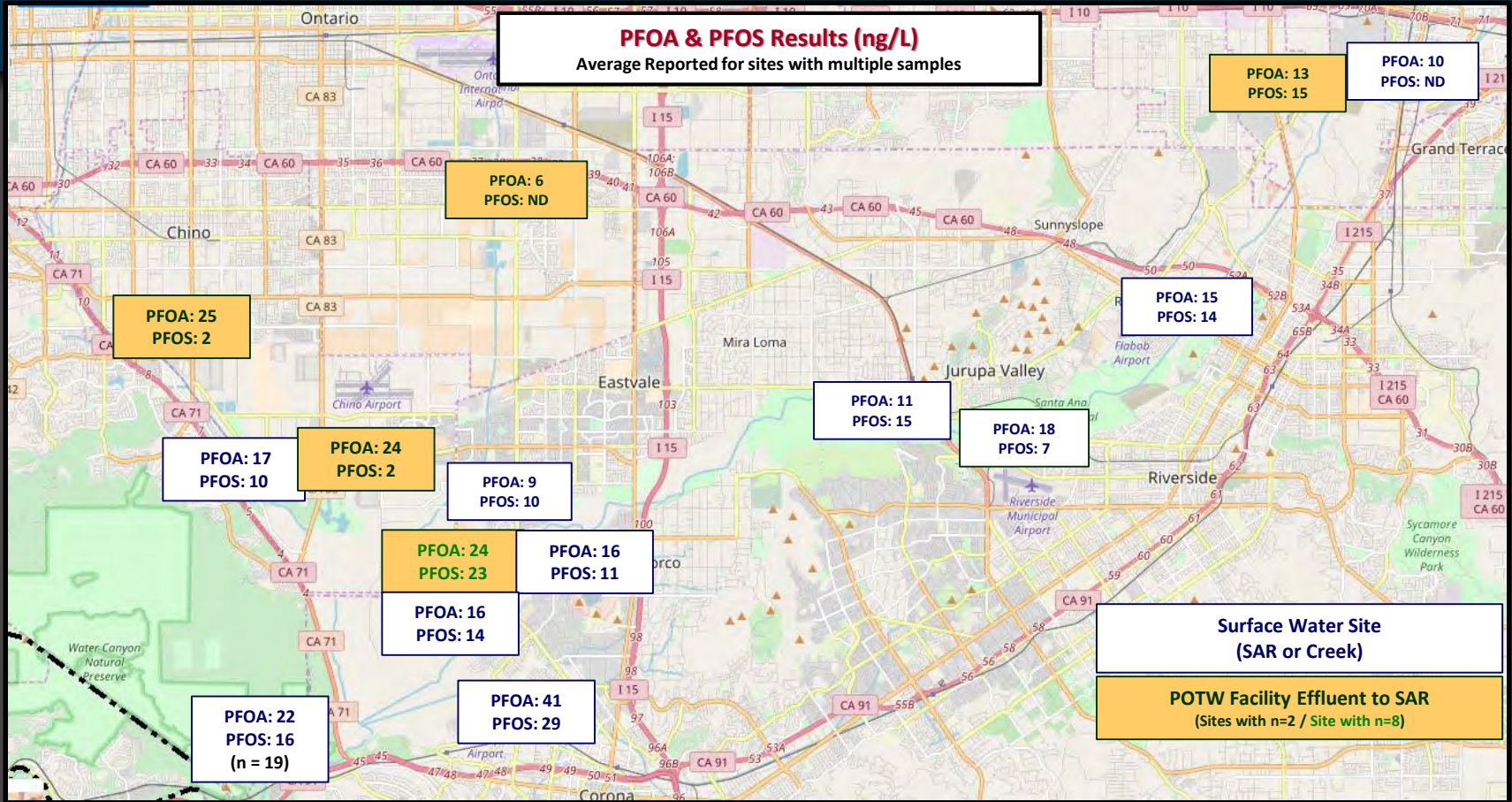
PFOA+PFOS: 21 / 59



Cooperative SAR Upstream Discharger Testing

- Reached out to 5 different SAR wastewater discharger sites in 2017
 - **Inland Empire Utilities Agency (IEUA):** CCWRF, RP1/RP4, RP5 Plants
 - **Western Municipal Water District (WMWD):** WRCRWA Plant
 - **San Bernardino Municipal Water Dept (SBMWD):** RIX Plant
- 2 coordinated monitoring events at all 5 sites in 2017 & 2018
- Provided data back to each cooperating agency
- Shared results with Regional Board regulators and SARDA in Fall 2018

Upper SAR Watershed Monitoring





Occurrence of PFAS compounds in conventionally treated wastewater is well-established in literature

Search

Filter search text / D

Environ. Sci. Technol.



Quantitative Determination of Fluorinated Alkyl Substances by Large-Volume-Injection Liquid Chromatography Tandem Mass Spectrometry – Characterization of Municipal Wastewaters

Melissa M. Schultz[†], Douglas F. Barofsky[†], and Jennifer A. Field^{*††}

Search

Enter search text / DO

Environ. Sci. Technol.



Detection of Poly- and Perfluoroalkyl Substances (PFASs) in U.S. Drinking Water Linked to Industrial Sites, Military Fire Training Areas, and Wastewater Treatment Plants

Xindi C. Hu^{††}, David Q. Andrews[§], Andrew B. Lindstrom[‡], Thomas A. Bruton[†], Laurel A. Schaefer[¶], Philippe Grandjean[†], Rainer Lohmann[®], Courtney C. Carignan[†], Arlene Blum^{‡ V}, Simona A. Balan^{*}, Christopher P. Higgins^{*}, and Elsie M. Sunderland^{††}



Journal
Journal of Environmental Science and Health, Part A
Toxic/Hazardous Substances and Environmental Engineering
Volume 44, 2009 - Issue 12

[Submit an article](#) [Journal homepage](#)

Enter keywords, authors, DOI etc.



Contents lists available at ScienceDirect

Chemosphere

journal homepage: www.elsevier.com/locate/chemosphere



1,596

Views

147

Crossref citations

to date

9

Attributes

ARTICLES

Perfluoroalkyl sulfonic and carboxylic acids: A critical review of physicochemical properties, levels and patterns in waters and wastewaters, and treatment methods

Sierra Rayne & Kaya Forest

Pages 1145-1199 | Received 05 May 2009, Published online: 04 Sep 2009

[Download citation](#) <https://doi.org/10.1080/10934520903139811>

Perfluorochemicals in water reuse

Megan H. Plumlee^a, Jeannine Larabee^b, Martin Reinhard^{a,*}

^aDepartment of Civil and Environmental Engineering, Yang & Yama

^bSanta Clara Valley Water District, 5750 Almaden Expressway, San



Letter
pubs.acs.org/journal/estlc

Legacy and Emerging Perfluoroalkyl Substances Are Important Drinking Water Contaminants in the Cape Fear River Watershed of North Carolina

Mei Sun,^{*†‡§¶} Elisa Arevalo,[§] Mark Strynar,[§] Andrew Lindstrom,[§] Michael Richardson,^{||} Ben Kearns,^{||} Adam Pickett,[‡] Chris Smith,[#] and Detlef R. U. Knappe[‡]



July 8: Possible reduction to DDW Notification & Response Levels

- Based OEHHA review of recent NTP rodent study
- “Lowest observed effect”/One-in-One-million cancer risk estimate
 - PFOA = 0.1 ng/L (pancreatic cancer)
 - POFS = 0.4 ng/L

Standard	PFAS Compound	Current	Proposed	Basis
Notification Level	PFOA	14 ng/L	5.1 ng/L	Analytical Detection Limit
Notification Level	PFOS	13 ng/L	6.5 ng/L	Analytical Detection Limit
Response Level	PFOA	70 ppt combined	10 ng/L	100x 1-in-1-million cancer risk
Response Level	PFOS		40 ng/L	100x 1-in-1-million cancer risk



Effects of lowering DDW Response Level

- Two wells in OCWD service above current 70 ng/L PFOA + PFOS Response Level
- Reducing Response Level to PFOA = 10 ppt and PFOS = 40 ppt
 - 39 of 51 wells tested under Monitoring Orders will exceed RL in OCWD area
 - Project ~71 out of ~200 OCWD area wells would exceed (~100,000 acre-ft of annual pumping)
- **Statewide**
 - ~300 of 600 wells with Monitoring orders have reported to state database
 - 65 results > 10 ppt PFOA
 - All first round results due July 10th
- **Agencies/areas likely affected:** Corona, Riverside, Elsinore Valley, Santa Clarita, Glendale, Desert Water Agency, Lathrop, Atascadero, Central Basin?



Meeting in Sacramento on July 3

- Parties involved
 - OCWD
 - Intertox
 - Santa Clarita Valley Water Agency
 - Cabinet Secretary: Jared Blumenfeld
 - State Board Chairman: Joaquin Esquivel
 - Deputy Director (DDW): Darrin Polhemus
 - OEHHA Director: Lauren Zeise, Ph.D
- Request
 - 90 day delay in establishing a new Response Level
 - Share OEHHA's review of NTP study + basis for recommendation
 - Prioritize setting PHG + MCL



Managing PFOA & PFOS in SAR

- Groundwater Recharge (**GWR**) is a designated beneficial use for SAR
- No current CA limits for PFOA & PFOS in SAR wastewater discharges
- Meetings with Regional Board & SARDA in Fall 2018
- Reestablished SAWPA EC Task Force in Jan-Feb 2019 to implement voluntary watershed CEC + PFAS testing in Aug
- Wastewater Dischargers (POTWs) statewide expected to receive PFAS testing orders in Fall 2019



Emerging Constituents Task Force

SOCIAL MEDIA SERVICES

YourSoCalTapWater.org

July 2018 – June 2019

dc

DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS



Emerging Constituent Program Task Force

21 signatories (including all SAWPA member agencies) to Task Force Agreement, but over 250 on email contact list:

- Water Wholesalers
- Water Retailers
- Wastewater Treatment Operators
- Regional Board Staff
- CDPH Staff
- USGS Staff
- Analytical Lab Staff
- NWRI Staff
- Environmental NGOs

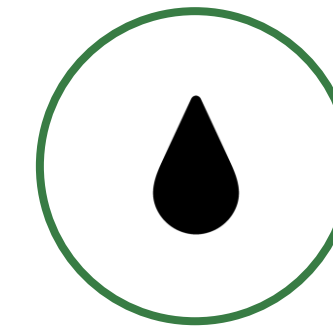
Emerging Constituent Program Task Force

Participating Task Force Agencies in Outreach

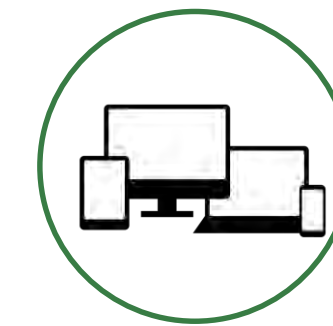


- Eastern Municipal Water District
- Inland Empire Utilities Agency
- City of Riverside
- Temescal Valley Water District
- Elsinore Valley Municipal Water District
- Irvine Ranch Water District
- Colton/San Bernardino Regional Tertiary Treatment and Wastewater Reclamation
- Jurupa Community Services District
- Yucaipa Valley Water District
- City of Corona
- City of Redlands
- City of Rialto
- Western Riverside Co Regional Wastewater Authority

