



*Ventura Countywide  
Stormwater Quality  
Management Program*

2020-2021  
Permit Year

Ventura Countywide Stormwater Quality  
Management Program Annual Report

# Attachment E – TMDL Reports Part 3



December 15, 2021

Camarillo  
County of Ventura  
Fillmore  
Moorpark  
Ojai  
Oxnard  
Port Hueneme  
Santa Paula  
Simi Valley  
Thousand Oaks  
Ventura  
Ventura County Watershed Protection District

Central Services  
**Joan Araujo**, Director

Engineering Services  
**Christopher Cooper**, Director

Roads & Transportation  
**David Fleisch**, Director

Water & Sanitation  
**Joseph Pope**, Director

Watershed Protection  
**Glenn Shephard**, Director

February 24, 2021

VIA EMAIL

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013

Subject: Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring for County of Ventura, Ventura County Watershed Protection District, and City of Thousand Oaks

Dear Dr. Wang:

Please find attached the report for the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria Total Maximum Daily Load (TMDL) Compliance Monitoring Plan (CMP) for the month of January 2021. Sites were sampled weekly on Tuesday (January 5, 12, 19, and 26). Beginning on and following July 23, 2019, Rincon Consultants Inc. has been retained to conduct compliance monitoring activities.

Table 1 presents the weekly sampling results, while Table 2 presents the rolling 30-day geometric means for the sampling locations. Sample collection dates are marked with a diamond (◆) symbol. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." A map showing the location of the monitoring sites is included below.

Daily geometric means for dry weather are calculated using the past 30 days of the respective sampling data (Table 2). Note that geometric means are not calculated for wet weather samples (collected less than 72 hours after a day with > 0.1" rain). Non-sampling-day values are assigned the value of the most recent sampling event. Half the method reporting limit (MRL) was used to calculate the daily geometric means for sites with results reported as non-detect (ND) [e.g., < 18 most probable number per 100 milliliters (MPN/100 ml)]. Statistics are also calculated for dry events at all sampling locations by assigning a concentration value of half the MRL, as a zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.



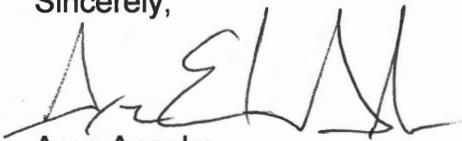
Due to regularly occurring high concentrations in analytical results, a dilution factor of 10 is applied to all samples to quantify results that exceed the standard upper reporting limit of a single dilution. As a result, the MRL for samples analyzed for this program is 18 MPN/100mL.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017.

Fecal coliform monitoring has been discontinued, as approved by the Los Angeles Regional Water Quality Control Board on October 31, 2014, in alignment with the Regional Board's removal of the fecal coliform objective for REC-1 freshwaters from the TMDL on June 7, 2012 and subsequent approval by the U.S. Environmental Protection Agency on July 2, 2014.

If you have any questions regarding this matter, please contact me at (805) 654-3942.

Sincerely,



Arne Anselm  
Deputy Director, Watershed Protection

CC: Glenn Shephard, Director, Watershed Protection (via email)  
Ewelina Mutkowska, County of Ventura (via email)  
Paul Jorgensen, City of Thousand Oaks (via email)  
Joe Bellomo, Willdan Associates (via email)  
Kelly Fisher, City of Agoura Hills (via email)  
Allen Ma, County of Los Angeles (via email)



**Table 1. Weekly sampling results**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (as sampled)	
					E. coli (235 MPN)
MCW-8b (County)	1215	1/5/2021 ♦		<	18
MCW-8b (County)	1140	1/12/2021 ♦		<	18
MCW-8b (County)	1120	1/19/2021 ♦		<	18
MCW-8b (County)	1110	1/26/2021 ♦	Rain	<	18
MCW-9 (County)	-	1/5/2021 ♦	Dry		Dry
MCW-9 (County)	-	1/12/2021 ♦	Dry		Dry
MCW-9 (County)	-	1/19/2021 ♦	Dry		Dry
MCW-9 (County)	-	1/26/2021 ♦	Rain		Dry
MCW-12 (County)	1130	1/5/2021 ♦		=	20
MCW-12 (County)	1105	1/12/2021 ♦		<	18
MCW-12 (County)	1045	1/19/2021 ♦		<	18
MCW-12 (County)	1050	1/26/2021 ♦	Rain	=	45
MCW-14b (City and County)	1100	1/5/2021 ♦		=	790
MCW-14b (City and County)	1040	1/12/2021 ♦		=	490
MCW-14b (City and County)	1020	1/19/2021 ♦		=	490
MCW-14b (City and County)	1030	1/26/2021 ♦	Rain	=	790
MCW-15c (City)*	1025	1/5/2021 ♦		=	240
MCW-15c (City)*	1025	1/12/2021 ♦		=	78
MCW-15c (City)*	1000	1/19/2021 ♦		=	130
MCW-15c (City)*	1005	1/26/2021 ♦	Rain	=	20
MCW-17 (City and County)	-	1/5/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	1/12/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	1/19/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	1/26/2021 ♦	Rain		Dry
MCW-18 (County)	-	1/5/2021 ♦	Dry		Dry
MCW-18 (County)	-	1/12/2021 ♦	Dry		Dry
MCW-18 (County)	-	1/19/2021 ♦	Dry		Dry
MCW-18 (County)	-	1/26/2021 ♦	Rain		Dry

Notes:

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦: Date of sampling

-: Time is not applicable, as no sample was collected due to insufficient flow

Dry: Samples were not collected due to insufficient flow

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in a MRL of 18 MPN/100 ml



**Table 2. Computation of daily geometric mean**

Location (Jurisdiction)	Time	Date	Rain		Single Sample (adjusted for rain, dry and NDs)	Geometric Mean
					E. coli (235 MPN)	E. coli (126 MPN)
MCW-8b (County)	1200	1/1/2021	Rain	=	**Rain**	**Rain**
MCW-8b (County)	1200	1/2/2021	Rain	=	**Rain**	**Rain**
MCW-8b (County)	1200	1/3/2021	Rain	=	**Rain**	**Rain**
MCW-8b (County)	1200	1/4/2021	Rain	=	**Rain**	**Rain**
MCW-8b (County)	1215	1/5/2021 ♦		<	9	43
MCW-8b (County)	1215	1/6/2021		<	9	41
MCW-8b (County)	1215	1/7/2021		<	9	39
MCW-8b (County)	1215	1/8/2021		<	9	37
MCW-8b (County)	1215	1/9/2021		<	9	35
MCW-8b (County)	1215	1/10/2021		<	9	33
MCW-8b (County)	1215	1/11/2021		<	9	32
MCW-8b (County)	1140	1/12/2021 ♦		<	9	30
MCW-8b (County)	1140	1/13/2021		<	9	29
MCW-8b (County)	1140	1/14/2021		<	9	28
MCW-8b (County)	1140	1/15/2021		<	9	27
MCW-8b (County)	1140	1/16/2021		<	9	27
MCW-8b (County)	1140	1/17/2021		<	9	26
MCW-8b (County)	1140	1/18/2021		<	9	25
MCW-8b (County)	1120	1/19/2021 ♦		<	9	25
MCW-8b (County)	1120	1/20/2021		<	9	24
MCW-8b (County)	1120	1/21/2021		<	9	22
MCW-8b (County)	1120	1/22/2021		<	9	21
MCW-8b (County)	1120	1/23/2021		<	9	19
MCW-8b (County)	1120	1/24/2021		<	9	18
MCW-8b (County)	1120	1/25/2021		<	9	17
MCW-8b (County)	1110	1/26/2021 ♦	Rain	<	**Rain**	**Rain**
MCW-8b (County)	1110	1/27/2021	Rain	<	**Rain**	**Rain**
MCW-8b (County)	1110	1/28/2021	Rain	<	**Rain**	**Rain**
MCW-8b (County)	1110	1/29/2021	Rain	<	**Rain**	**Rain**
MCW-8b (County)	1110	1/30/2021	Rain	<	**Rain**	**Rain**
MCW-8b (County)	1110	1/31/2021	Rain	<	**Rain**	**Rain**
MCW-9 (County)	-	1/1/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/2/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/3/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/4/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/5/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	1/6/2021	Dry	<	9	9
MCW-9 (County)	-	1/7/2021	Dry	<	9	9
MCW-9 (County)	-	1/8/2021	Dry	<	9	9
MCW-9 (County)	-	1/9/2021	Dry	<	9	9
MCW-9 (County)	-	1/10/2021	Dry	<	9	9
MCW-9 (County)	-	1/11/2021	Dry	<	9	9
MCW-9 (County)	-	1/12/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	1/13/2021	Dry	<	9	9
MCW-9 (County)	-	1/14/2021	Dry	<	9	9
MCW-9 (County)	-	1/15/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-9 (County)	-	1/16/2021	Dry	<	9	9
MCW-9 (County)	-	1/17/2021	Dry	<	9	9
MCW-9 (County)	-	1/18/2021	Dry	<	9	9
MCW-9 (County)	-	1/19/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	1/20/2021	Dry	<	9	9
MCW-9 (County)	-	1/21/2021	Dry	<	9	9
MCW-9 (County)	-	1/22/2021	Dry	<	9	9
MCW-9 (County)	-	1/23/2021	Dry	<	9	9
MCW-9 (County)	-	1/24/2021	Dry	<	9	9
MCW-9 (County)	-	1/25/2021	Dry	<	9	9
MCW-9 (County)	-	1/26/2021 ♦	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/27/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/28/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/29/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/30/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	1/31/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1125	1/1/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1125	1/2/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1125	1/3/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1125	1/4/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1130	1/5/2021 ♦		=	20	58
MCW-12 (County)	1130	1/6/2021		=	20	54
MCW-12 (County)	1130	1/7/2021		=	20	51
MCW-12 (County)	1130	1/8/2021		=	20	48
MCW-12 (County)	1130	1/9/2021		=	20	45
MCW-12 (County)	1130	1/10/2021		=	20	42
MCW-12 (County)	1130	1/11/2021		=	20	40
MCW-12 (County)	1105	1/12/2021 ♦		<	9	46
MCW-12 (County)	1105	1/13/2021		<	9	33
MCW-12 (County)	1105	1/14/2021		<	9	32
MCW-12 (County)	1105	1/15/2021		<	9	31
MCW-12 (County)	1105	1/16/2021		<	9	31
MCW-12 (County)	1105	1/17/2021		<	9	30
MCW-12 (County)	1105	1/18/2021		<	9	29
MCW-12 (County)	1045	1/19/2021 ♦		<	9	28
MCW-12 (County)	1045	1/20/2021		<	9	28
MCW-12 (County)	1045	1/21/2021		<	9	28
MCW-12 (County)	1045	1/22/2021		<	9	28
MCW-12 (County)	1045	1/23/2021		<	9	28
MCW-12 (County)	1045	1/24/2021		<	9	28
MCW-12 (County)	1045	1/25/2021		<	9	28
MCW-12 (County)	1050	1/26/2021 ♦	Rain		**Rain**	**Rain**
MCW-12 (County)	1050	1/27/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1050	1/28/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1050	1/29/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1050	1/30/2021	Rain		**Rain**	**Rain**



