



Memorandum

To: Santa Ana Watershed Project Authority

From: CDM Smith

Date: April 15, 2020

Subject: 2020 Quarter 1 Report

This technical memorandum summarizes the Santa Ana River Regional Monitoring Program activities that occurred during the first quarter (January 1 through March 31) of 2020. It includes a brief description of monitoring activities from the first quarter, upcoming monitoring activities, and a summary of data resulting from monitoring activities. These monitoring activities were conducted under the Monitoring Plan and Quality Assurance Project Plan (QAPP) for the Santa Ana River Watershed Bacteria Monitoring Program, which were finalized in August 2019.

Monitoring Activities

Wet weather monitoring for one storm event per the MSAR Bacteria TMDL requirements was conducted. Samples were captured for the storm event that began on March 10, 2020. The storm event ranged from 0.3 to 1.6 inches over the course of 6 consecutive days based on Riverside County Flood Control rain gage in the monitoring area. Follow-up samples were collected after 48, 72 and 144 hours after the first sample was collected. The 96 hour follow up sample was delayed until 144 hours to avoid sampling another event and instead sample the falling limb of the hydrograph.

Water Quality Data

Wet weather monitoring samples were analyzed for *Escherichia coli* (E.coli) and Total Suspended Solids (TSS) (**Table 1** and **Figure 1**) by Babcock Laboratories for Riverside and San Bernardino County sites.

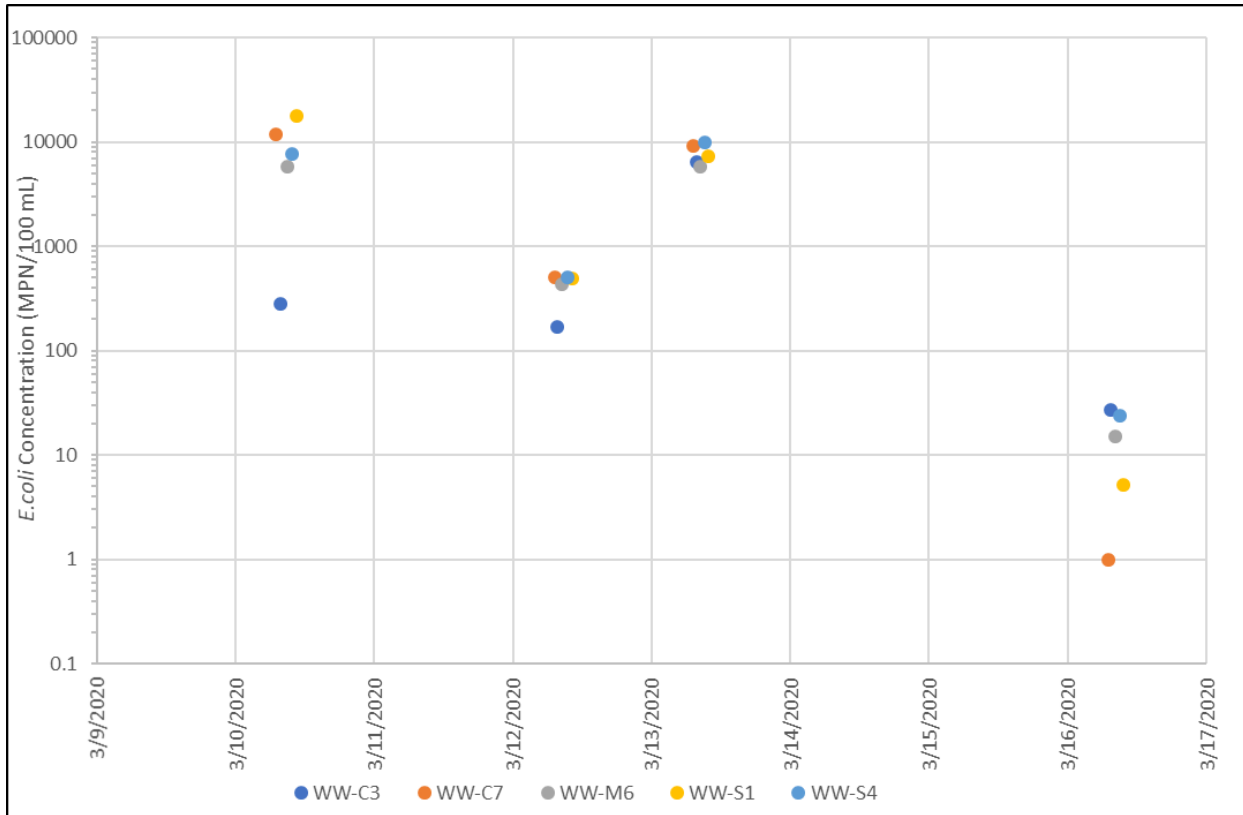


Figure 1 – 2019-2020 Wet Weather *E.coli* (MPN/100 mL) Concentrations for March 10, 2020 Storm Event

Table 1 – 2019-2020 Wet Weather *E.coli* (MPN/100 mL) and TSS (mg/L) Concentrations for March 10, 2020 Storm Event

Date	E. coli	TSS
	MPN/100mL	mg/L
Prado Park Lake (WW-C3)		
3/10/2020	280	28
3/12/2020	170	16
3/13/2020	6500	18
3/16/2020	27	26
Chino Creek at Central Avenue (WW-C7)		
3/10/2020	12000	220
3/12/2020	510	2
3/13/2020	9200	24
3/16/2020	1	6
Mill-Cucamonga Creek below Wetlands (WW-M6)		
3/10/2020	5800	110
3/12/2020	430	7
3/13/2020	5800	110
3/16/2020	15	10
Santa Ana River Reach 3 at MWD Crossing (WW-S1)		
3/10/2020	18,000	240
3/12/2020	490	26
3/13/2020	7,300	1900
3/16/2020	5.2	46
Santa Ana River Reach 3 at Pedley Avenue (WW-S4)		
3/10/2020	7700	110
3/12/2020	500	24
3/13/2020	10000	10
3/16/2020	24	94

2019-2020 Annual Report

The 2019-2020 Annual Report is currently being drafted and will be provided by April 30th for distribution and review by the Task Force. The 2019-2020 Annual Report will include results from the 2019 dry season and the 2019-2020 storm event. Based on comments received from SAWPA and stakeholders, the 2019-2020 Annual Report will be finalized by June 30, 2020.

QA/QC

No QA/QC concerns were reported during the first quarter of 2020.

Upcoming Activities

Upcoming activities for the second quarter of 2020 include:

- Dry weather monitoring for the 2020-2021 monitoring year will begin the week of May 10, 2020. Priority 1 and 2 sites will be sampled for a 20-week period that will span the upcoming two quarters. Priority 3 sites will also be sampled on a rotational 5-week schedule as described in the monitoring plan. Santa Ana River Reach 4 (P3-SBC1) will continue to be sampled weekly through the warm and cool dry seasons. Cucamonga Creek (P4-SBC1) will be sampled once per month year round.
- CDM Smith will continue to coordinate with Babcock Laboratories and CWE sampling personnel regarding all sites located in Riverside and San Bernardino Counties for storm and ongoing Priority 4 sampling.