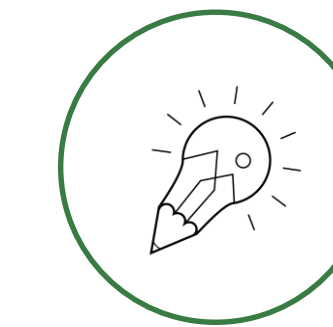
Emerging Constituent Task Force Public Outreach Benefits



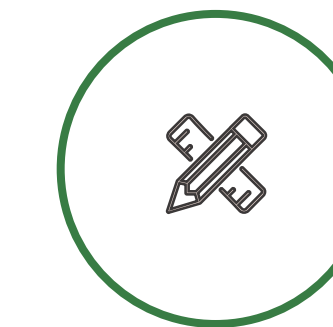
Build awareness about water-quality related issues



Share information on safety of local water supply



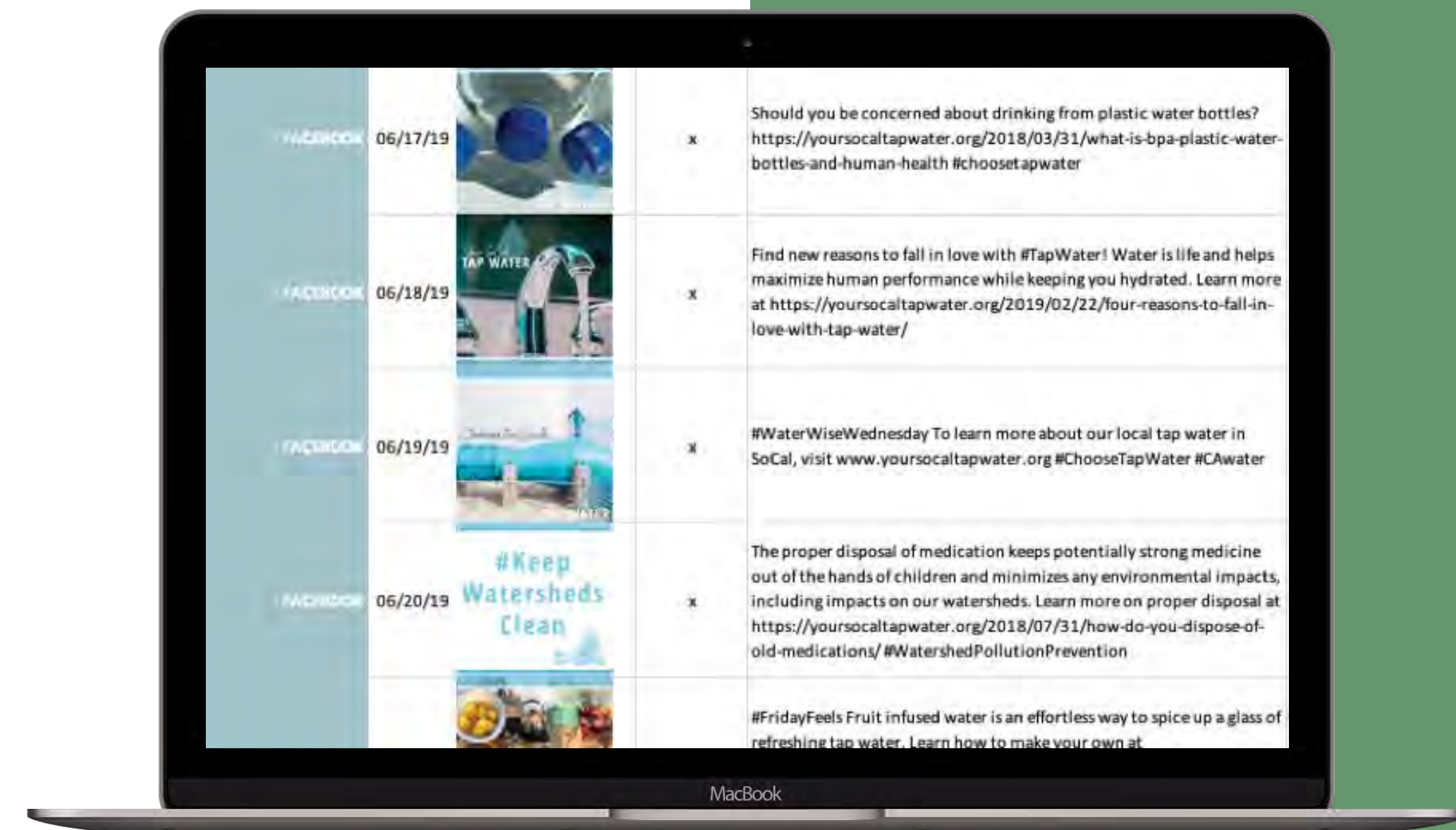
Correct misinformed media



Provide credible resources to share with customers

WEEKLY SOCIAL MEDIA PLANNING

- Weekly social media calendars
- Over 326 posts in 2018-2019
- Original posts, shares and retweets



dc

DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS



YourSoCalTapWater.org

BLOG

dc

DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS

BLOG POSTS

How do you Dispose of Old Medications?

July 2018

Is Trichloroethylene (TCE) in our Drinking Water?

August 2018

Lead Testing in Schools

September 2018

Careers in Water Treatment and Operations

October 2018

What is the Reuse of Wastewater for Indirect Drinking Water Use?

November 2018

Healthy Watersheds: Preventing Pollution

December 2018

From Rock to Shinning Rock: How Big Bear Got its Dam

January 2019

Four Reasons to Fall in Love with Water

February 2019

World Water Day 2019: Leaving No One Behind

March 2019

Santa Ana River Commemorates 50 Years of Collaboration

April 2019

Orange County is Setting the Pace for New Water Monitoring Standards

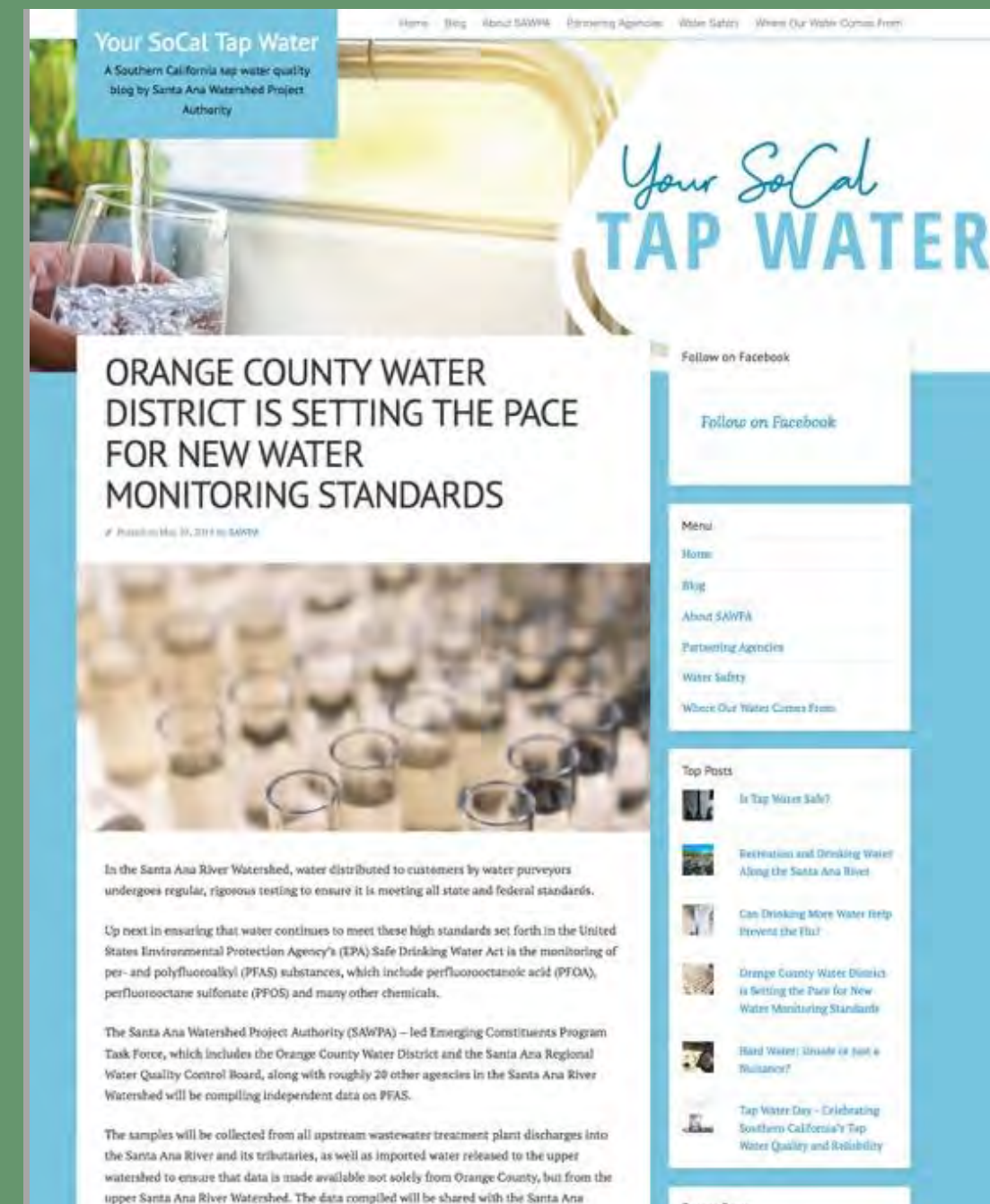
May 2019

Emerging Constituents Task Force

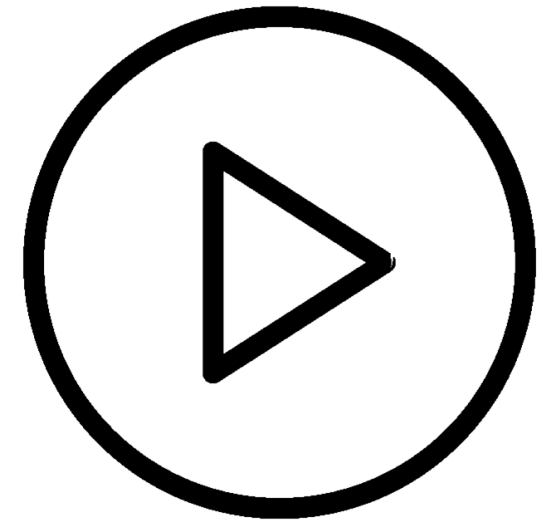
PENDING JUNE 2019

BLOG HIGHLIGHTS

- 7,658 Views
- 5,686 Visitors
- *Is Tap Water Safe?* post - 26,851 views
- Featured in Maven's Notebook
- Google search remains highest referrer



VIDEOS



Water Reservoirs



Lead Testing in Schools



Fall in Love with Tap Water





@YourSoCalTapWater

FACEBOOK



DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS

FACEBOOK HIGHLIGHTS

- Reach and engagement: 12-month high in March 2019
- Broke 1,000 followers threshold
- Increase in referrals from FB to blog

Your So Cal Tap Water
Published by Liselle DeGrave [?] · March 8 ·

What's buried beneath Perris Hill in San Bernardino?
<https://yoursocaltapwater.org/.../hidden-in-a-hill-perris-hi.../>

Performance for Your Post
5,276 People Reached
253 Reactions, Comments & Shares

106 Like	49 On Post	57 On Shares
3 Love	2 On Post	1 On Shares
2 Haha	0 On Post	2 On Shares
34 Wow	16 On Post	18 On Shares
1 Angry	0 On Post	1 On Shares
31 Comments	5 On Post	26 On Shares
76 Shares	54 On Post	22 On Shares

650 Post Clicks
91 Photo Views | 323 Link Clicks | 236 Other Clicks

NEGATIVE FEEDBACK
1 Hide Post
0 Report as Spam

Insights activity is reported in the Pacific time zone. Ads activity is reported in the time zone of your ad account.