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	
				E. coli (235 MPN)	Geometric Mean E. coli (126 MPN)
MCW-12 (County)	1050	1/31/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1100	1/1/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1100	1/2/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1100	1/3/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1100	1/4/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1100	1/5/2021 ♦	=	790	82
MCW-14b (City and County)	1100	1/6/2021	=	790	96
MCW-14b (City and County)	1100	1/7/2021	=	790	112
MCW-14b (City and County)	1100	1/8/2021	=	790	131
MCW-14b (City and County)	1100	1/9/2021	=	790	154
MCW-14b (City and County)	1100	1/10/2021	=	790	180
MCW-14b (City and County)	1100	1/11/2021	=	790	211
MCW-14b (City and County)	1040	1/12/2021 ♦	=	490	243
MCW-14b (City and County)	1040	1/13/2021	=	490	281
MCW-14b (City and County)	1040	1/14/2021	=	490	298
MCW-14b (City and County)	1040	1/15/2021	=	490	317
MCW-14b (City and County)	1040	1/16/2021	=	490	337
MCW-14b (City and County)	1040	1/17/2021	=	490	359
MCW-14b (City and County)	1040	1/18/2021	=	490	381
MCW-14b (City and County)	1020	1/19/2021 ♦	=	490	405
MCW-14b (City and County)	1020	1/20/2021	=	490	431
MCW-14b (City and County)	1020	1/21/2021	=	490	458
MCW-14b (City and County)	1020	1/22/2021	=	490	487
MCW-14b (City and County)	1020	1/23/2021	=	490	518
MCW-14b (City and County)	1020	1/24/2021	=	490	550
MCW-14b (City and County)	1020	1/25/2021	=	490	585
MCW-14b (City and County)	1030	1/26/2021 ♦	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1030	1/27/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1030	1/28/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1030	1/29/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1030	1/30/2021	Rain	**Rain**	**Rain**
MCW-14b (City and County)	1030	1/31/2021	Rain	**Rain**	**Rain**
MCW-15c (City)*	1020	1/1/2021	Rain	**Rain**	**Rain**
MCW-15c (City)*	1020	1/2/2021	Rain	**Rain**	**Rain**
MCW-15c (City)*	1020	1/3/2021	Rain	**Rain**	**Rain**
MCW-15c (City)*	1020	1/4/2021	Rain	**Rain**	**Rain**
MCW-15c (City)*	1025	1/5/2021 ♦	=	240	40
MCW-15c (City)*	1025	1/6/2021	=	240	45
MCW-15c (City)*	1025	1/7/2021	=	240	50
MCW-15c (City)*	1025	1/8/2021	=	240	56
MCW-15c (City)*	1025	1/9/2021	=	240	63
MCW-15c (City)*	1025	1/10/2021	=	240	70
MCW-15c (City)*	1025	1/11/2021	=	240	78
MCW-15c (City)*	1025	1/12/2021 ♦	=	78	84
MCW-15c (City)*	1025	1/13/2021	=	78	90



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-15c (City)*	1025	1/14/2021	=	78	97	
MCW-15c (City)*	1025	1/15/2021	=	78	93	
MCW-15c (City)*	1025	1/16/2021	=	78	112	
MCW-15c (City)*	1025	1/17/2021	=	78	120	
MCW-15c (City)*	1025	1/18/2021	=	78	129	
MCW-15c (City)*	1000	1/19/2021 ♦	=	130	141	
MCW-15c (City)*	1000	1/20/2021	=	130	154	
MCW-15c (City)*	1000	1/21/2021	=	130	168	
MCW-15c (City)*	1000	1/22/2021	=	130	184	
MCW-15c (City)*	1000	1/23/2021	=	130	201	
MCW-15c (City)*	1000	1/24/2021	=	130	220	
MCW-15c (City)*	1000	1/25/2021	=	130	240	
MCW-15c (City)*	1005	1/26/2021 ♦	Rain	**Rain**	**Rain**	
MCW-15c (City)*	1005	1/27/2021	Rain	**Rain**	**Rain**	
MCW-15c (City)*	1005	1/28/2021	Rain	**Rain**	**Rain**	
MCW-15c (City)*	1005	1/29/2021	Rain	**Rain**	**Rain**	
MCW-15c (City)*	1005	1/30/2021	Rain	**Rain**	**Rain**	
MCW-15c (City)*	1005	1/31/2021	Rain	**Rain**	**Rain**	
MCW-17 (City and County)	1000	1/1/2021	Rain	**Rain**	**Rain**	
MCW-17 (City and County)	1000	1/2/2021	Rain	**Rain**	**Rain**	
MCW-17 (City and County)	1000	1/3/2021	Rain	**Rain**	**Rain**	
MCW-17 (City and County)	1000	1/4/2021	Rain	**Rain**	**Rain**	
MCW-17 (City and County)	-	1/5/2021 ♦	Dry	< 9	9	
MCW-17 (City and County)	-	1/6/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/7/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/8/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/9/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/10/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/11/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/12/2021 ♦	Dry	< 9	9	
MCW-17 (City and County)	-	1/13/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/14/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/15/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/16/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/17/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/18/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/19/2021 ♦	Dry	< 9	9	
MCW-17 (City and County)	-	1/20/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/21/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/22/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/23/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/24/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/25/2021	Dry	< 9	9	
MCW-17 (City and County)	-	1/26/2021 ♦	Rain	**Rain**	**Rain**	
MCW-17 (City and County)	-	1/27/2021	Rain	**Rain**	**Rain**	
MCW-17 (City and County)	-	1/28/2021	Rain	**Rain**	**Rain**	



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	
				E. coli (235 MPN)	Geometric Mean E. coli (126 MPN)
MCW-17 (City and County)	-	1/29/2021	Rain	**Rain**	**Rain**
MCW-17 (City and County)	-	1/30/2021	Rain	**Rain**	**Rain**
MCW-17 (City and County)	-	1/31/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/1/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/2/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/3/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/4/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/5/2021 ♦	Dry	< 9	9
MCW-18 (County)	-	1/6/2021	Dry	< 9	9
MCW-18 (County)	-	1/7/2021	Dry	< 9	9
MCW-18 (County)	-	1/8/2021	Dry	< 9	9
MCW-18 (County)	-	1/9/2021	Dry	< 9	9
MCW-18 (County)	-	1/10/2021	Dry	< 9	9
MCW-18 (County)	-	1/11/2021	Dry	< 9	9
MCW-18 (County)	-	1/12/2021 ♦	Dry	< 9	9
MCW-18 (County)	-	1/13/2021	Dry	< 9	9
MCW-18 (County)	-	1/14/2021	Dry	< 9	9
MCW-18 (County)	-	1/15/2021	Dry	< 9	9
MCW-18 (County)	-	1/16/2021	Dry	< 9	9
MCW-18 (County)	-	1/17/2021	Dry	< 9	9
MCW-18 (County)	-	1/18/2021	Dry	< 9	9
MCW-18 (County)	-	1/19/2021 ♦	Dry	< 9	9
MCW-18 (County)	-	1/20/2021	Dry	< 9	9
MCW-18 (County)	-	1/21/2021	Dry	< 9	9
MCW-18 (County)	-	1/22/2021	Dry	< 9	9
MCW-18 (County)	-	1/23/2021	Dry	< 9	9
MCW-18 (County)	-	1/24/2021	Dry	< 9	9
MCW-18 (County)	-	1/25/2021	Dry	< 9	9
MCW-18 (County)	-	1/26/2021 ♦	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/27/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/28/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/29/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/30/2021	Rain	**Rain**	**Rain**
MCW-18 (County)	-	1/31/2021	Rain	**Rain**	**Rain**

Notes:

♦: Date of sampling

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in an MRL of 18 MPN/100 ml

Results of <18 MPN/100 ml are adjusted to use half the MRL (=9) in the calculation of the geometric mean. As such, Table 2 presents a value of 9 MPN/100mL to distinguish the value used for calculation of the 30-day geometric mean

Dry: Samples were not collected due to insufficient flow and a value of 9 MPN/100 ml (half the MRL) was used for calculation of the 30-day geometric mean

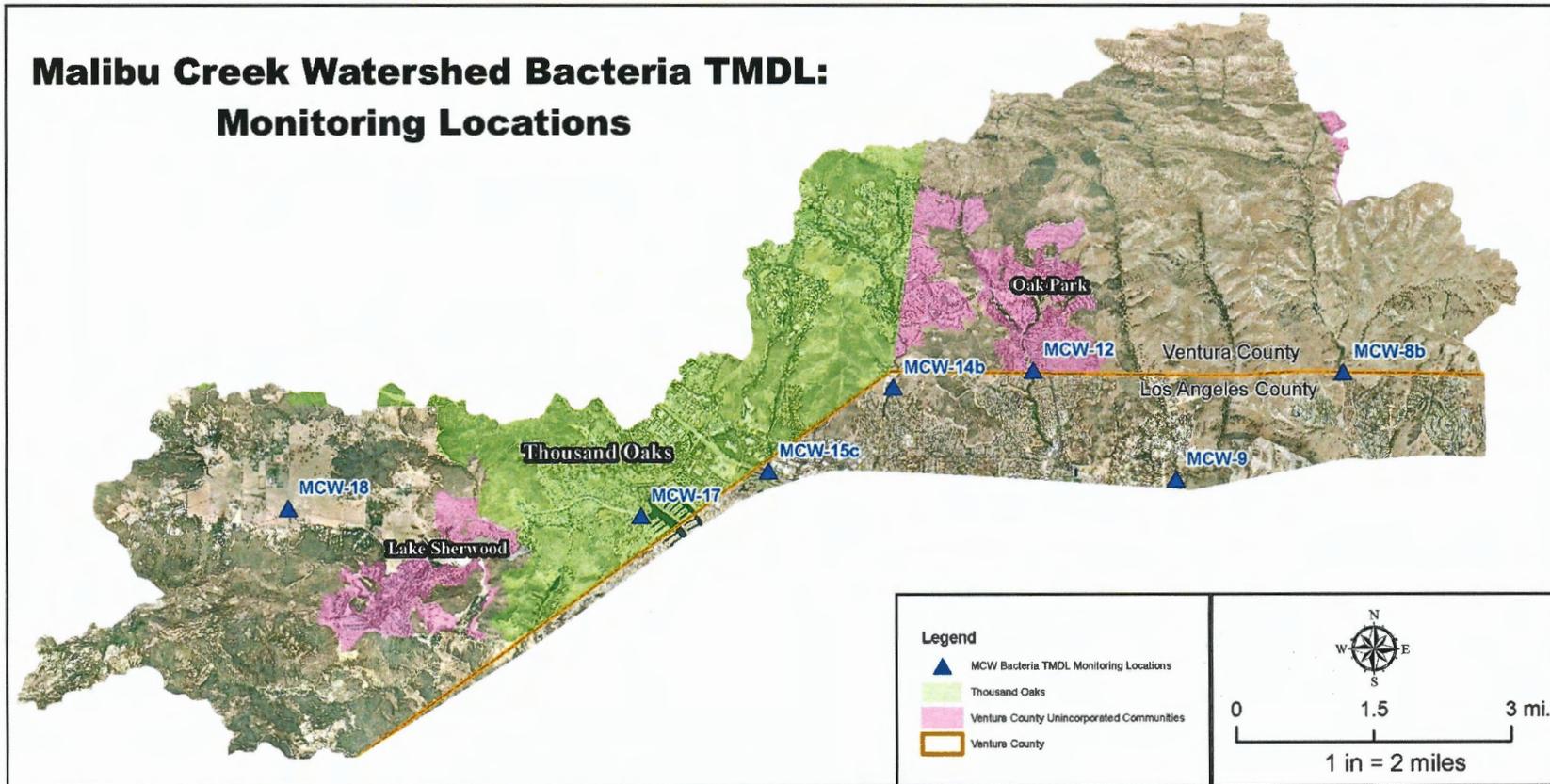
-: Time is not applicable, as no sample was collected due to insufficient flow

