



Memorandum

To: Santa Ana Watershed Project Authority

From: CDM Smith

Date: April 15, 2018

Subject: 2018 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 2018. It includes a brief description of monitoring activities from the first quarter, upcoming monitoring activities, a summary of data resulting from monitoring activities, and the status of the 2017-2018 Annual Report.

Monitoring Activities

Wet weather monitoring for one storm event, per the MSAR Bacteria TMDL requirements, was conducted in late February/early March. Samples were captured for the storm event that began on the night of February 27, 2018. The storm event ranged from 0.22 to 0.62 inches based on Riverside County Flood Control and Water Conservation District rain gages in the monitoring area. Per the Monitoring Plan, storm events samples were collected on the day of rainfall, followed by sample collection 48, 72, and 96 hours after the first sample was collected.

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.

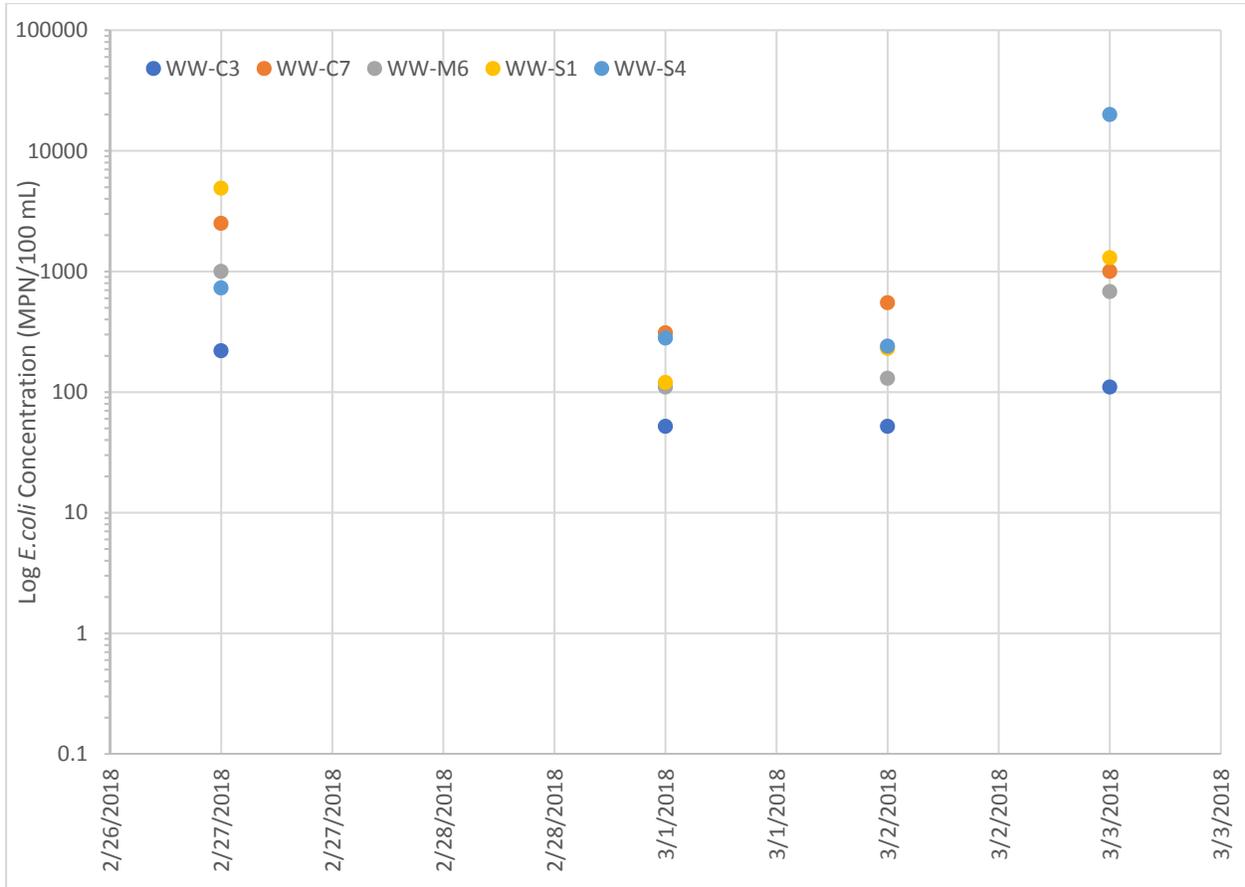


Figure 1 2017-2018 Wet Weather *E. coli* (MPN/100 mL) Concentrations for February 27 Storm Event

Table 1 – 2018 First Quarter Wet Weather *E. coli* (MPN/100 mL) and TSS Concentrations (mg/L)

Date	<i>E. coli</i>	TSS
	MPN/100 mL	mg/L
WW-S1: Santa Ana River Reach 3 at MWD Crossing		
February 27, 2018	4,900	5,600
March 1, 2018	120	6
March 2, 2018	230	13
March 3, 2018	1,300	160
WW-S4: Santa Ana River Reach 3 at Pedley Avenue		
February 27, 2018	730	110
March 1, 2018	280	24
March 2, 2018	240	10
March 3, 2018	20,000	94
WW-C3: Prado Park Lake		
February 27, 2018	220	14
March 1, 2018	52	13
March 2, 2018	52	12
March 3, 2018	110	16
WW-C7: Chino Creek at Central Avenue		
February 27, 2018	2,500	8
March 1, 2018	310	2
March 2, 2018	550	2
March 3, 2018	1,000	24
WW-M6: Mill-Cucamonga Creek below Wetlands		
February 27, 2018	1,000	53
March 1, 2018	110	6
March 2, 2018	130	5
March 3, 2018	680	10

Note: BDL = below detection limit
 1 Result pending verification by laboratory

2017-2018 Annual Report

The 2017-2018 Annual Report is currently being drafted and will be provided to SAWPA by April 30th for distribution and review by the Task Force. The 2017-2018 Annual Report will include results from the 2017 dry season and 2017-2018 storm event. Based on comments received from SAWPA and stakeholders, the 2017-2018 Annual Report will be finalized by June 30, 2018.

SAWPA

April 15, 2018

Page 4

Upcoming Activities

Dry weather monitoring for the 2018-2019 monitoring year will begin the week of May 6, 2018 during the second quarter. 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. In 2018, the first batch of Priority 3 sites to be sampled will be Group 3, which includes Morning Canyon Creek, Los Trancos Creek, and Buck Gully Creek – all in Orange County. The Orange County monitoring manager will coordinate with Orange County Public Health Laboratory and Orange County sampling personnel regarding Priority 3 sites located in their jurisdiction. CDM Smith will coordinate with Babcock Laboratories and CWE sampling personnel regarding all Priority 1 and 2 sites. CDM Smith will coordinate with the Santa Ana Regional Water Quality Control Board regarding Morning Canyon Creek and Los Trancos Creek.