Your So Cal Tap Water
Published by Liselle DeGrave [?] · February 20 ·

That sure is a lot of #snowpack!

Performance for Your Post
3,145 People Reached
56 Reactions, Comments & Shares

33 Like	33 On Post	0 On Shares
3 Love	3 On Post	0 On Shares
6 Wow	6 On Post	0 On Shares
7 Comments	7 On Post	0 On Shares
7 Shares	6 On Post	1 On Shares

266 Post Clicks
0 Photo Views | 252 Link Clicks | 14 Other Clicks

NEGATIVE FEEDBACK
0 Hide Post
0 Report as Spam
0 Hide All Posts
0 Unlike Page

Insights activity is reported in the Pacific time zone. Ads activity is reported in the time zone of your ad account.

Your So Cal Tap Water
Published by Liselle DeGrave [?] · May 20 at 12:02 PM ·

Have you ever noticed a large tank reservoir on hill? Inside that tank there are possibly millions of gallons of water inside waiting to travel through your city. <https://yoursocaltapwater.org/.../water-reservoirs-storing-w.../> #TapWater #CAWater

Performance for Your Post
1,078 People Reached
37 Reactions, Comments & Shares

28 Like	28 On Post	0 On Shares
1 Haha	1 On Post	0 On Shares
1 Wow	1 On Post	0 On Shares
3 Comments	2 On Post	1 On Shares
4 Shares	4 On Post	0 On Shares

10 Post Clicks
5 Photo Views | 5 Link Clicks | 0 Other Clicks

NEGATIVE FEEDBACK
0 Hide Post
0 Report as Spam
0 Hide All Posts
0 Unlike Page

Insights activity is reported in the Pacific time zone. Ads activity is reported in the time zone of your ad account.

Your So Cal Tap Water
Published by WordPress [?] · December 5, 2018 ·

The scarcity of available drinking (potable) water has forced water agencies to look for innovated ways of finding new sources of drinking water for its customers. Because new water can't be created, the concept of using recycled water is quickly becoming more common place. The California Agricultural Water Stewardship Initiative notes that recycled water projects have more than doubled since 1987 and continues to follow an upward trend. [698 more words]
<http://yoursocaltapwater.org/.../what-is-reuse-of-wastewater.../>

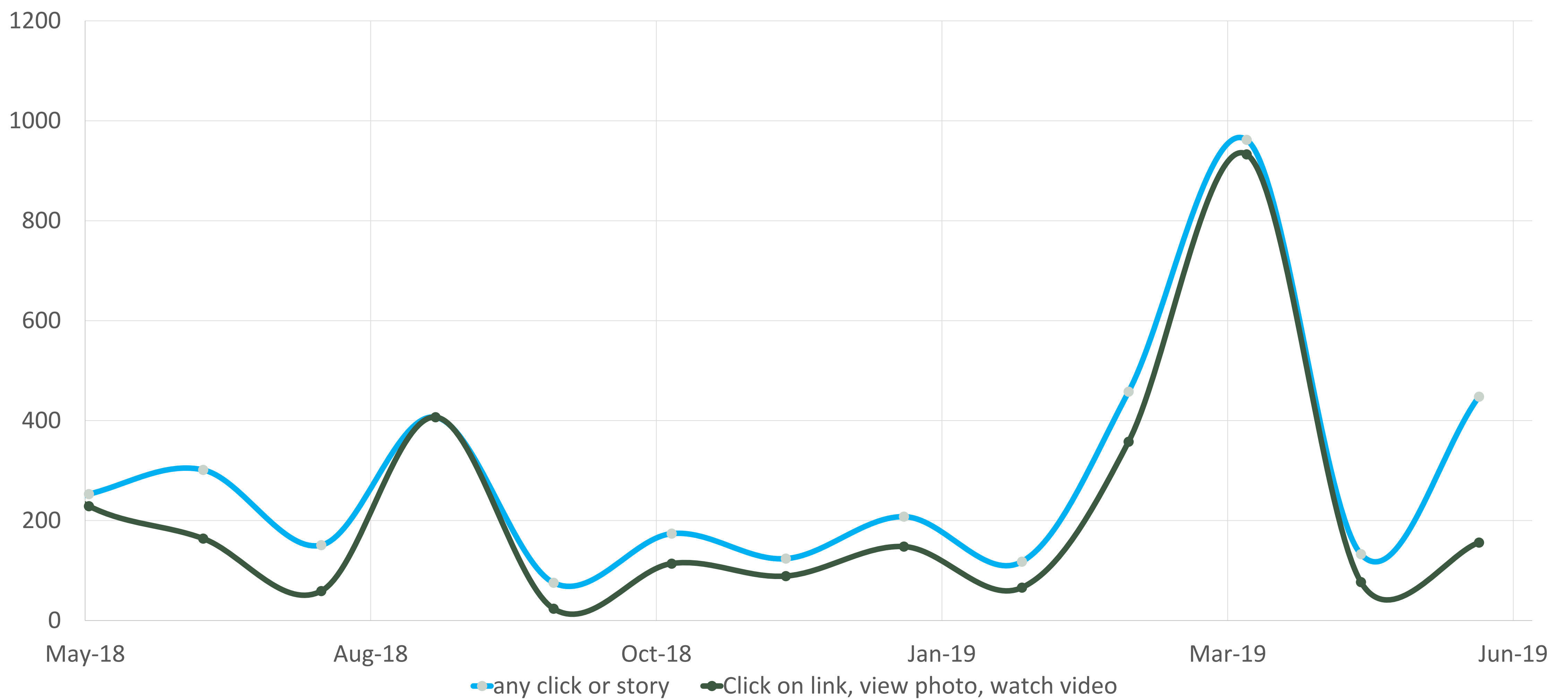
Performance for Your Post
2,912 People Reached
14 Reactions, Comments & Shares

3 Like	3 On Post	0 On Shares
1 Love	1 On Post	0 On Shares
2 Haha	2 On Post	0 On Shares
7 Comments	7 On Post	0 On Shares
1 Shares	1 On Post	0 On Shares

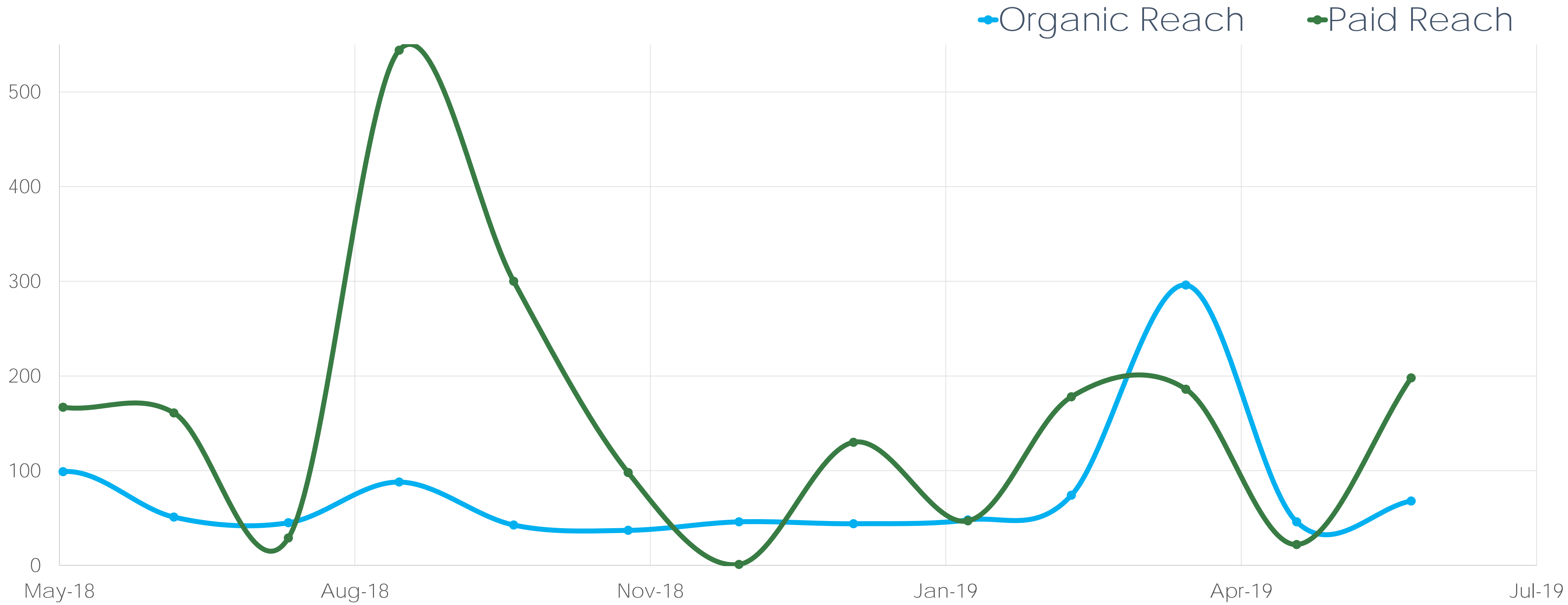
47 Post Clicks
0 Photo Views | 46 Link Clicks | 1 Other Clicks