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geometric mean.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010





Central Services  
Joan Araujo, Director

Engineering Services  
Christopher Cooper, Director

Roads & Transportation  
David Fleisch, Director

Water & Sanitation  
Joseph Pope, Director

Watershed Protection  
Glenn Shephard, Director

March 24, 2021

VIA EMAIL

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013

Subject: Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring for County of Ventura, Ventura County Watershed Protection District, and City of Thousand Oaks

Dear Dr. Wang:

Please find attached the report for the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria Total Maximum Daily Load (TMDL) Compliance Monitoring Plan (CMP) for the month of February 2021. Sites were sampled weekly on Tuesday (February 2, 9, 16, and 23). Note that field personnel encountered technical difficulties and were unable to collect a sample at MCW-8b on February 2, 2021, and the previous dry weather sample result was used for reporting purposes herein. Beginning on and following July 23, 2019, Rincon Consultants Inc. has been retained to conduct compliance monitoring activities.

Table 1 presents the weekly sampling results, while Table 2 presents the rolling 30-day geometric means for the sampling locations. Sample collection dates are marked with a diamond (◆) symbol. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." A map showing the location of the monitoring sites is included below.

Daily geometric means for dry weather are calculated using the past 30 days of the respective sampling data (Table 2). Note that geometric means are not calculated for wet weather samples (collected less than 72 hours after a day with > 0.1" rain). Non-sampling-day values are assigned the value of the most recent sampling event. Half the method reporting limit (MRL) was used to calculate the daily geometric means for sites with results reported as non-detect (ND) [e.g., < 18 most probable number per 100 milliliters (MPN/100 ml)]. Statistics are also calculated for dry events at all sampling locations by assigning a concentration value of half the MRL, as a zero value is



undefined logarithmically, and as such would be unusable in the geometric mean calculation.

Due to regularly occurring high concentrations in analytical results, a dilution factor of 10 is applied to all samples to quantify results that exceed the standard upper reporting limit of a single dilution. As a result, the MRL for samples analyzed for this program is 18 MPN/100mL.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017.

Fecal coliform monitoring has been discontinued, as approved by the Los Angeles Regional Water Quality Control Board on October 31, 2014, in alignment with the Regional Board's removal of the fecal coliform objective for REC-1 freshwaters from the TMDL on June 7, 2012 and subsequent approval by the U.S. Environmental Protection Agency on July 2, 2014.

If you have any questions regarding this matter, please contact me at (805) 654-3942.

Sincerely,



Arne Anselm  
Deputy Director, Watershed Protection

CC: Glenn Shephard, Director, Watershed Protection (via email)  
Ewelina Mutkowska, County of Ventura (via email)  
Paul Jorgensen, City of Thousand Oaks (via email)  
Joe Bellomo, Willdan Associates (via email)  
Kelly Fisher, City of Agoura Hills (via email)  
Allen Ma, County of Los Angeles (via email)



**Table 1. Weekly sampling results**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (as sampled)	
					E. coli (235 MPN)
MCW-8b (County)	-	2/2/2021 ♦		<	18 <sup>a</sup>
MCW-8b (County)	1130	2/9/2021 ♦		<	18
MCW-8b (County)	1200	2/16/2021 ♦		<	18
MCW-8b (County)	1150	2/23/2021 ♦		=	20
MCW-9 (County)	-	2/2/2021 ♦	Dry		Dry
MCW-9 (County)	-	2/9/2021 ♦	Dry		Dry
MCW-9 (County)	-	2/16/2021 ♦	Dry		Dry
MCW-9 (County)	-	2/23/2021 ♦	Dry		Dry
MCW-12 (County)	1240	2/2/2021 ♦		<	18
MCW-12 (County)	1050	2/9/2021 ♦		=	33
MCW-12 (County)	1115	2/16/2021 ♦		<	18
MCW-12 (County)	1120	2/23/2021 ♦		=	18
MCW-14b (City and County)	1050	2/2/2021 ♦		=	68
MCW-14b (City and County)	1020	2/9/2021 ♦		<	18
MCW-14b (City and County)	1050	2/16/2021 ♦		=	230
MCW-14b (City and County)	1100	2/23/2021 ♦		=	110
MCW-15c (City)*	1030	2/2/2021 ♦		<	18
MCW-15c (City)*	1000	2/9/2021 ♦		<	18
MCW-15c (City)*	1015	2/16/2021 ♦		<	18
MCW-15c (City)*	1005	2/23/2021 ♦		<	18
MCW-17 (City and County)	-	2/2/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	2/9/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	2/16/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	2/23/2021 ♦	Dry		Dry
MCW-18 (County)	-	2/2/2021 ♦	Dry		Dry
MCW-18 (County)	-	2/9/2021 ♦	Dry		Dry
MCW-18 (County)	-	2/16/2021 ♦	Dry		Dry
MCW-18 (County)	-	2/23/2021 ♦	Dry		Dry

Notes:

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦: Date of sampling

-: Time is not applicable, as no sample was collected due to insufficient flow

Dry: Samples were not collected due to insufficient flow

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in a MRL of 18 MPN/100 ml

a: Field personnel were unable to collect a sample at MCW-8b due to technical difficulties. The previous dry weather sample result is used in its place.



**Table 2. Computation of daily geometric mean**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-8b (County)	1110	2/1/2021	Rain		**Rain**	**Rain**
MCW-8b (County)	-	2/2/2021 ♦		<	9 <sup>a</sup>	16 <sup>a</sup>
MCW-8b (County)	-	2/3/2021		<	9 <sup>a</sup>	14 <sup>a</sup>
MCW-8b (County)	-	2/4/2021		<	9 <sup>a</sup>	13 <sup>a</sup>
MCW-8b (County)	-	2/5/2021		<	9 <sup>a</sup>	13 <sup>a</sup>
MCW-8b (County)	-	2/6/2021		<	9 <sup>a</sup>	12 <sup>a</sup>
MCW-8b (County)	-	2/7/2021		<	9 <sup>a</sup>	11 <sup>a</sup>
MCW-8b (County)	-	2/8/2021		<	9 <sup>a</sup>	10 <sup>a</sup>
MCW-8b (County)	1130	2/9/2021 ♦		<	9	10
MCW-8b (County)	1130	2/10/2021		<	9	9
MCW-8b (County)	1130	2/11/2021		<	9	9
MCW-8b (County)	1130	2/12/2021		<	9	9
MCW-8b (County)	1130	2/13/2021		<	9	9
MCW-8b (County)	1130	2/14/2021		<	9	9
MCW-8b (County)	1130	2/15/2021		<	9	9
MCW-8b (County)	1200	2/16/2021 ♦		<	9	9
MCW-8b (County)	1200	2/17/2021		<	9	9
MCW-8b (County)	1200	2/18/2021		<	9	9
MCW-8b (County)	1200	2/19/2021		<	9	9
MCW-8b (County)	1200	2/20/2021		<	9	9
MCW-8b (County)	1200	2/21/2021		<	9	9
MCW-8b (County)	1200	2/22/2021		<	9	9
MCW-8b (County)	1150	2/23/2021 ♦		=	20	9
MCW-8b (County)	1150	2/24/2021		=	20	9
MCW-8b (County)	1150	2/25/2021		=	20	10
MCW-8b (County)	1150	2/26/2021		=	20	10
MCW-8b (County)	1150	2/27/2021		=	20	10
MCW-8b (County)	1150	2/28/2021		=	20	11
MCW-9 (County)	-	2/1/2021	Dry		**Rain**	**Rain**
MCW-9 (County)	-	2/2/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	2/3/2021	Dry	<	9	9
MCW-9 (County)	-	2/4/2021	Dry	<	9	9
MCW-9 (County)	-	2/5/2021	Dry	<	9	9
MCW-9 (County)	-	2/6/2021	Dry	<	9	9
MCW-9 (County)	-	2/7/2021	Dry	<	9	9
MCW-9 (County)	-	2/8/2021	Dry	<	9	9
MCW-9 (County)	-	2/9/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	2/10/2021	Dry	<	9	9
MCW-9 (County)	-	2/11/2021	Dry	<	9	9
MCW-9 (County)	-	2/12/2021	Dry	<	9	9
MCW-9 (County)	-	2/13/2021	Dry	<	9	9
MCW-9 (County)	-	2/14/2021	Dry	<	9	9
MCW-9 (County)	-	2/15/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-9 (County)	-	2/16/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	2/17/2021	Dry	<	9	9
MCW-9 (County)	-	2/18/2021	Dry	<	9	9
MCW-9 (County)	-	2/19/2021	Dry	<	9	9
MCW-9 (County)	-	2/20/2021	Dry	<	9	9
MCW-9 (County)	-	2/21/2021	Dry	<	9	9
MCW-9 (County)	-	2/22/2021	Dry	<	9	9
MCW-9 (County)	-	2/23/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	2/24/2021	Dry	<	9	9
MCW-9 (County)	-	2/25/2021	Dry	<	9	9
MCW-9 (County)	-	2/26/2021	Dry	<	9	9
MCW-9 (County)	-	2/27/2021	Dry	<	9	9
MCW-9 (County)	-	2/28/2021	Dry	<	9	9
MCW-12 (County)	1050	2/1/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1240	2/2/2021 ♦		<	9	28
MCW-12 (County)	1240	2/3/2021		<	9	28
MCW-12 (County)	1240	2/4/2021		<	9	24
MCW-12 (County)	1240	2/5/2021		<	9	21
MCW-12 (County)	1240	2/6/2021		<	9	18
MCW-12 (County)	1240	2/7/2021		<	9	16
MCW-12 (County)	1240	2/8/2021		<	9	14
MCW-12 (County)	1130	2/9/2021 ♦		=	33	13
MCW-12 (County)	1130	2/10/2021		=	33	12
MCW-12 (County)	1130	2/11/2021		=	33	12
MCW-12 (County)	1130	2/12/2021		=	33	12
MCW-12 (County)	1130	2/13/2021		=	33	12
MCW-12 (County)	1130	2/14/2021		=	33	13
MCW-12 (County)	1130	2/15/2021		=	33	13
MCW-12 (County)	1200	2/16/2021 ♦		<	9	13
MCW-12 (County)	1200	2/17/2021		<	9	12
MCW-12 (County)	1200	2/18/2021		<	9	12
MCW-12 (County)	1200	2/19/2021		<	9	12
MCW-12 (County)	1200	2/20/2021		<	9	12
MCW-12 (County)	1200	2/21/2021		<	9	12
MCW-12 (County)	1200	2/22/2021		<	9	12
MCW-12 (County)	1150	2/23/2021 ♦		=	18	12
MCW-12 (County)	1150	2/24/2021		=	18	13
MCW-12 (County)	1150	2/25/2021		=	18	13
MCW-12 (County)	1150	2/26/2021		=	18	13
MCW-12 (County)	1150	2/27/2021		=	18	13
MCW-12 (County)	1150	2/28/2021		=	18	14
MCW-14b (City and County)	1030	2/1/2021	Rain		**Rain**	**Rain**
MCW-14b (City and County)	1050	2/2/2021 ♦		=	68	583



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	
				E. coli (235 MPN)	Geometric Mean E. coli (126 MPN)
MCW-14b (City and County)	1050	2/3/2021	=	68	580
MCW-14b (City and County)	1050	2/4/2021	=	68	529
MCW-14b (City and County)	1050	2/5/2021	=	68	482
MCW-14b (City and County)	1050	2/6/2021	=	68	439
MCW-14b (City and County)	1050	2/7/2021	=	68	400
MCW-14b (City and County)	1050	2/8/2021	=	68	365
MCW-14b (City and County)	1020	2/9/2021 ♦	<	9	311
MCW-14b (City and County)	1020	2/10/2021	<	9	265
MCW-14b (City and County)	1020	2/11/2021	<	9	228
MCW-14b (City and County)	1020	2/12/2021	<	9	196
MCW-14b (City and County)	1020	2/13/2021	<	9	169
MCW-14b (City and County)	1020	2/14/2021	<	9	146
MCW-14b (City and County)	1020	2/15/2021	<	9	126
MCW-14b (City and County)	1050	2/16/2021 ♦	=	230	120
MCW-14b (City and County)	1050	2/17/2021	=	230	116
MCW-14b (City and County)	1050	2/18/2021	=	230	113
MCW-14b (City and County)	1050	2/19/2021	=	230	110
MCW-14b (City and County)	1050	2/20/2021	=	230	107
MCW-14b (City and County)	1050	2/21/2021	=	230	105
MCW-14b (City and County)	1050	2/22/2021	=	230	102
MCW-14b (City and County)	1100	2/23/2021 ♦	=	110	97
MCW-14b (City and County)	1100	2/24/2021	=	110	92
MCW-14b (City and County)	1100	2/25/2021	=	110	88
MCW-14b (City and County)	1100	2/26/2021	=	110	84
MCW-14b (City and County)	1100	2/27/2021	=	110	79
MCW-14b (City and County)	1100	2/28/2021	=	110	76
MCW-15c (City)*	1005	2/1/2021	Rain	**Rain**	**Rain**
MCW-15c (City)*	1030	2/2/2021 ♦	<	9	240
MCW-15c (City)*	1030	2/3/2021	<	9	240
MCW-15c (City)*	1030	2/4/2021	<	9	197
MCW-15c (City)*	1030	2/5/2021	<	9	161
MCW-15c (City)*	1030	2/6/2021	<	9	132
MCW-15c (City)*	1030	2/7/2021	<	9	108
MCW-15c (City)*	1030	2/8/2021	<	9	89
MCW-15c (City)*	1000	2/9/2021 ♦	<	9	73
MCW-15c (City)*	1000	2/10/2021	<	9	60
MCW-15c (City)*	1000	2/11/2021	<	9	54
MCW-15c (City)*	1000	2/12/2021	<	9	48
MCW-15c (City)*	1000	2/13/2021	<	9	43
MCW-15c (City)*	1000	2/14/2021	<	9	39
MCW-15c (City)*	1000	2/15/2021	<	9	35
MCW-15c (City)*	1015	2/16/2021 ♦	<	9	31
MCW-15c (City)*	1015	2/17/2021	<	9	28
MCW-15c (City)*	1015	2/18/2021	<	9	26



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-15c (City)*	1015	2/19/2021		<	9	24
MCW-15c (City)*	1015	2/20/2021		<	9	22
MCW-15c (City)*	1015	2/21/2021		<	9	21
MCW-15c (City)*	1015	2/22/2021		<	9	19
MCW-15c (City)*	1030	2/23/2021 ♦		<	9	18
MCW-15c (City)*	1030	2/24/2021		<	9	17
MCW-15c (City)*	1030	2/25/2021		<	9	15
MCW-15c (City)*	1030	2/26/2021		<	9	14
MCW-15c (City)*	1030	2/27/2021		<	9	13
MCW-15c (City)*	1030	2/28/2021		<	9	12
MCW-17 (City and County)	-	2/1/2021	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	2/2/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	2/3/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/4/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/5/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/6/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/7/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/8/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/9/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	2/10/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/11/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/12/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/13/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/14/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/15/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/16/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	2/17/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/18/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/19/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/20/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/21/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/22/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/23/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	2/24/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/25/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/26/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/27/2021	Dry	<	9	9
MCW-17 (City and County)	-	2/28/2021	Dry	<	9	9
MCW-18 (County)	-	2/1/2021	Rain		**Rain**	**Rain**
MCW-18 (County)	-	2/2/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	2/3/2021	Dry	<	9	9
MCW-18 (County)	-	2/4/2021	Dry	<	9	9
MCW-18 (County)	-	2/5/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain		Single Sample (adjusted for rain, dry and NDs)	Geometric Mean
					E. coli (235 MPN)	E. coli (126 MPN)
MCW-18 (County)	-	2/6/2021	Dry	<	9	9
MCW-18 (County)	-	2/7/2021	Dry	<	9	9
MCW-18 (County)	-	2/8/2021	Dry	<	9	9
MCW-18 (County)	-	2/9/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	2/10/2021	Dry	<	9	9
MCW-18 (County)	-	2/11/2021	Dry	<	9	9
MCW-18 (County)	-	2/12/2021	Dry	<	9	9
MCW-18 (County)	-	2/13/2021	Dry	<	9	9
MCW-18 (County)	-	2/14/2021	Dry	<	9	9
MCW-18 (County)	-	2/15/2021	Dry	<	9	9
MCW-18 (County)	-	2/16/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	2/17/2021	Dry	<	9	9
MCW-18 (County)	-	2/18/2021	Dry	<	9	9
MCW-18 (County)	-	2/19/2021	Dry	<	9	9
MCW-18 (County)	-	2/20/2021	Dry	<	9	9
MCW-18 (County)	-	2/21/2021	Dry	<	9	9
MCW-18 (County)	-	2/22/2021	Dry	<	9	9
MCW-18 (County)	-	2/23/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	2/24/2021	Dry	<	9	9
MCW-18 (County)	-	2/25/2021	Dry	<	9	9
MCW-18 (County)	-	2/26/2021	Rain	<	9	9
MCW-18 (County)	-	2/27/2021	Rain	<	9	9
MCW-18 (County)	-	2/28/2021	Rain	<	9	9

Notes:

♦: Date of sampling

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in an MRL of 18 MPN/100 ml

Results of <18 MPN/100 ml are adjusted to use half the MRL (=9) in the calculation of the geometric mean. As such, Table 2 presents a value of 9 MPN/100mL to distinguish the value used for calculation of the 30-day geometric mean

Dry: Samples were not collected due to insufficient flow and a value of 9 MPN/100 ml (half the MRL) was used for calculation of the 30-day geometric mean

-: Time is not applicable, as no sample was collected due to insufficient flow

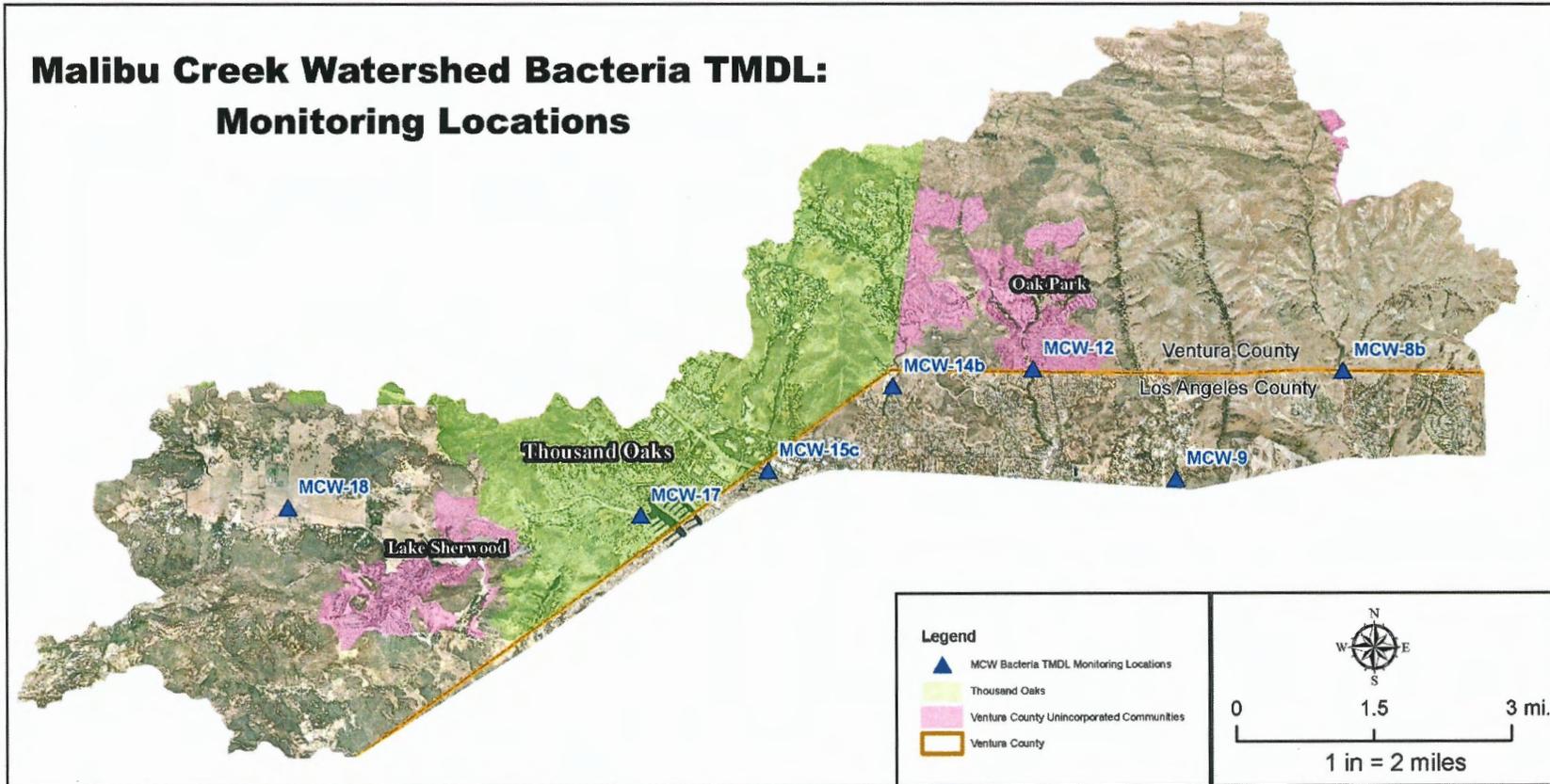
Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geometric mean.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010

'=\* : Samples collected on November 30, 2020 were not analyzed for E. coli. Table 1 presents results from Fecal Coliform analysis  
 a: Field personnel were unable to collect a sample at MCW-8b due to technical difficulties. The previous dry weather sample result is used in its place.