NEGATIVE FEEDBACK
0 Hide Post
0 Report as Spam
0 Hide All Posts
0 Unlike Page

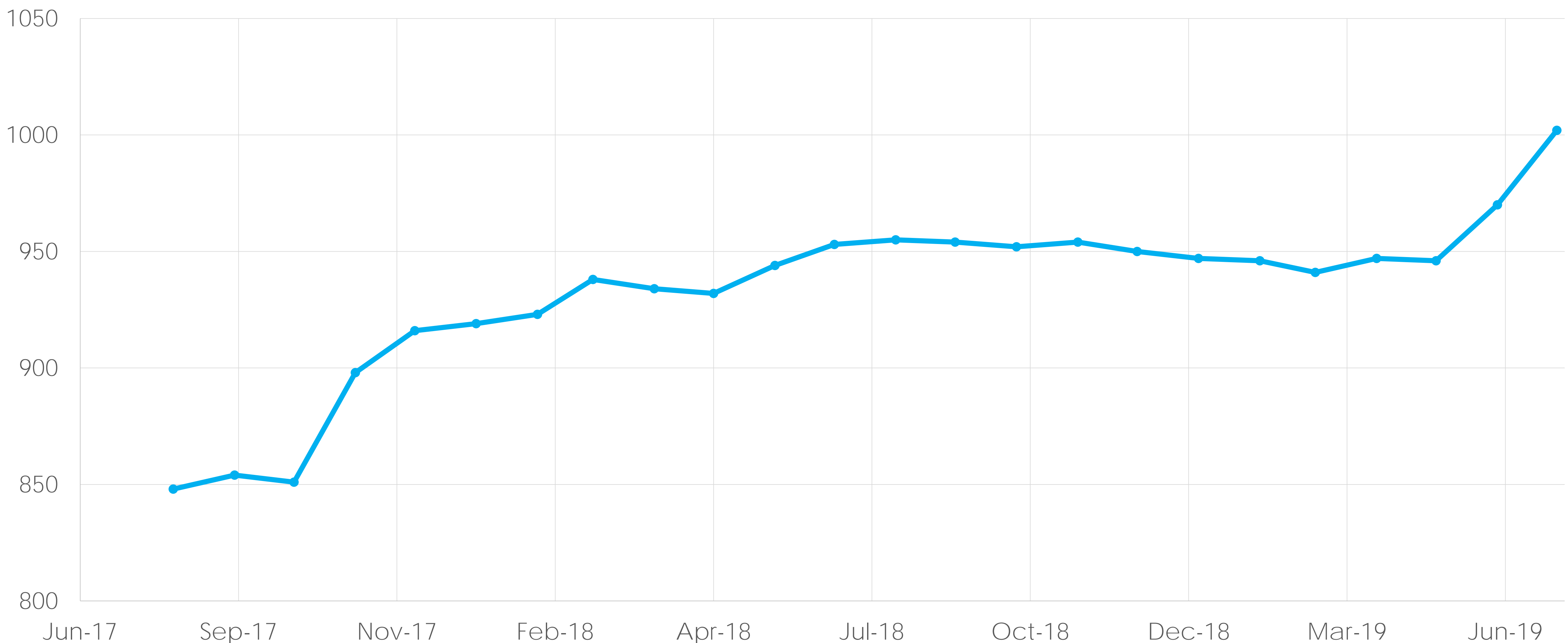
Insights activity is reported in the Pacific time zone. Ads activity is reported in the time zone of your ad account.



ENGAGEMENT



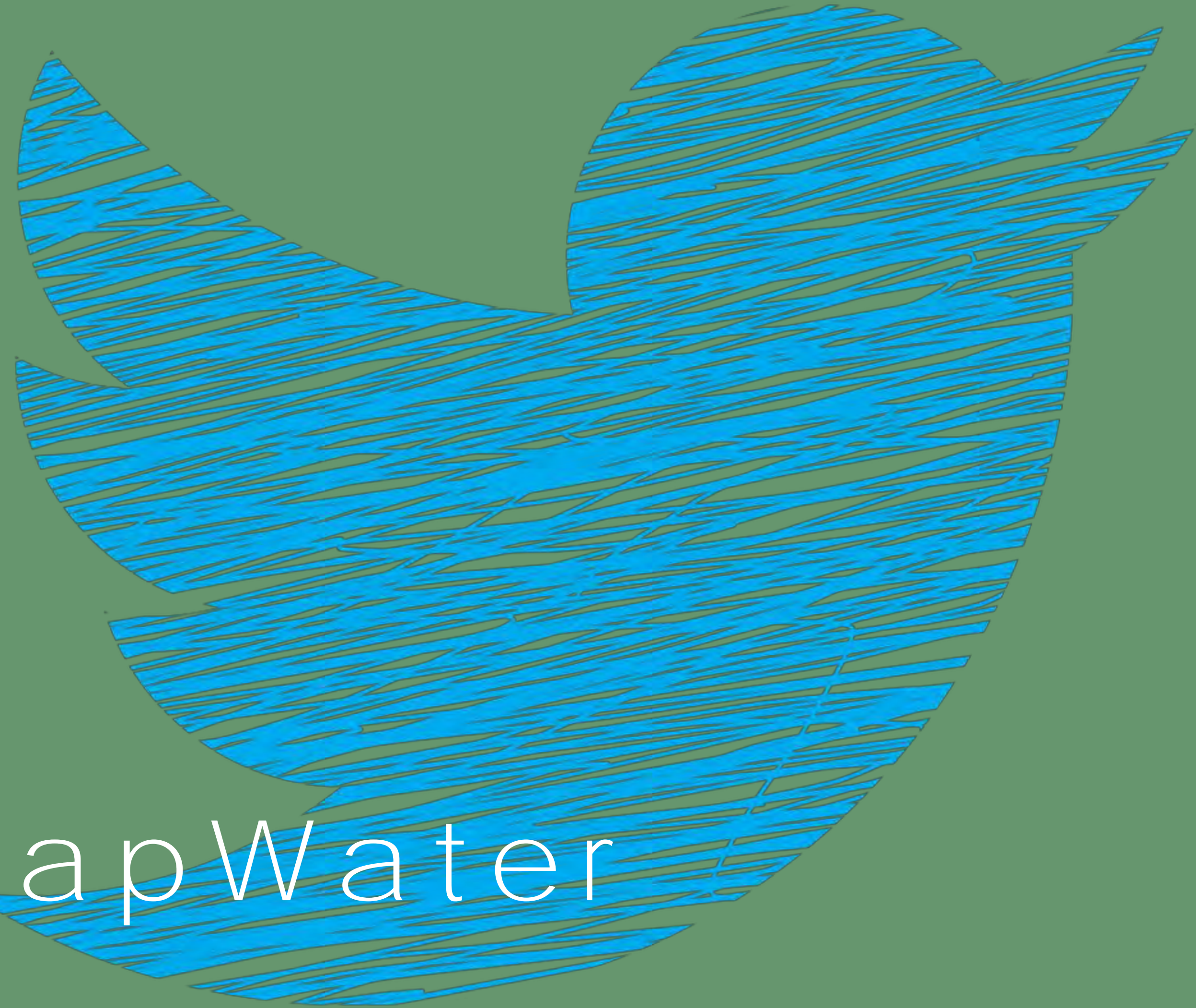
REACH



FOLLOWERS

<i>SoCalTapWater (2012):</i>	<i>1,002 followers</i>
EMWD (2009):	1,345 followers
IEUA (2013):	605 followers
OCWD (2009):	1,201 followers
SBVMWD (2019)	37 followers
WMWD (2010):	1,187 followers





@SoCalTapWater

TWITTER



DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS

TWITTER HIGHLIGHTS

- Averaged 13,458 impressions in 2018, 17,470 in 2019
- Followers all-time high of 1,135
- 4% increase since the previous year
- Notable followers: ACWA, Maven's Notebook, NGWA, MWD



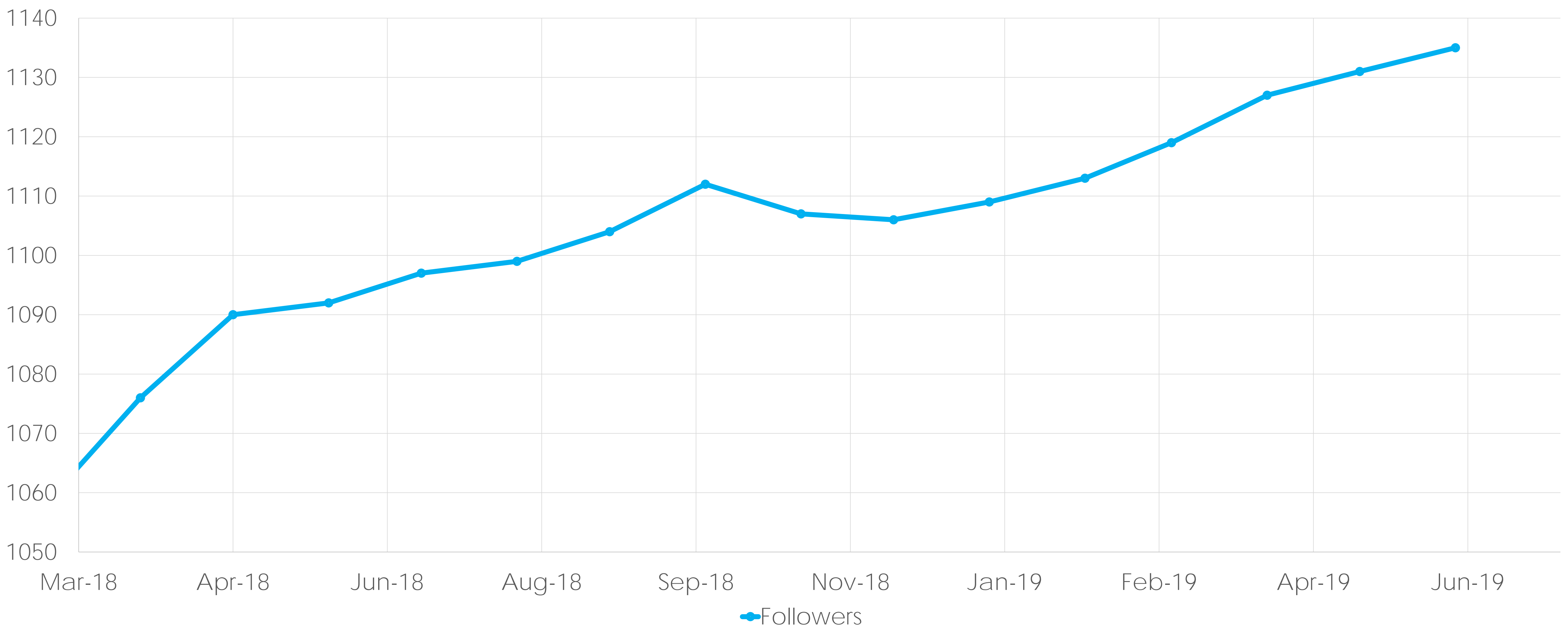
SoCal Tap Water @SoCalTapWater
#RecycledWater helps augment our **#CAWater** supply by increasing the availability of local sources and decreasing our reliance on imported sources. <http://ow.ly/I8Cy30nzLDg>
<pic.twitter.com/c3jU8VTcqM>

Impressions	6,913
Total engagements	1
Likes	1



SoCal Tap Water @SoCalTapWater
 How is wastewater reused for drinking water? Find out at <https://yoursocaltapwater.org/.../what-is-reuse-of-wastewater.../>
#WaterReuse
#GroundWaterReplenishment
<pic.twitter.com/pvbjBn8Kw0>

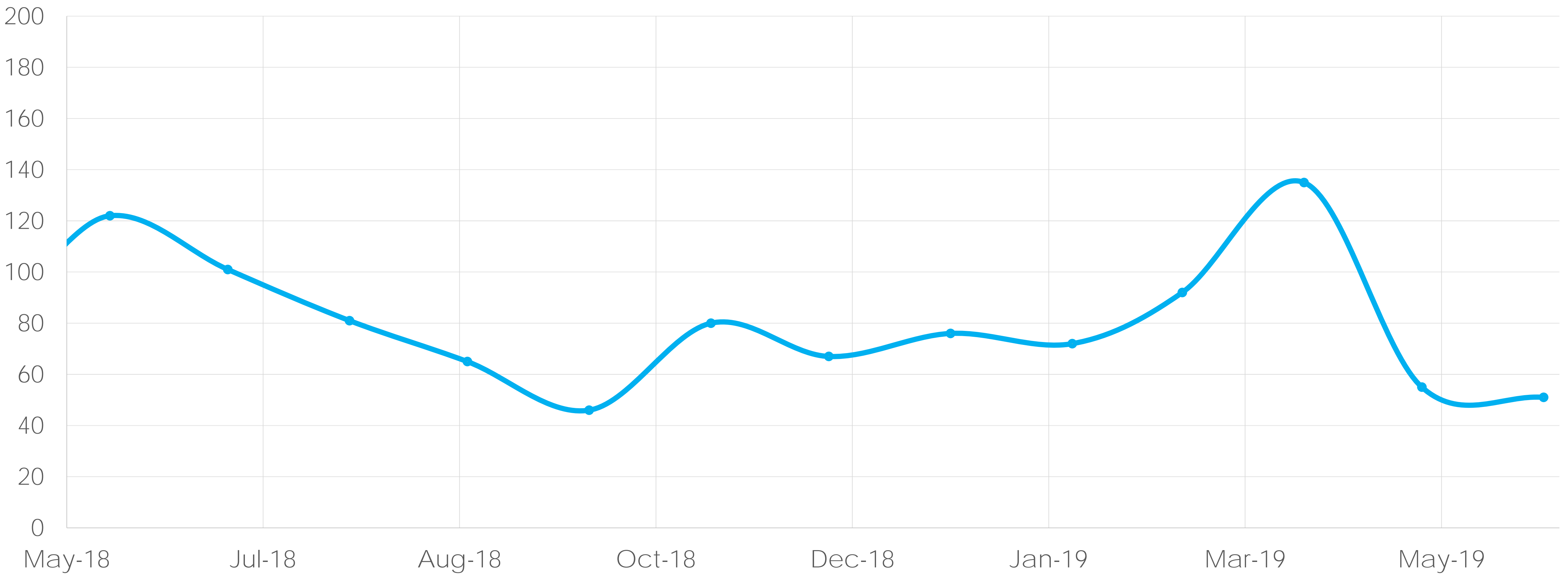
Impressions	10,035
Total engagements	1
Likes	1



FOLLOWERS



DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS



ENGAGEMENT

BRAND REFRESH



DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS

Your SoCal Tap Water

A Southern California tap water quality
blog by Santa Ana Watershed Project
Authority



Your SoCal TAP WATER

ORANGE COUNTY WATER DISTRICT IS SETTING THE PACE FOR NEW WATER MONITORING STANDARDS

✍️ Posted on May 29, 2019 By [SAWPA](#)

Follow on Facebook

Follow on Facebook

Menu

[Home](#)

[Blog](#)

[About SAW](#)

[Partnering](#)

Y o u r S o C a l T a p W a t e r . o r g
B L O G

facebook



Your So Cal Tap Water

@YourSoCalTapWater

Home

Posts

Videos

Photos

About

Community

Create a Page



Like Share Suggest Edits ...

Send Message

Posts



Your So Cal Tap Water

21 hrs · 🌐

Water is necessary for survival, hygiene, and to maintain our yards, but cities also utilize water supplies for everyday uses that benefit their community in ways we never think about. Learn more on how cities use water at <https://yoursocaltapwater.org/.../08/24/how-do-cities-use-wa.../> #CAWater #TapWater



ABOUT YOUR SO CAL TAP WATER

Our St

SAWDA

@ Y o u r S o C a l T a p W a t e

r

F A C E B O O K



Your SoCal TAP WATER

Your SoCal
TAP WATER

Tweets **3,738** Following **1,685** Followers **1,137** Likes **1,268** Lists **5**

Follow

SoCal Tap Water

@SoCalTapWater

Exploring the Santa Ana River Watershed and how safe water gets to your home every day. A Twitter feed by the Santa Ana Watershed Project Authority (SAWPA).


📍 Southern California

🌐 yoursocaltapwater.org

📅 Joined June 2012

📷 1,199 Photos and videos

Tweets **Tweets & replies** Media

 **SoCal Tap Water** @SoCalTapWater · 22h
Water is necessary for survival, hygiene, and to maintain our yards, but cities also utilize water supplies for everyday uses that benefit their community in ways we never think about. Learn more on how cities use water at yoursocaltapwater.org/2017/08/24/how... #CAWater #TapWater



New to Twitter?

Sign up now to get your own personalized timeline!

Sign up

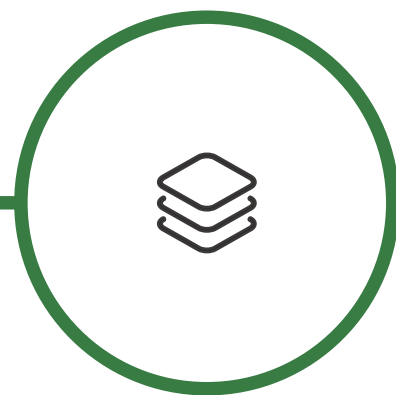
You may also like · Refresh

Cucamonga Vallev Water ...

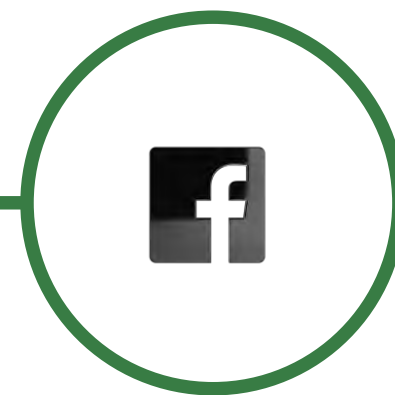
@ S o C a l T a p W a t e r
T W I T T E R

NEXT STEPS

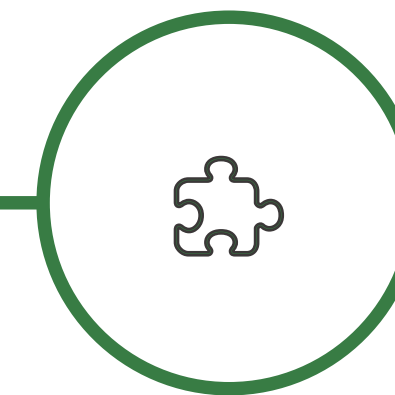
BLOG TOPIC
PLANNING



SOCIAL MEDIA
CALENDARING



EVALUATION



Q U E S T I O N S ?

dc

DEGRAVE
COMMUNICATIONS, INC.
PUBLIC RELATIONS



SAWPA

Accounting Reports Overview

- Treasurers' Report
- Executive Financial Report
- Cash Transactions Report
- Inter-Fund Borrowing
- Performance Indicators



Quarterly Reports

- Variance Report
- Financial Reports
 - **Brine Line Enterprise**
 - **All Other Funds**
- Expense Reports
 - **General Manager**
 - **Staff**



- Comprehensive Annual Financial Report (CAFR)
- Report on Audit



Monthly Reports



Treasurer's Report

- Required by California Government Code and Resolution 2019.6 SOIP Adoption
- Shows type of investment, date purchased, maturity date, investment cost, market value of investments, coupon rate
- Shows total cost and total market value of all investments
- Shows interest rate and total interest earned on investments
- Shows investment activity for the month
- Demonstrates the ability to meet expenditures during the next 6 months

Santa Ana Watershed Project Authority
INVESTMENT PORTFOLIO - MARKED TO MARKET - UNREALIZED GAINS & LOSSES
 May 31, 2019

SAWPA primarily maintains a "Buy and Hold" investment philosophy, with all investments held by US Bank via a third-party safekeeping contract.

Investment Type	Security Type	CUSIP	Dealer	Purchase Date	Maturity Date	Call Date (If appl)	Par Value	Yield To Maturity	Investment Cost	Market Value Current Month	Unrealized Gain / (Loss)	Coupon Rate	Interest Earned
Agency	FHLMC	3137EAEC9	WMS	09-16-16	08-12-21	No Call	\$ 1,000,000.00	1.335%	\$ 990,060.00	\$ 978,919.00	\$ (11,141)	1.125%	\$ 1,133.79
Agency	FHLMC	3137EADB2	WMS	04-17-17	01-13-22	No Call	\$ 500,000.00	2.375%	\$ 512,767.00	\$ 503,738.00	\$ (9,029)	2.375%	\$ 1,008.56
Agency	FHLB	313379EE5	WMS	05-26-15	06-14-19	No Call	\$ 500,000.00	1.420%	\$ 504,015.00	\$ 499,857.50	\$ (4,158)	1.625%	\$ 603.10
Agency	FHLB	313383HU8	WMS	06-16-16	06-12-20	No Call	\$ 1,000,000.00	1.080%	\$ 1,026,088.00	\$ 993,599.00	\$ (32,489)	1.750%	\$ 917.27
Agency	FHLB	313379Q69	WMS	12-14-17	06-10-22	No Call	\$ 1,000,000.00	2.150%	\$ 998,930.00	\$ 1,000,494.00	\$ 1,564	2.125%	\$ 1,826.12
Agency	FNMA	3135GDH55	WMS	12-28-15	12-28-20	No Call	\$ 1,000,000.00	1.830%	\$ 1,002,140.00	\$ 996,085.00	\$ (6,055)	1.875%	\$ 1,554.26
Agency	FNMA	3135GDF73	WMS	06-16-16	11-30-20	No Call	\$ 1,000,000.00	1.150%	\$ 1,015,157.00	\$ 990,107.00	\$ (25,050)	1.500%	\$ 976.72
Agency	USTN	912828WC	WMS	11-17-15	10-31-20	No Call	\$ 1,000,000.00	1.638%	\$ 1,005,312.50	\$ 995,508.00	\$ (9,805)	1.750%	\$ 1,391.04
Agency	USTN	912828G61	WMS	11-17-15	11-30-19	No Call	\$ 1,000,000.00	1.469%	\$ 1,001,210.94	\$ 995,586.00	\$ (5,625)	1.500%	\$ 1,247.59
Agency	USTN	912828L32	WMS	06-17-16	08-31-20	No Call	\$ 500,000.00	1.030%	\$ 507,070.31	\$ 495,351.50	\$ (11,719)	1.375%	\$ 437.53
Agency	USTN	912828L65	WMS	06-16-16	09-30-20	No Call	\$ 500,000.00	1.041%	\$ 506,992.19	\$ 495,176.00	\$ (11,816)	1.375%	\$ 441.95
Agency	USTN	912828L99	WMS	06-16-16	10-31-20	No Call	\$ 500,000.00	1.051%	\$ 506,914.06	\$ 495,176.00	\$ (11,738)	1.375%	\$ 446.10
Agency	USTN	912828S76	WMS	12-14-17	07-31-21	No Call	\$ 1,000,000.00	2.013%	\$ 969,062.50	\$ 982,773.00	\$ 13,711	1.125%	\$ 1,709.51
CORP	Apple Inc	037833AK6	WMS	10-15-18	05-03-23	No Call	\$ 500,000.00	3.560%	\$ 479,898.50	\$ 497,524.50	\$ 17,696	2.400%	\$ 1,426.86
CORP	Toyota Motor Corp Credit	89236TFNO	WMS	10-15-18	09-20-23	No Call	\$ 500,000.00	3.550%	\$ 497,747.50	\$ 516,224.00	\$ 18,477	3.450%	\$ 1,507.53
CD	Ally Bank	02006L2F9	WMS	01-13-15	04-20-20	No Call	\$ 248,000.00	1.800%	\$ 248,000.00	\$ 247,297.16	\$ (703)	1.800%	\$ 379.13
CD	American Express	02587DP85	WMS	04-19-17	04-19-21	No Call	\$ 248,000.00	2.250%	\$ 248,000.00	\$ 248,000.00	\$ -	2.250%	\$ 473.92
CD	American Express BK FSB	AN4199708	WMS	05-10-17	05-10-21	No Call	\$ 248,000.00	2.200%	\$ 248,000.00	\$ 248,000.00	\$ -	2.200%	\$ 463.39
CD	Goldman Sachs Bank USA	38148PUV7	WMS	12-20-17	12-20-22	No Call	\$ 248,000.00	2.500%	\$ 248,000.00	\$ 248,000.00	\$ -	2.500%	\$ 526.58
Total Actively Invested Funds							\$ 12,492,000.00		\$ 12,515,365.50	\$ 12,427,485.66	\$ (87,880)	1.754%	\$ 18,470.55
Total Local Agency Investment Fund									\$ 41,210,621.54			2.449%	\$ 85,716.96
Total Invested Cash							\$ 12,492,000.00		\$ 53,725,987.04			2.287%	\$ 104,187.92