Central Services  
**Joan Araujo**, Director

Engineering Services  
**Christopher Cooper**, Director

Roads & Transportation  
**Chris Hooke**, Acting Director

Water & Sanitation  
**Joseph Pope**, Director

Watershed Protection  
**Glenn Shephard**, Director

April 26, 2021

VIA EMAIL

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013

Subject: Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring for County of Ventura, Ventura County Watershed Protection District, and City of Thousand Oaks

Dear Dr. Wang:

Please find attached the report for the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria Total Maximum Daily Load (TMDL) Compliance Monitoring Plan (CMP) for the month of March 2021. Sites were sampled weekly on Tuesday (March 2, 9, 16, 23 and 30). Beginning on and following July 23, 2019, Rincon Consultants Inc. has been retained to conduct compliance monitoring activities.

Table 1 presents the weekly sampling results, while Table 2 presents the rolling 30-day geometric means for the sampling locations. Sample collection dates are marked with a diamond (◆) symbol. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." A map showing the location of the monitoring sites is included below.

Daily geometric means for dry weather are calculated using the past 30 days of the respective sampling data (Table 2). Note that geometric means are not calculated for wet weather samples (collected less than 72 hours after a day with > 0.1" rain). Non-sampling-day values are assigned the value of the most recent sampling event. Half the method reporting limit (MRL) was used to calculate the daily geometric means for sites with results reported as non-detect (ND) [e.g., < 18 most probable number per 100 milliliters (MPN/100 ml)]. Statistics are also calculated for dry events at all sampling locations by assigning a concentration value of half the MRL, as a zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.



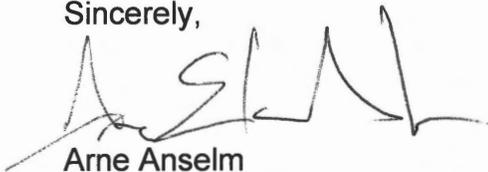
Due to regularly occurring high concentrations in analytical results, a dilution factor of 10 is applied to all samples to quantify results that exceed the standard upper reporting limit of a single dilution. As a result, the MRL for samples analyzed for this program is 18 MPN/100mL.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017.

Fecal coliform monitoring has been discontinued, as approved by the Los Angeles Regional Water Quality Control Board on October 31, 2014, in alignment with the Regional Board's removal of the fecal coliform objective for REC-1 freshwaters from the TMDL on June 7, 2012 and subsequent approval by the U.S. Environmental Protection Agency on July 2, 2014.

If you have any questions regarding this matter, please contact me at (805) 654-3942.

Sincerely,



Arne Anselm  
Deputy Director, Watershed Protection

CC: Glenn Shephard, Director, Watershed Protection (via email)  
Ewelina Mutkowska, County of Ventura (via email)  
Paul Jorgensen, City of Thousand Oaks (via email)  
Joe Bellomo, Willdan Associates (via email)  
Kelly Fisher, City of Agoura Hills (via email)  
Allen Ma, County of Los Angeles (via email)



**Table 1. Weekly sampling results**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (as sampled)	
					E. coli (235 MPN)
MCW-8b (County)	1340	3/2/2021 ♦		<	18
MCW-8b (County)	1200	3/9/2021 ♦		<	18
MCW-8b (County)	1505	3/16/2021 ♦	Rain	<	18
MCW-8b (County)	1320	3/23/2021 ♦		<	18
MCW-8b (County)	1320	3/30/2021 ♦		=	130
MCW-9 (County)	-	3/2/2021 ♦	Dry		Dry
MCW-9 (County)	-	3/9/2021 ♦	Dry		Dry
MCW-9 (County)	-	3/16/2021 ♦	Rain		Dry
MCW-9 (County)	-	3/23/2021 ♦	Dry		Dry
MCW-9 (County)	-	3/30/2021 ♦	Dry		Dry
MCW-12 (County)	1300	3/2/2021 ♦		=	40
MCW-12 (County)	1230	3/9/2021 ♦		=	68
MCW-12 (County)	1430	3/16/2021 ♦	Rain	=	20
MCW-12 (County)	1300	3/23/2021 ♦		=	78
MCW-12 (County)	1250	3/30/2021 ♦		=	170
MCW-14b (City and County)	1235	3/2/2021 ♦		=	61
MCW-14b (City and County)	1245	3/9/2021 ♦		=	130
MCW-14b (City and County)	1400	3/16/2021 ♦	Rain	=	330
MCW-14b (City and County)	1240	3/23/2021 ♦		=	330
MCW-14b (City and County)	1230	3/30/2021 ♦		=	140
MCW-15c (City)*	1210	3/2/2021 ♦		=	93
MCW-15c (City)*	1310	3/9/2021 ♦		=	45
MCW-15c (City)*	1330	3/16/2021 ♦	Rain	=	700
MCW-15c (City)*	1220	3/23/2021 ♦		<	18
MCW-15c (City)*	1210	3/30/2021 ♦		=	2,400
MCW-17 (City and County)	-	3/2/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	3/9/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	3/16/2021 ♦	Rain		Dry
MCW-17 (City and County)	-	3/23/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	3/30/2021 ♦	Dry		Dry
MCW-18 (County)	-	3/2/2021 ♦	Dry		Dry
MCW-18 (County)	-	3/9/2021 ♦	Dry		Dry
MCW-18 (County)	-	3/16/2021 ♦	Rain		Dry
MCW-18 (County)	-	3/23/2021 ♦	Dry		Dry
MCW-18 (County)	-	3/30/2021 ♦	Dry		Dry

Notes:

- \*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.
- ♦: Date of sampling
- : Time is not applicable, as no sample was collected due to insufficient flow
- Dry: Samples were not collected due to insufficient flow
- Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017
- A dilution factor of 10 is applied to all samples analyzed for this program, resulting in a MRL of 18 MPN/100 ml



**Table 2. Computation of daily geometric mean**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-8b (County)	1150	3/1/2021		=	20	11
MCW-8b (County)	1340	3/2/2021 ♦		<	9	11
MCW-8b (County)	1340	3/3/2021		<	9	11
MCW-8b (County)	1340	3/4/2021		<	9	11
MCW-8b (County)	1340	3/5/2021		<	9	11
MCW-8b (County)	1340	3/6/2021		<	9	11
MCW-8b (County)	1340	3/7/2021		<	9	11
MCW-8b (County)	1340	3/8/2021		<	9	11
MCW-8b (County)	1200	3/9/2021 ♦		<	9	11
MCW-8b (County)	1200	3/10/2021		<	9	11
MCW-8b (County)	1200	3/11/2021		<	9	11
MCW-8b (County)	1200	3/12/2021		<	9	11
MCW-8b (County)	1200	3/13/2021		<	9	11
MCW-8b (County)	1200	3/14/2021		<	9	11
MCW-8b (County)	1200	3/15/2021		<	9	11
MCW-8b (County)	1505	3/16/2021 ♦	Rain		**Rain**	**Rain**
MCW-8b (County)	1505	3/17/2021	Rain		**Rain**	**Rain**
MCW-8b (County)	1505	3/18/2021	Rain		**Rain**	**Rain**
MCW-8b (County)	1505	3/19/2021	Rain		**Rain**	**Rain**
MCW-8b (County)	1505	3/20/2021	Rain		**Rain**	**Rain**
MCW-8b (County)	1505	3/21/2021	Rain		**Rain**	**Rain**
MCW-8b (County)	1505	3/22/2021	Rain		**Rain**	**Rain**
MCW-8b (County)	1220	3/23/2021 ♦		<	9	11
MCW-8b (County)	1220	3/24/2021		<	9	11
MCW-8b (County)	1220	3/25/2021		<	9	11
MCW-8b (County)	1220	3/26/2021		<	9	11
MCW-8b (County)	1220	3/27/2021		<	9	11
MCW-8b (County)	1220	3/28/2021		<	9	11
MCW-8b (County)	1220	3/29/2021		<	9	11
MCW-8b (County)	1320	3/30/2021 ♦		=	130	12
MCW-8b (County)	1320	3/31/2021		=	130	13
MCW-9 (County)	-	3/1/2021	Dry	<	9	9
MCW-9 (County)	-	3/2/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	3/3/2021	Dry	<	9	9
MCW-9 (County)	-	3/4/2021	Dry	<	9	9
MCW-9 (County)	-	3/5/2021	Dry	<	9	9
MCW-9 (County)	-	3/6/2021	Dry	<	9	9
MCW-9 (County)	-	3/7/2021	Dry	<	9	9
MCW-9 (County)	-	3/8/2021	Dry	<	9	9
MCW-9 (County)	-	3/9/2021 ♦	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-9 (County)	-	3/10/2021	Dry	<	9	9
MCW-9 (County)	-	3/11/2021	Dry	<	9	9
MCW-9 (County)	-	3/12/2021	Dry	<	9	9
MCW-9 (County)	-	3/13/2021	Dry	<	9	9
MCW-9 (County)	-	3/14/2021	Dry	<	9	9
MCW-9 (County)	-	3/15/2021	Dry	<	9	9
MCW-9 (County)	-	3/16/2021 ♦	Rain		**Rain**	**Rain**
MCW-9 (County)	-	3/17/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	3/18/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	3/19/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	3/20/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	3/21/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	3/22/2021	Rain		**Rain**	**Rain**
MCW-9 (County)	-	3/23/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	3/24/2021	Dry	<	9	9
MCW-9 (County)	-	3/25/2021	Dry	<	9	9
MCW-9 (County)	-	3/26/2021	Dry	<	9	9
MCW-9 (County)	-	3/27/2021	Dry	<	9	9
MCW-9 (County)	-	3/28/2021	Dry	<	9	9
MCW-9 (County)	-	3/29/2021	Dry	<	9	9
MCW-9 (County)	-	3/30/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	3/31/2021	Dry	<	9	9
MCW-12 (County)	1150	3/1/2021		=	18	14
MCW-12 (County)	1150	3/2/2021 ♦		=	40	15
MCW-12 (County)	1150	3/3/2021		=	40	16
MCW-12 (County)	1150	3/4/2021		=	40	16
MCW-12 (County)	1150	3/5/2021		=	40	17
MCW-12 (County)	1150	3/6/2021		=	40	18
MCW-12 (County)	1150	3/7/2021		=	40	19
MCW-12 (County)	1150	3/8/2021		=	40	20
MCW-12 (County)	1230	3/9/2021 ♦		=	68	21
MCW-12 (County)	1230	3/10/2021		=	68	23
MCW-12 (County)	1230	3/11/2021		=	68	24
MCW-12 (County)	1230	3/12/2021		=	68	25
MCW-12 (County)	1230	3/13/2021		=	68	25
MCW-12 (County)	1230	3/14/2021		=	68	26
MCW-12 (County)	1230	3/15/2021		=	68	26
MCW-12 (County)	1430	3/16/2021 ♦	Rain		**Rain**	**Rain**
MCW-12 (County)	1430	3/17/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1430	3/18/2021	Rain		**Rain**	**Rain**
MCW-12 (County)	1430	3/19/2021	Rain		**Rain**	**Rain**