Key to Security Type:

FHLB	- Federal Home Loan Bank
FHLMC	- Federal Home Loan Mortgage Corporation
FNMA	- Federal National Mortgage Association
USTN	- US Treasury Note
CORP	- Corporate Note
CD	- Certificate of Deposit
GDB	- Goldman Sachs Bank
AEC	- American Express Centurion

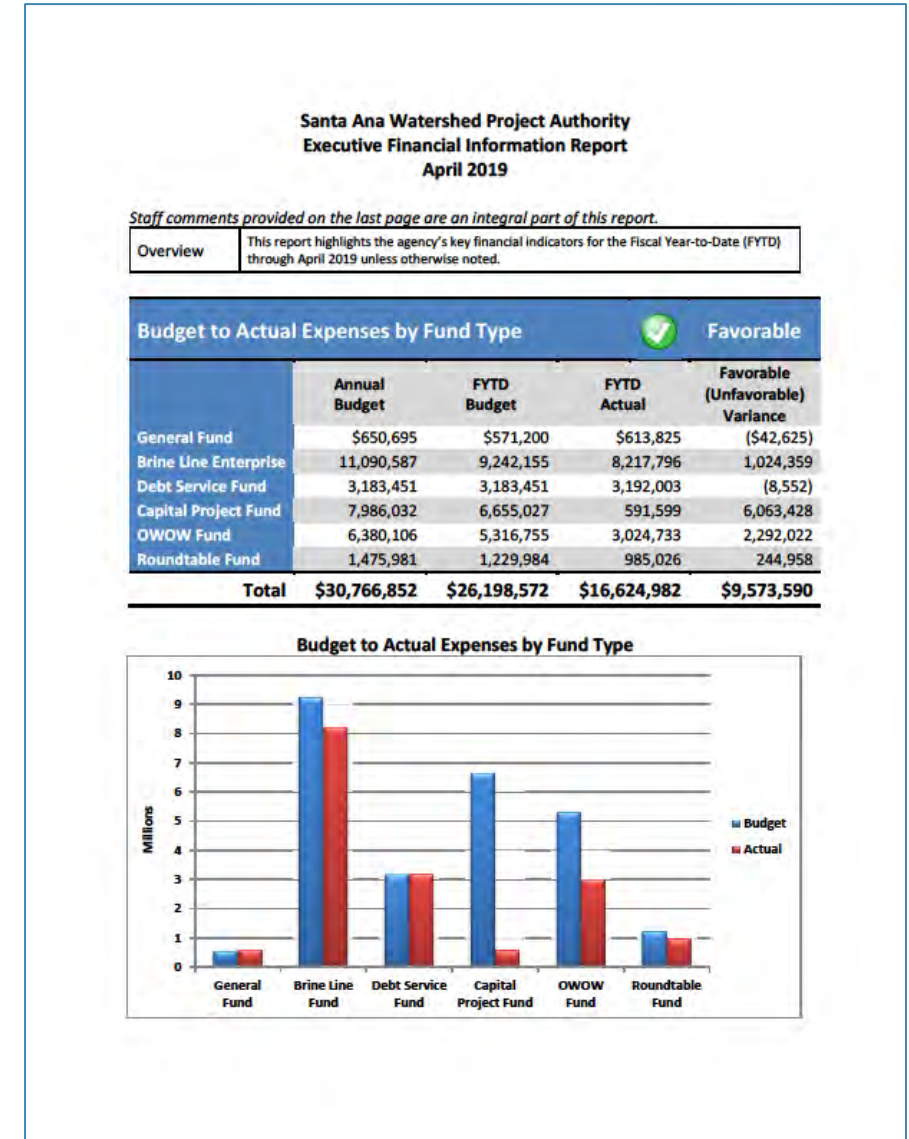
Key to Dealers:

FCS	- FinaCorp Securities
MBS	- Multi-Bank Securities
MS	- Mutual Securities
RCB	- RBC Dain Rauscher
SA	- Securities America
TVI	- Time Value Investments
WMS	- Wedbush Morgan Securities



Executive Financial Report

- Report designed to simplify budget reporting utilizing graphics
- Reports on the Budget to Actual for each Fund Type (expenses)
- Reports on the Budget to Actual by each revenue source
- Shows total cash and investments by type
- Shows Reserve Fund Balances
- Explains significant variances
- Will be doing one for each PA



Cash Transactions Report

- This report shows all cash transactions made for the month and how the cash balance changed from the prior month
- Includes an accounts payable reconciliation
- Categorizes cash receipts received during the month
- Shows transfer activity between accounts
- Categorizes all cash disbursements made during the month
- Includes the monthly check detail report which ties to cash disbursements and accounts payable reconciliation
- Lists payments made for consulting services

Santa Ana Watershed Project Authority
Cash Transaction Report
Month of April 2019

Below is a summary of cash transactions completed during the month in the Authority's checking account with US Bank. Attached are summaries by major revenue and expense classifications.

Cash Receipts and Deposits to Account	\$ 577,040.38
Net Investment Transfers	20,833.24
Cash Disbursements	<u>(802,192.50)</u>
Net Change for Month	\$ (4,518.88)
Balance at Beginning of Month	<u>2,810,450.05</u>
Balance at End of Month per General Ledger	<u>\$ 2,805,931.17</u>
Collected Balance per Bank Statement	\$ 2,818,461.72

ACCOUNTS PAYABLE RECONCILIATION

Accounts Payable Balance @ 03/31/19	\$ 1,062,287.10
Invoices Received for April 2019	298,402.01
Invoices Paid by check/wire during April 2019 (see attached register)	<u>(355,755.96)</u>
Accounts Payable Balance @ 04/30/19	<u>\$ 1,004,933.15</u>



Inter-Fund Borrowing

- In 2005, the Commission approved an Inter-Fund and Inter-Project Loan Policy per Resolution 452
- Proposition 1 and 84 are reimbursable grants where the funds must be spent before we can bill the grant
- Funds from the General Fund are loaned to other funds until they are reimbursed from the State
- Report shows changes in the inter-fund loan balances including when funds are reimbursed and increases to the balance
- Recently added the total budget for each grant, project costs through the report date, and remaining grant budget
- Graph shows the projected general fund reserve balance and the anticipated changes over the year.



COMMISSION MEMORANDUM NO. 2019.60

DATE: June 18, 2019
 TO: SAWPA Commission
 SUBJECT: Inter-Fund Borrowing – April 2019
 PREPARED BY: Karen Williams, Chief Financial Officer

RECOMMENDATION

It is recommended that the Commission receive and file the informational report on short-term, cash-flow inter-fund borrowing.

DISCUSSION

On December 13, 2005, the Commission approved Resolution No. 452, Inter-Fund and Inter-Project Loan Policy. Staff was directed to bring back an accounting of the loans each month for review when the total exceeded \$250,000 in aggregate.

The following projects, with negative cash flow, are listed below with the amounts borrowed from SAWPA General Fund Reserves in April 2019. The total amount borrowed is over the aggregate \$250,000 amount recommended in Resolution No. 452, Inter-Fund and Inter-Project Loan Policy. The Commission has requested that this item be brought back each month as an informational item when the loan amount is over the \$250,000 aggregate amount.

Fund	Fund Name	03/31/19 Balance	Loan Receipts	New Charges	04/30/19 Balance
130	Proposition 84 Admin	\$65,303.41	(\$0.00)	\$9,571.50	\$74,874.91
135	Proposition 84 Admin R2	76,356.56	(0.00)	6,699.64	83,056.20
140	Proposition 84 Admin R3	43,681.19	(0.00)	6,791.74	50,472.93
145	Proposition 84 Admin R4	105,862.17	(0.00)	9,694.91	115,557.08
398	Proposition 1 – DACI Grant	144,791.58	(0.00)	62,082.86	206,874.44
477	LESJWA Administration	11,597.00	(12,958.94)	20,758.73	19,396.79
504	Prop 84 - Drought Projects	182,710.63	(0.00)	13,077.95	195,788.58
	Total Funds Borrowed	\$630,302.54	(\$12,958.94)	\$128,677.33	\$746,020.93
	General Fund Reserves Balance			\$3,087,308.78	
	Less Amount Borrowed			746,020.93	
	Balance of General Fund Reserves			<u>\$2,341,287.85</u>	

The following table lists each fund that has a negative cash flow, the source of funding for the fund, how often the fund is billed, and the projected rate of payment for the fund.

Performance Indicators

The performance indicator report shows several types of reports

- **Financial Reports**
 - These reports provide information on the Agency's financial transactions and events
- **Cash and Investment Reports**
 - These reports show information on the Agency's cash and investments
- **Performance Indicators**
 - These reports show how the Agency is doing with regard to budgeted allocation rates, how labor hours are charged, and brine line flow



COMMISSION MEMORANDUM NO. 2019.61

DATE: June 18, 2019
TO: SAWPA Commission
SUBJECT: Performance Indicators and Financial Reporting – April 2019
PREPARED BY: Karen Williams, Chief Financial Officer

RECOMMENDATION
It is recommended that the Commission receive and file staff's report.

DISCUSSION
The attached reports have been developed to keep the Commission informed as to SAWPA's business and budget performance. These reports are categorized into the following groups: financial reporting, cash and investments, and performance indicators. They are explained in detail below. As new reports are developed, they will be added for the Commission's review.

Financial Reporting

Balance Sheet by Fund Type	Lists total assets, liabilities, and equity by fund type for a given period.
Revenue & Expense by Fund Type	Lists total revenue and expenses by fund type for a given period.
Receivables Management	Shows total outstanding accounts receivable by age.
Open Task Order Schedule	Shows SAWPA's total outstanding obligation for open task orders.
List of SAWPA Funds	Shows each SAWPA Fund with the fund description and fund group.
Debt Service Funding Analysis	Shows total annual income by source used to make debt service payments through debt maturity at FYE 2048.
Debt Service Payment Schedule	Shows total debt service interest and principal payments through debt maturity at FYE 2048.

Cash and Investments

Total Cash and Investments (chart)	Shows the changes in cash and investments balance for the last twelve months.
Cash Balance & Source of Funds	Shows total cash and investments for all SAWPA funds and the types of investments held for each fund.
Cash & Investments (pie chart)	Shows total cash and investments for all SAWPA funds and the percentage of each investment type.
Reserve Account Analysis	Shows changes to each reserve account for the year and projected ending balance for each.
Twelve Month Security Schedule (chart)	Shows the maturity dates for securities held and percentage of securities in each category.

Performance Indicators

Financial Reports

- Balance Sheet by Fund Type
- Revenue & Expense by Fund Type
- Receivables Management
- Open Task Order Schedule
- List of SAWPA Funds
- Debt Service Funding Analysis
- Debt Service Payment Schedule

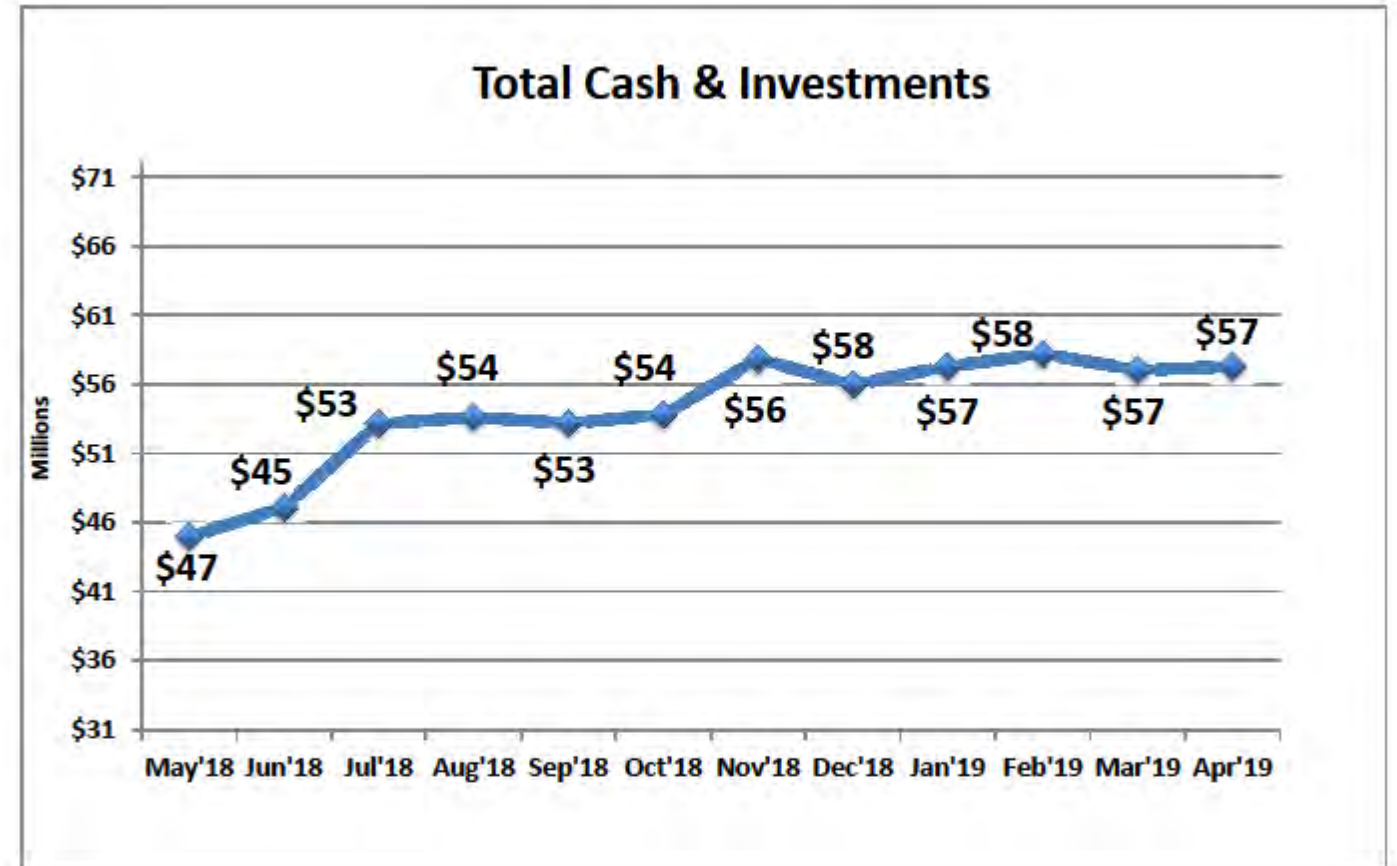
Santa Ana Watershed Project Authority
Balance Sheet by Fund Type
For the Nine Months Ending Sunday, March 31, 2019

	General Fund	Brine Line Enterprise	Capital Projects	OWOW Projects	Roundtable Projects	Fund Totals
Assets						
Current Assets						
Cash and Investments	\$3,906,763.82	\$50,204,031.28	(\$383,281.69)	\$859,195.44	\$2,459,242.21	\$57,045,951.06
Accounts Receivable	(2.24)	1,955,952.14	0.00	2,500,891.62	26,670.94	4,483,512.46
Interest Receivable	0.00	5,042.00	0.00	0.00	0.00	5,042.00
Prepays and Deposits	48,023.84	109,955.40	0.00	0.00	0.00	157,979.24
Total Current Assets	3,954,785.42	52,274,980.82	(383,281.69)	3,360,087.06	2,485,913.15	61,692,484.76
Fixed Assets						
Property, Plant & Equipment less accum depreciation	1,162,007.53	85,322,647.01	0.00	0.00	0.00	86,484,654.54
Work in Process	0.00	0.00	323,716.09	0.00	0.00	323,716.09
Total fixed assets	1,162,007.53	85,322,647.01	323,716.09	0.00	0.00	86,808,370.63
Other Assets						
Wastewater treatment/disposal rights, net of amortization	0.00	26,483,227.96	0.00	0.00	0.00	26,483,227.96
Inventory - Mitigation Credits	0.00	0.00	0.00	0.00	1,910,560.00	1,910,560.00
Total Other Assets	0.00	26,483,227.96	0.00	0.00	1,910,560.00	28,393,787.96
Total Assets	\$5,116,792.95	\$164,080,855.79	(\$59,565.60)	\$3,360,087.06	\$4,396,473.15	\$176,894,643.35
Liabilities and Fund Equity						
Current Liabilities						
Accounts Payable/Accrued Expenses	\$647,749.24	\$947,955.22	\$77,502.40	\$1,850,089.45	\$54,447.32	\$3,577,743.63
Accrued Interest Payable	0.00	247,533.06	0.00	0.00	0.00	247,533.06
Customer Deposits	10,000.00	10,000.00	0.00	0.00	451,275.71	471,275.71
Noncurrent Liabilities						
Long-term Debt	4,327,604.00	29,847,479.91	0.00	0.00	0.00	34,175,083.91
Deferred Revenue	0.00	70,209,133.50	0.00	0.00	0.00	70,209,133.50
Total Liabilities	4,985,353.24	101,262,101.69	77,502.40	1,850,089.45	505,723.03	108,680,769.81
Fund Equity						
Contributed Capital	0.00	20,920,507.03	0.00	0.00	0.00	20,920,507.03
Retained Earnings	1,330,766.05	41,330,123.79	360,590.67	985,966.44	3,576,972.00	47,584,418.95
Revenue Over/Under Expenditures	(1,199,326.34)	568,123.28	(497,658.67)	524,031.17	313,778.12	(291,052.44)
Total Fund Equity	131,439.71	62,818,754.10	(137,068.00)	1,509,997.61	3,890,750.12	68,213,873.54
Total Liabilities & Fund Equity	\$5,116,792.95	\$164,080,855.79	(\$59,565.60)	\$3,360,087.06	\$4,396,473.15	\$176,894,643.35



Cash and Investments

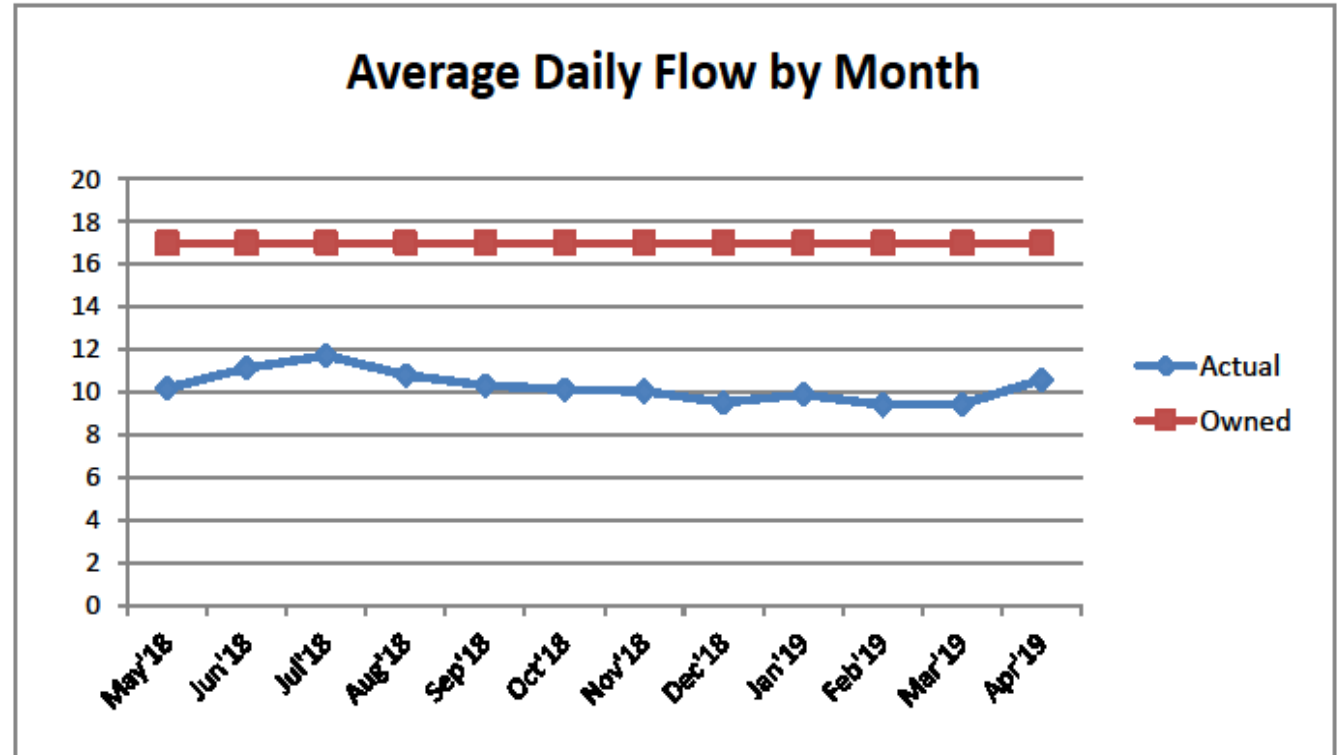
- Total Cash and Investments (chart)
- Cash Balance & Source of Funds
- Cash & Investments (pie chart)
- Reserve Account Analysis
- Twelve Month Security Schedule
- Treasurers' Report



Performance Indicators

Performance Indicators

- Average Daily Flow by Month
- Summary of Labor Multipliers
- General Fund Costs
- Benefit Summary
- Labor Hours Budget vs. Actual



Quarterly Reports



Variance Report

- The Variance Report shows the variance between the budget and actual costs and revenues for each fund type, and includes a consolidated report.
- Any variance over a certain dollar amount (\$500,000) for a consolidated line item is explained.
 - **Favorable Revenue Variance**
 - **Unfavorable Revenue Variance**
 - **Favorable Expense Variance**
 - **Unfavorable Expense Variance**