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-12 (County)	1430	3/20/2021	Rain	**Rain**	**Rain**	
MCW-12 (County)	1430	3/21/2021	Rain	**Rain**	**Rain**	
MCW-12 (County)	1430	3/22/2021	Rain	**Rain**	**Rain**	
MCW-12 (County)	1300	3/23/2021 ♦	=	78	27	
MCW-12 (County)	1300	3/24/2021	=	78	28	
MCW-12 (County)	1300	3/25/2021	=	78	30	
MCW-12 (County)	1300	3/26/2021	=	78	32	
MCW-12 (County)	1300	3/27/2021	=	78	34	
MCW-12 (County)	1300	3/28/2021	=	78	37	
MCW-12 (County)	1300	3/29/2021	=	78	40	
MCW-12 (County)	1250	3/30/2021 ♦	=	170	44	
MCW-12 (County)	1250	3/31/2021	=	170	48	
MCW-14b (City and County)	1100	3/1/2021	=	110	72	
MCW-14b (City and County)	1100	3/2/2021 ♦	=	61	67	
MCW-14b (City and County)	1100	3/3/2021	=	61	63	
MCW-14b (City and County)	1100	3/4/2021	=	61	62	
MCW-14b (City and County)	1100	3/5/2021	=	61	62	
MCW-14b (City and County)	1100	3/6/2021	=	61	62	
MCW-14b (City and County)	1100	3/7/2021	=	61	62	
MCW-14b (City and County)	1100	3/8/2021	=	61	61	
MCW-14b (City and County)	1245	3/9/2021 ♦	=	130	63	
MCW-14b (City and County)	1245	3/10/2021	=	130	64	
MCW-14b (City and County)	1245	3/11/2021	=	130	70	
MCW-14b (City and County)	1245	3/12/2021	=	130	77	
MCW-14b (City and County)	1245	3/13/2021	=	130	84	
MCW-14b (City and County)	1245	3/14/2021	=	130	92	
MCW-14b (City and County)	1245	3/15/2021	=	130	100	
MCW-14b (City and County)	1400	3/16/2021 ♦	Rain	**Rain**	**Rain**	
MCW-14b (City and County)	1400	3/17/2021	Rain	**Rain**	**Rain**	
MCW-14b (City and County)	1400	3/18/2021	Rain	**Rain**	**Rain**	
MCW-14b (City and County)	1400	3/19/2021	Rain	**Rain**	**Rain**	
MCW-14b (City and County)	1400	3/20/2021	Rain	**Rain**	**Rain**	
MCW-14b (City and County)	1400	3/21/2021	Rain	**Rain**	**Rain**	
MCW-14b (City and County)	1400	3/22/2021	Rain	**Rain**	**Rain**	
MCW-14b (City and County)	1240	3/23/2021 ♦	=	330	113	
MCW-14b (City and County)	1240	3/24/2021	=	330	127	
MCW-14b (City and County)	1240	3/25/2021	=	330	129	
MCW-14b (City and County)	1240	3/26/2021	=	330	130	
MCW-14b (City and County)	1240	3/27/2021	=	330	132	
MCW-14b (City and County)	1240	3/28/2021	=	330	134	



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-14b (City and County)	1240	3/29/2021		=	330	135
MCW-14b (City and County)	1230	3/30/2021 ♦		=	140	133
MCW-14b (City and County)	1230	3/31/2021		=	140	131
MCW-15c (City)*	1030	3/1/2021		<	9	11
MCW-15c (City)*	1210	3/2/2021 ♦		=	93	11
MCW-15c (City)*	1210	3/3/2021		=	93	11
MCW-15c (City)*	1210	3/4/2021		=	93	11
MCW-15c (City)*	1210	3/5/2021		=	93	12
MCW-15c (City)*	1210	3/6/2021		=	93	13
MCW-15c (City)*	1210	3/7/2021		=	93	14
MCW-15c (City)*	1210	3/8/2021		=	93	16
MCW-15c (City)*	1310	3/9/2021 ♦		=	45	16
MCW-15c (City)*	1310	3/10/2021		=	45	17
MCW-15c (City)*	1310	3/11/2021		=	45	18
MCW-15c (City)*	1310	3/12/2021		=	45	19
MCW-15c (City)*	1310	3/13/2021		=	45	20
MCW-15c (City)*	1310	3/14/2021		=	45	21
MCW-15c (City)*	1310	3/15/2021		=	45	23
MCW-15c (City)*	1505	3/16/2021 ♦	Rain		**Rain**	**Rain**
MCW-15c (City)*	1505	3/17/2021	Rain		**Rain**	**Rain**
MCW-15c (City)*	1505	3/18/2021	Rain		**Rain**	**Rain**
MCW-15c (City)*	1505	3/19/2021	Rain		**Rain**	**Rain**
MCW-15c (City)*	1505	3/20/2021	Rain		**Rain**	**Rain**
MCW-15c (City)*	1505	3/21/2021	Rain		**Rain**	**Rain**
MCW-15c (City)*	1505	3/22/2021	Rain		**Rain**	**Rain**
MCW-15c (City)*	1220	3/23/2021 ♦		<	9	23
MCW-15c (City)*	1220	3/24/2021		<	9	23
MCW-15c (City)*	1220	3/25/2021		<	9	23
MCW-15c (City)*	1220	3/26/2021		<	9	23
MCW-15c (City)*	1220	3/27/2021		<	9	23
MCW-15c (City)*	1220	3/28/2021		<	9	23
MCW-15c (City)*	1220	3/29/2021		<	9	23
MCW-15c (City)*	1210	3/30/2021 ♦		=	2,400	27
MCW-15c (City)*	1210	3/31/2021		=	2,400	33
MCW-17 (City and County)	-	3/1/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/2/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	3/3/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/4/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/5/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-17 (City and County)	-	3/6/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/7/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/8/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/9/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	3/10/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/11/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/12/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/13/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/14/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/15/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/16/2021 ♦	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	3/17/2021	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	3/18/2021	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	3/19/2021	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	3/20/2021	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	3/21/2021	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	3/22/2021	Rain		**Rain**	**Rain**
MCW-17 (City and County)	-	3/23/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	3/24/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/25/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/26/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/27/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/28/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/29/2021	Dry	<	9	9
MCW-17 (City and County)	-	3/30/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	3/31/2021	Dry	<	9	9
MCW-18 (County)	-	3/1/2021	Dry	<	9	9
MCW-18 (County)	-	3/2/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	3/3/2021	Dry	<	9	9
MCW-18 (County)	-	3/4/2021	Dry	<	9	9
MCW-18 (County)	-	3/5/2021	Dry	<	9	9
MCW-18 (County)	-	3/6/2021	Dry	<	9	9
MCW-18 (County)	-	3/7/2021	Dry	<	9	9
MCW-18 (County)	-	3/8/2021	Dry	<	9	9
MCW-18 (County)	-	3/9/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	3/10/2021	Dry	<	9	9
MCW-18 (County)	-	3/11/2021	Dry	<	9	9
MCW-18 (County)	-	3/12/2021	Dry	<	9	9
MCW-18 (County)	-	3/13/2021	Dry	<	9	9
MCW-18 (County)	-	3/14/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain		Single Sample (adjusted for rain, dry and NDs)	Geometric Mean
					E. coli (235 MPN)	E. coli (126 MPN)
MCW-18 (County)	-	3/15/2021	Dry	<	9	9
MCW-18 (County)	-	3/16/2021 ♦	Rain		**Rain**	**Rain**
MCW-18 (County)	-	3/17/2021	Rain		**Rain**	**Rain**
MCW-18 (County)	-	3/18/2021	Rain		**Rain**	**Rain**
MCW-18 (County)	-	3/19/2021	Rain		**Rain**	**Rain**
MCW-18 (County)	-	3/20/2021	Rain		**Rain**	**Rain**
MCW-18 (County)	-	3/21/2021	Rain		**Rain**	**Rain**
MCW-18 (County)	-	3/22/2021	Rain		**Rain**	**Rain**
MCW-18 (County)	-	3/23/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	3/24/2021	Dry	<	9	9
MCW-18 (County)	-	3/25/2021	Dry	<	9	9
MCW-18 (County)	-	3/26/2021	Dry	<	9	9
MCW-18 (County)	-	3/27/2021	Dry	<	9	9
MCW-18 (County)	-	3/28/2021	Dry	<	9	9
MCW-18 (County)	-	3/29/2021	Dry	<	9	9
MCW-18 (County)	-	3/30/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	3/31/2021	Dry	<	9	9

Notes:

♦: Date of sampling

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in an MRL of 18 MPN/100 ml

Results of <18 MPN/100 ml are adjusted to use half the MRL (=9) in the calculation of the geometric mean. As such, Table 2 presents a value of 9 MPN/100mL to distinguish the value used for calculation of the 30-day geometric mean

Dry: Samples were not collected due to insufficient flow and a value of 9 MPN/100 ml (half the MRL) was used for calculation of the 30-day geometric mean