Santa Ana Watershed Project Authority
FYE 2019 Budget vs. Actual
for the Period Ending March 31, 2019

Consolidated

	FYE 2019 Budget	9-Month Budget	YTD Actual	Favorable (Unfavorable) Variance	
Operating Revenue					
Discharge Fees	\$11,090,587	\$8,317,940	\$8,233,401	-\$84,540	-1.02%
Total Operating Revenue	11,090,587	8,317,940	8,233,401	-84,540	-1.02%
Operating Expenses					
Labor	3,859,112	2,894,334	2,518,042	376,292	13.00%
Benefits	1,686,262	1,264,697	973,158	291,539	23.05%
Education & Training	67,800	50,850	6,284	44,566	87.54%
Consulting & Professional Services	4,198,961	3,149,221	2,740,082	409,138	12.99%
Operating Costs	3,295,050	2,471,288	2,262,055	209,232	8.47%
Repair & Maintenance	820,540	615,405	186,227	429,178	69.74%
Phone & Utilities	83,620	62,715	48,453	14,262	22.74%
Equipment & Computers	374,500	280,875	214,917	65,958	23.48%
Meeting & Travel	115,250	86,438	29,095	57,343	66.34%
Other Administrative Costs	331,287	248,465	146,895	101,570	40.88%
Other Expense	321,749	231,492	182,311	49,180	21.25%
Program Expenses	2,042,873	1,532,155	0	1,532,155	100.00%
Construction	6,550,000	4,912,500	10,547	4,901,853	99.78%
Operating Transfers	144,252	144,252	144,252	0	0.00%
Indirect Costs	0	0	-34,783	34,783	-100.00%
Total Operating Expenses	23,891,257	17,944,685	9,427,636	8,517,049	47.46%
Net Operating Revenue / (Deficit)	-12,800,670	-9,626,745	-1,194,235	-8,601,589	89.35%
Non-Operating Revenue (Expense)					
Member Agency Contributions	1,471,695	1,471,695	1,471,695	0	0.00%
Participant Fees	1,309,273	1,309,273	1,279,949	-29,324	-2.24%
Grant Proceeds	4,777,256	3,582,942	2,073,973	-1,508,969	-42.12%
SRF Loan Proceeds	3,000,000	2,250,000	0	-2,250,000	-100.00%
Mitigation Credit Sales	88,980	66,735	0	-66,735	-100.00%
Debt Service	-3,183,451	-3,183,451	-3,192,003	-8,552	0.27%
Interest & Investments	1,173,582	716,082	887,203	171,121	23.90%
Other Income	206,674	155,006	1,335,335	1,180,329	761.48%
Contributions to Reserves	-3,692,144	-2,822,358	-2,836,386	-14,028	-0.50%
Operating Transfers	144,252	144,252	144,252	0	0.00%
Use of Reserves	6,995,901	5,749,393	2,592,907	-3,156,486	54.90%
Net Non-Operating Revenue / (Deficit)	12,292,018	9,439,569	3,756,925	-5,682,644	-60.20%
Net Revenue / (Deficit)	-\$508,652	-\$187,177	\$2,562,690	\$2,749,866	

Quarterly Financial Report – Brine Line

- Reports on cash and investments for the Brine Line Enterprise
- Reports on the Brine Line Reserve Accounts, changes from quarter to quarter, contributions made to each reserve, and uses from each reserve
- Reports on Budget vs. Actual Revenues and Expenses
- Reports Flow, BOD, TSS billed to customers versus what OCSD billed SAWPA
- Reports on Project Costs for Capital Improvement Program



Quarterly Financial Report – All Other Funds

- Reports on
 - **Cash & Investments by Fund Type**
 - **Revenues and Expenses by Fund Type**



Quarterly Expense Reports – GM and Staff

- Shows expenses by the General Manager (credit card and reimbursed)
- Shows expenses by employee (credit card and reimbursed)



Santa Ana Watershed Project Authority
 Staff - Expense Report
 3rd Quarter FYE 2019

Sum of Amount	Date	Posting Date	Activity	Expn Type							Grand Total
				Airfare	Hotel	Meals	Mileage	Misc	Parking	Registration	
		01/31/2019	SCAS aerial imagery meeting				34.07				34.07
		02/28/2019	Cal State San Bernardino Workshop				30.62				30.62
			DWR meeting in sacramento - Lunch			159.96	10.00				170.00
			DWR Urban landscaping meeting - Southwest								159.96
			SA Sucker Habitat visit					10.21			10.21
		03/31/2019	Aerial Imager Workshop - John Wayne Airport							20.00	20.00
			CA Water Efficiency Conference - Amtrak						39.80		39.80
			Ashmore Total			159.96	10.00	94.90	39.80	20.00	294.66
		01/31/2019	DCI Meetings				70.53				70.53
			Lunch meeting with Susan Longville				12.06				12.06
			Lunch with LGC Staff - Flamingo Palms				45.97				45.97
			Meeting with OCWD and OC Public Works				9.86				9.86
		02/28/2019	Meeting with Riverside City Manager - RPS							2.60	2.60
			Meeting with Riverside City Manager - Simple Simon				37.52				37.52
			Meeting with Susan Longville - RPS							3.35	3.35
			Anjos Total				93.48	92.46	6.86		181.80
		02/28/2019	ACWA conference (Rich)							725.00	725.00
			Berry Total							725.00	725.00
		01/31/2019	Basin Scoping Meeting - Jimmy Johns				58.42				58.42
			DWOW Steering committee lunch - EZ Cater				367.45				367.45
		02/28/2019	AWQ Consultant Committee - Jimmy Johns				117.88				117.88
			Budget meeting with agency CFO's - EZ Cater				303.64				303.64
			DWOW Let's correct workshop - EZ Cater				222.95				222.95
			PA23 meeting goods - Ralphs						35.95		35.95
			Watershed Manager Interviews - Jimmy Johns				58.60				58.60
			Watershed Manager Interviews - Panera				46.61				46.61
		03/31/2019	Commission Meeting Goods - Ralphs							32.98	32.98
			DWOW Conference							32.71	32.71
			Blancas Total				1,185.66	92.71	68.98		1,287.16
		03/31/2019	CSMFO Chapter Meeting							30.00	30.00
			DWOW Conference				33.64			8.00	41.64
			Jaurregui Total				33.64		8.00	30.00	71.64
		01/31/2019	CSMFO Chapter Meeting				12.24			30.00	42.24
			CSMFO Conference				74.47				74.47
			CSMFO Conference						18.00		18.00
			CSMFO Conference - Hilton								237.86
			Staples trip for 1059 forms			222.18	15.68				10.38
		03/31/2019	CSMFO Chapter Meeting							30.00	30.00
			DWOW Conference						8.00		14.38

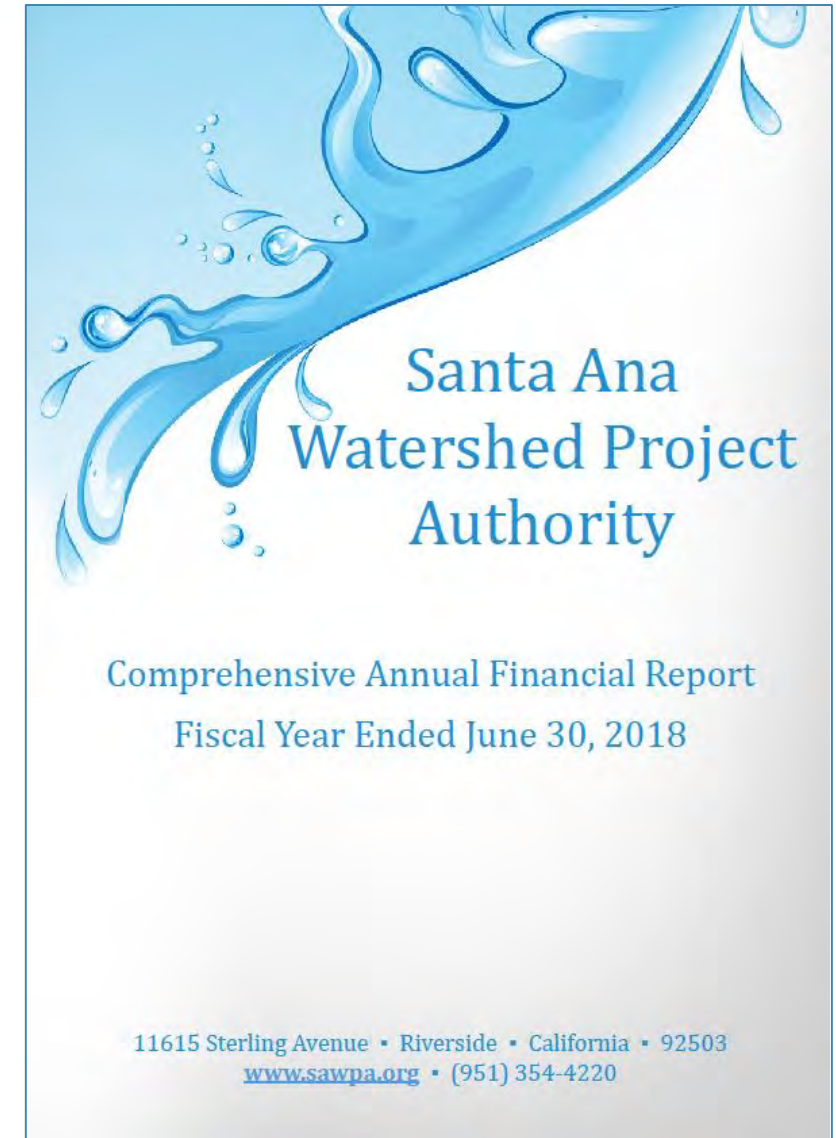


Annual Reports



Comprehensive Annual Financial Report (CAFR)

- Comprehensive Annual Financial Report (CAFR) is the financial report of the Agency for the Fiscal Year.
- Includes the Audit Report from the Independent Audit firm
- Includes Introductory, Financial, and Statistical Sections
- Submitted to the GFOA's Certificate of Achievement for Excellence in Financial Reporting Award



Introductory Section

- Transmittal Letter
- Authority Service Area Map
- GFOA Award
- Authority Officials
- Organization Chart



Financial Section

- Independent Auditor's Report
- Management's Discussion and Analysis (MD&A)
- Basic Financial Statements
- Notes to the Financial Statements
- Required Supplementary Information
- Supplementary Information



Statistical Section

- Financial Trends
- Revenue Capacity
- Debt Capacity
- Demographic and Economic Information
- Operating Information



Report on Audit

- Independent Auditors Report
 - Auditor's Opinion
- Financial Statements
 - Proprietary Fund
 - Agency Funds
- Notes to Financial Statements
- Required Supplementary Information
- Supplementary Schedules
 - Statements by Fund
 - Enterprise
 - Capital Project Activities
 - Internal Administration
 - Enterprise Activities
 - Agency



INDEPENDENT AUDITORS' REPORT

Board of Commissioners
Santa Ana Watershed Project Authority
Riverside, California

Report on the Financial Statements

We have audited the accompanying financial statements of Santa Ana Watershed Project Authority (the "Authority"), as of and for the year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States, and the California State Controller's Minimum Audit Requirements for California Special Districts. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Authority's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Are there any other reports the Commission would like to see?





Questions?