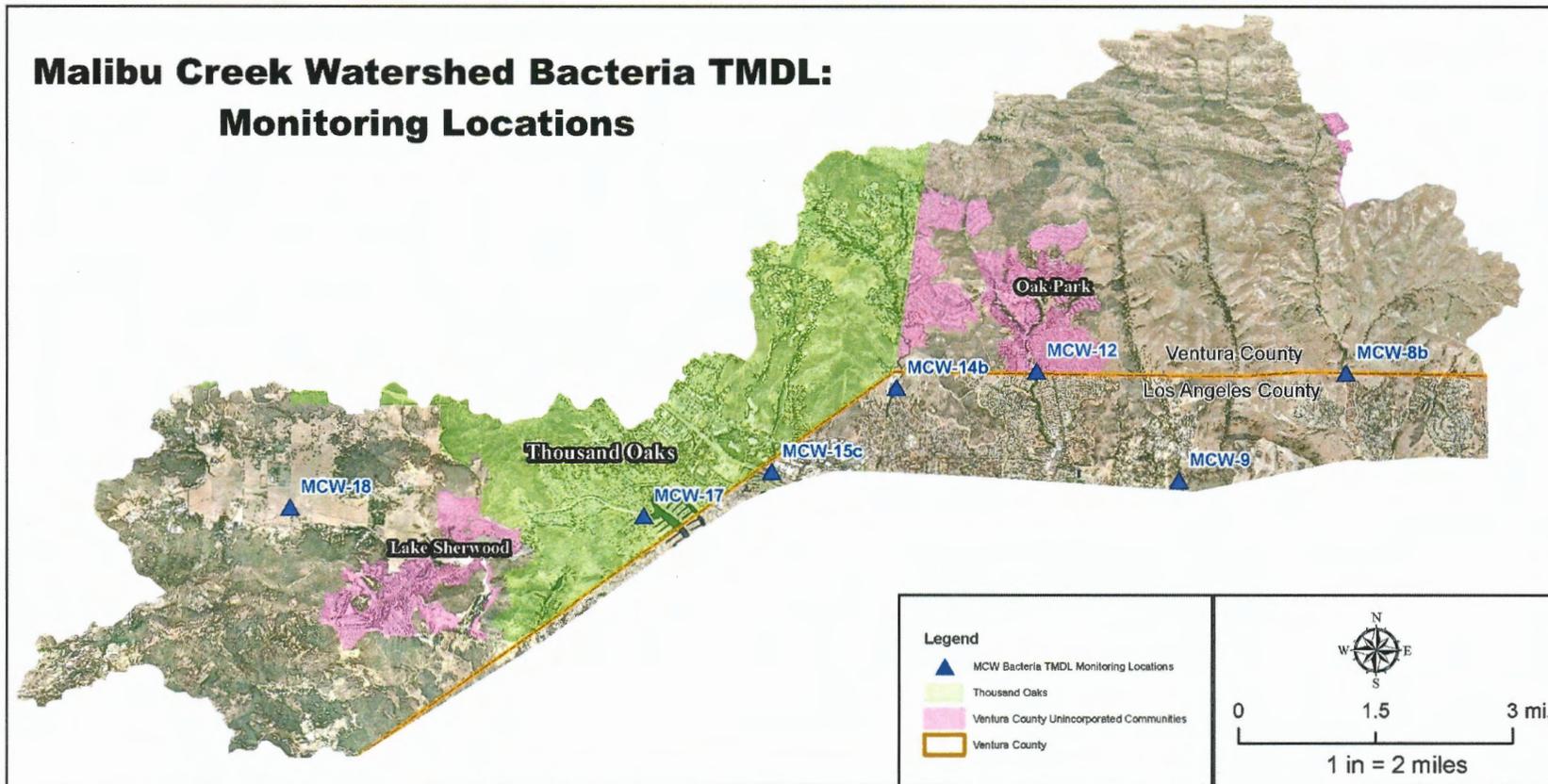
-: Time is not applicable, as no sample was collected due to insufficient flow

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geometric mean.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010





Central Services  
**Joan Araujo**, Director

Engineering Services  
**Christopher Cooper**, Director

Roads & Transportation  
**Chris Hooke**, Acting Director

Water & Sanitation  
**Joseph Pope**, Director

Watershed Protection  
**Glenn Shephard**, Director

May 26, 2021

VIA EMAIL

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013

Subject: Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring for County of Ventura, Ventura County Watershed Protection District, and City of Thousand Oaks

Dear Dr. Wang:

Please find attached the report for the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria Total Maximum Daily Load (TMDL) Compliance Monitoring Plan (CMP) for the month of April 2021. Sites were sampled weekly on Tuesday (April 6, 13, 20 and 27). Beginning on and following July 23, 2019, Rincon Consultants Inc. has been retained to conduct compliance monitoring activities.

Table 1 presents the weekly sampling results, while Table 2 presents the rolling 30-day geometric means for the sampling locations. Sample collection dates are marked with a diamond (◆) symbol. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." A map showing the location of the monitoring sites is included below.

Daily geometric means for dry weather are calculated using the past 30 days of the respective sampling data (Table 2). Note that geometric means are not calculated for wet weather samples (collected less than 72 hours after a day with > 0.1" rain). Non-sampling-day values are assigned the value of the most recent sampling event. Half the method reporting limit (MRL) was used to calculate the daily geometric means for sites with results reported as non-detect (ND) [e.g., < 18 most probable number per 100 milliliters (MPN/100 ml)]. Statistics are also calculated for dry events at all sampling locations by assigning a concentration value of half the MRL, as a zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.



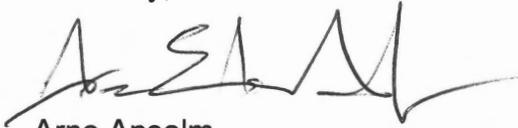
Due to regularly occurring high concentrations in analytical results, a dilution factor of 10 is applied to all samples to quantify results that exceed the standard upper reporting limit of a single dilution. As a result, the MRL for samples analyzed for this program is 18 MPN/100mL.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017.

Fecal coliform monitoring has been discontinued, as approved by the Los Angeles Regional Water Quality Control Board on October 31, 2014, in alignment with the Regional Board's removal of the fecal coliform objective for REC-1 freshwaters from the TMDL on June 7, 2012 and subsequent approval by the U.S. Environmental Protection Agency on July 2, 2014.

If you have any questions regarding this matter, please contact me at (805) 654-3942.

Sincerely,



Arne Anselm  
Deputy Director, Watershed Protection

CC: Glenn Shephard, Director, Watershed Protection (via email)  
Ewelina Mutkowska, County of Ventura (via email)  
Paul Jorgensen, City of Thousand Oaks (via email)  
Joe Bellomo, Willdan Associates (via email)  
Kelly Fisher, City of Agoura Hills (via email)  
Allen Ma, County of Los Angeles (via email)



**Table 1. Weekly sampling results**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (as sampled)	
					E. coli (235 MPN)
MCW-8b (County)	1435	4/6/2021 ♦		=	45
MCW-8b (County)	1250	4/13/2021 ♦		=	20
MCW-8b (County)	1355	4/20/2021 ♦		<	18
MCW-8b (County)	1400	4/27/2021 ♦		<	18
MCW-9 (County)	-	4/6/2021 ♦	Dry		Dry
MCW-9 (County)	-	4/13/2021 ♦	Dry		Dry
MCW-9 (County)	-	4/20/2021 ♦	Dry		Dry
MCW-9 (County)	-	4/27/2021 ♦	Dry		Dry
MCW-12 (County)	1400	4/6/2021 ♦		=	40
MCW-12 (County)	1210	4/13/2021 ♦		=	20
MCW-12 (County)	1310	4/20/2021 ♦		=	140
MCW-12 (County)	1325	4/27/2021 ♦		=	330
MCW-14b (City and County)	1325	4/6/2021 ♦		=	330
MCW-14b (City and County)	1245	4/13/2021 ♦		=	490
MCW-14b (City and County)	1425	4/20/2021 ♦		=	2,400
MCW-14b (City and County)	1300	4/27/2021 ♦		=	45
MCW-15c (City)*	1305	4/6/2021 ♦		=	220
MCW-15c (City)*	1355	4/13/2021 ♦		=	68
MCW-15c (City)*	1230	4/20/2021 ♦		=	78
MCW-15c (City)*	1210	4/27/2021 ♦		=	490
MCW-17 (City and County)	-	4/6/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	4/13/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	4/20/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	4/27/2021 ♦	Dry		Dry
MCW-18 (County)	-	4/6/2021 ♦	Dry		Dry
MCW-18 (County)	-	4/13/2021 ♦	Dry		Dry
MCW-18 (County)	-	4/20/2021 ♦	Dry		Dry
MCW-18 (County)	-	4/27/2021 ♦	Dry		Dry

Notes:

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦: Date of sampling

-: Time is not applicable, as no sample was collected due to insufficient flow

Dry: Samples were not collected due to insufficient flow

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in a MRL of 18 MPN/100 ml



**Table 2. Computation of daily geometric mean**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-8b (County)	1320	4/1/2021		=	130	14
MCW-8b (County)	1320	4/2/2021		=	130	15
MCW-8b (County)	1320	4/3/2021		=	130	16
MCW-8b (County)	1320	4/4/2021		=	130	17
MCW-8b (County)	1320	4/5/2021		=	130	18
MCW-8b (County)	1435	4/6/2021 ♦		=	45	18
MCW-8b (County)	1435	4/7/2021		=	45	19
MCW-8b (County)	1435	4/8/2021		=	45	20
MCW-8b (County)	1435	4/9/2021		=	45	21
MCW-8b (County)	1435	4/10/2021		=	45	22
MCW-8b (County)	1435	4/11/2021		=	45	23
MCW-8b (County)	1435	4/12/2021		=	45	24
MCW-8b (County)	1250	4/13/2021 ♦		=	20	25
MCW-8b (County)	1250	4/14/2021		=	20	26
MCW-8b (County)	1250	4/15/2021		=	20	26
MCW-8b (County)	1250	4/16/2021		=	20	27
MCW-8b (County)	1250	4/17/2021		=	20	28
MCW-8b (County)	1250	4/18/2021		=	20	29
MCW-8b (County)	1250	4/19/2021		=	20	29
MCW-8b (County)	1355	4/20/2021 ♦		<	9	29
MCW-8b (County)	1355	4/21/2021		<	9	29
MCW-8b (County)	1355	4/22/2021		<	9	29
MCW-8b (County)	1355	4/23/2021		<	9	29
MCW-8b (County)	1355	4/24/2021		<	9	29
MCW-8b (County)	1355	4/25/2021		<	9	29
MCW-8b (County)	1355	4/26/2021		<	9	29
MCW-8b (County)	1400	4/27/2021 ♦		<	9	29
MCW-8b (County)	1400	4/28/2021		<	9	29
MCW-8b (County)	1400	4/29/2021		<	9	27
MCW-8b (County)	1400	4/30/2021		<	9	25
MCW-9 (County)	-	4/1/2021	Dry	<	9	9
MCW-9 (County)	-	4/2/2021	Dry	<	9	9
MCW-9 (County)	-	4/3/2021	Dry	<	9	9
MCW-9 (County)	-	4/4/2021	Dry	<	9	9
MCW-9 (County)	-	4/5/2021	Dry	<	9	9
MCW-9 (County)	-	4/6/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	4/7/2021	Dry	<	9	9
MCW-9 (County)	-	4/8/2021	Dry	<	9	9
MCW-9 (County)	-	4/9/2021	Dry	<	9	9
MCW-9 (County)	-	4/10/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		
				E. coli (235 MPN)	Geometric Mean E. coli (126 MPN)	
MCW-9 (County)	-	4/11/2021	Dry	<	9	9
MCW-9 (County)	-	4/12/2021	Dry	<	9	9
MCW-9 (County)	-	4/13/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	4/14/2021	Dry	<	9	9
MCW-9 (County)	-	4/15/2021	Dry	<	9	9
MCW-9 (County)	-	4/16/2021	Dry	<	9	9
MCW-9 (County)	-	4/17/2021	Dry	<	9	9
MCW-9 (County)	-	4/18/2021	Dry	<	9	9
MCW-9 (County)	-	4/19/2021	Dry	<	9	9
MCW-9 (County)	-	4/20/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	4/21/2021	Dry	<	9	9
MCW-9 (County)	-	4/22/2021	Dry	<	9	9
MCW-9 (County)	-	4/23/2021	Dry	<	9	9
MCW-9 (County)	-	4/24/2021	Dry	<	9	9
MCW-9 (County)	-	4/25/2021	Dry	<	9	9
MCW-9 (County)	-	4/26/2021	Dry	<	9	9
MCW-9 (County)	-	4/27/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	4/28/2021	Dry	<	9	9
MCW-9 (County)	-	4/29/2021	Dry	<	9	9
MCW-9 (County)	-	4/30/2021	Dry	<	9	9
MCW-12 (County)	1250	4/1/2021		=	170	52
MCW-12 (County)	1250	4/2/2021		=	170	56
MCW-12 (County)	1250	4/3/2021		=	170	61
MCW-12 (County)	1250	4/4/2021		=	170	65
MCW-12 (County)	1250	4/5/2021		=	170	70
MCW-12 (County)	1400	4/6/2021 ♦		=	40	72
MCW-12 (County)	1400	4/7/2021		=	40	74
MCW-12 (County)	1400	4/8/2021		=	40	74
MCW-12 (County)	1400	4/9/2021		=	40	74
MCW-12 (County)	1400	4/10/2021		=	40	74
MCW-12 (County)	1400	4/11/2021		=	40	74
MCW-12 (County)	1400	4/12/2021		=	40	74
MCW-12 (County)	1250	4/13/2021 ♦		=	20	72
MCW-12 (County)	1250	4/14/2021		=	20	71
MCW-12 (County)	1250	4/15/2021		=	20	68
MCW-12 (County)	1250	4/16/2021		=	20	65
MCW-12 (County)	1250	4/17/2021		=	20	63
MCW-12 (County)	1250	4/18/2021		=	20	60
MCW-12 (County)	1250	4/19/2021		=	20	58
MCW-12 (County)	1310	4/20/2021 ♦		=	140	59
MCW-12 (County)	1310	4/21/2021		=	140	61



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-12 (County)	1310	4/22/2021	=	140	62	
MCW-12 (County)	1310	4/23/2021	=	140	63	
MCW-12 (County)	1310	4/24/2021	=	140	64	
MCW-12 (County)	1310	4/25/2021	=	140	66	
MCW-12 (County)	1310	4/26/2021	=	140	67	
MCW-12 (County)	1325	4/27/2021 ♦	=	330	70	
MCW-12 (County)	1325	4/28/2021	=	330	74	
MCW-12 (County)	1325	4/29/2021	=	330	75	
MCW-12 (County)	1325	4/30/2021	=	330	77	
MCW-14b (City and County)	1230	4/1/2021	=	140	132	
MCW-14b (City and County)	1230	4/2/2021	=	140	133	
MCW-14b (City and County)	1230	4/3/2021	=	140	134	
MCW-14b (City and County)	1230	4/4/2021	=	140	135	
MCW-14b (City and County)	1230	4/5/2021	=	140	136	
MCW-14b (City and County)	1325	4/6/2021 ♦	=	330	141	
MCW-14b (City and County)	1325	4/7/2021	=	330	147	
MCW-14b (City and County)	1325	4/8/2021	=	330	155	
MCW-14b (City and County)	1325	4/9/2021	=	330	164	
MCW-14b (City and County)	1325	4/10/2021	=	330	174	
MCW-14b (City and County)	1325	4/11/2021	=	330	184	
MCW-14b (City and County)	1325	4/12/2021	=	330	194	
MCW-14b (City and County)	1330	4/13/2021 ♦	=	490	208	
MCW-14b (City and County)	1330	4/14/2021	=	490	223	
MCW-14b (City and County)	1330	4/15/2021	=	490	233	
MCW-14b (City and County)	1330	4/16/2021	=	490	244	
MCW-14b (City and County)	1330	4/17/2021	=	490	255	
MCW-14b (City and County)	1330	4/18/2021	=	490	266	
MCW-14b (City and County)	1330	4/19/2021	=	490	278	
MCW-14b (City and County)	1425	4/20/2021 ♦	=	2,400	307	
MCW-14b (City and County)	1425	4/21/2021	=	2,400	338	
MCW-14b (City and County)	1425	4/22/2021	=	2,400	361	
MCW-14b (City and County)	1425	4/23/2021	=	2,400	386	
MCW-14b (City and County)	1425	4/24/2021	=	2,400	412	
MCW-14b (City and County)	1425	4/25/2021	=	2,400	441	
MCW-14b (City and County)	1425	4/26/2021	=	2,400	471	
MCW-14b (City and County)	1300	4/27/2021 ♦	=	45	440	
MCW-14b (City and County)	1300	4/28/2021	=	45	412	
MCW-14b (City and County)	1300	4/29/2021	=	45	397	
MCW-14b (City and County)	1300	4/30/2021	=	45	382	



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		
				E. coli (235 MPN)	Geometric Mean E. coli (126 MPN)	
MCW-15c (City)*	1210	4/1/2021	=	2,400	39	
MCW-15c (City)*	1210	4/2/2021	=	2,400	48	
MCW-15c (City)*	1210	4/3/2021	=	2,400	57	
MCW-15c (City)*	1210	4/4/2021	=	2,400	69	
MCW-15c (City)*	1210	4/5/2021	=	2,400	83	
MCW-15c (City)*	1305	4/6/2021 ♦	=	220	93	
MCW-15c (City)*	1305	4/7/2021	=	220	103	
MCW-15c (City)*	1305	4/8/2021	=	220	106	
MCW-15c (City)*	1305	4/9/2021	=	220	109	
MCW-15c (City)*	1305	4/10/2021	=	220	112	
MCW-15c (City)*	1305	4/11/2021	=	220	115	
MCW-15c (City)*	1305	4/12/2021	=	220	119	
MCW-15c (City)*	1355	4/13/2021 ♦	=	68	118	
MCW-15c (City)*	1355	4/14/2021	=	68	116	
MCW-15c (City)*	1355	4/15/2021	=	68	118	
MCW-15c (City)*	1355	4/16/2021	=	68	120	
MCW-15c (City)*	1355	4/17/2021	=	68	121	
MCW-15c (City)*	1355	4/18/2021	=	68	123	
MCW-15c (City)*	1355	4/19/2021	=	68	125	
MCW-15c (City)*	1230	4/20/2021 ♦	=	78	127	
MCW-15c (City)*	1230	4/21/2021	=	78	129	
MCW-15c (City)*	1230	4/22/2021	=	78	139	
MCW-15c (City)*	1230	4/23/2021	=	78	149	
MCW-15c (City)*	1230	4/24/2021	=	78	160	
MCW-15c (City)*	1230	4/25/2021	=	78	172	
MCW-15c (City)*	1230	4/26/2021	=	78	185	
MCW-15c (City)*	1210	4/27/2021 ♦	=	490	212	
MCW-15c (City)*	1210	4/28/2021	=	490	242	
MCW-15c (City)*	1210	4/29/2021	=	490	229	
MCW-15c (City)*	1210	4/30/2021	=	490	218	
MCW-17 (City and County)	-	4/1/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/2/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/3/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/4/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/5/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/6/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	4/7/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/8/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/9/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/10/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-17 (City and County)	-	4/11/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/12/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/13/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	4/14/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/15/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/16/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/17/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/18/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/19/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/20/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	4/21/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/22/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/23/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/24/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/25/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/26/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/27/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	4/28/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/29/2021	Dry	<	9	9
MCW-17 (City and County)	-	4/30/2021	Dry	<	9	9
MCW-18 (County)	-	4/1/2021	Dry	<	9	9
MCW-18 (County)	-	4/2/2021	Dry	<	9	9
MCW-18 (County)	-	4/3/2021	Dry	<	9	9
MCW-18 (County)	-	4/4/2021	Dry	<	9	9
MCW-18 (County)	-	4/5/2021	Dry	<	9	9
MCW-18 (County)	-	4/6/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	4/7/2021	Dry	<	9	9
MCW-18 (County)	-	4/8/2021	Dry	<	9	9
MCW-18 (County)	-	4/9/2021	Dry	<	9	9
MCW-18 (County)	-	4/10/2021	Dry	<	9	9
MCW-18 (County)	-	4/11/2021	Dry	<	9	9
MCW-18 (County)	-	4/12/2021	Dry	<	9	9
MCW-18 (County)	-	4/13/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	4/14/2021	Dry	<	9	9
MCW-18 (County)	-	4/15/2021	Dry	<	9	9
MCW-18 (County)	-	4/16/2021	Dry	<	9	9
MCW-18 (County)	-	4/17/2021	Dry	<	9	9
MCW-18 (County)	-	4/18/2021	Dry	<	9	9
MCW-18 (County)	-	4/19/2021	Dry	<	9	9
MCW-18 (County)	-	4/20/2021 ♦	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-18 (County)	-	4/21/2021	Dry	<	9	9
MCW-18 (County)	-	4/22/2021	Dry	<	9	9
MCW-18 (County)	-	4/23/2021	Dry	<	9	9
MCW-18 (County)	-	4/24/2021	Dry	<	9	9
MCW-18 (County)	-	4/25/2021	Dry	<	9	9
MCW-18 (County)	-	4/26/2021	Dry	<	9	9
MCW-18 (County)	-	4/27/2021 ♦	Dry	<	9	9
MCW-18 (County)	-	4/28/2021	Dry	<	9	9
MCW-18 (County)	-	4/29/2021	Dry	<	9	9
MCW-18 (County)	-	4/30/2021	Dry	<	9	9

Notes:

♦: Date of sampling

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in an MRL of 18 MPN/100 ml

Results of <18 MPN/100 ml are adjusted to use half the MRL (=9) in the calculation of the geometric mean. As such, Table 2 presents a value of 9 MPN/100mL to distinguish the value used for calculation of the 30-day geometric mean

Dry: Samples were not collected due to insufficient flow and a value of 9 MPN/100 ml (half the MRL) was used for calculation of the 30-day geometric mean

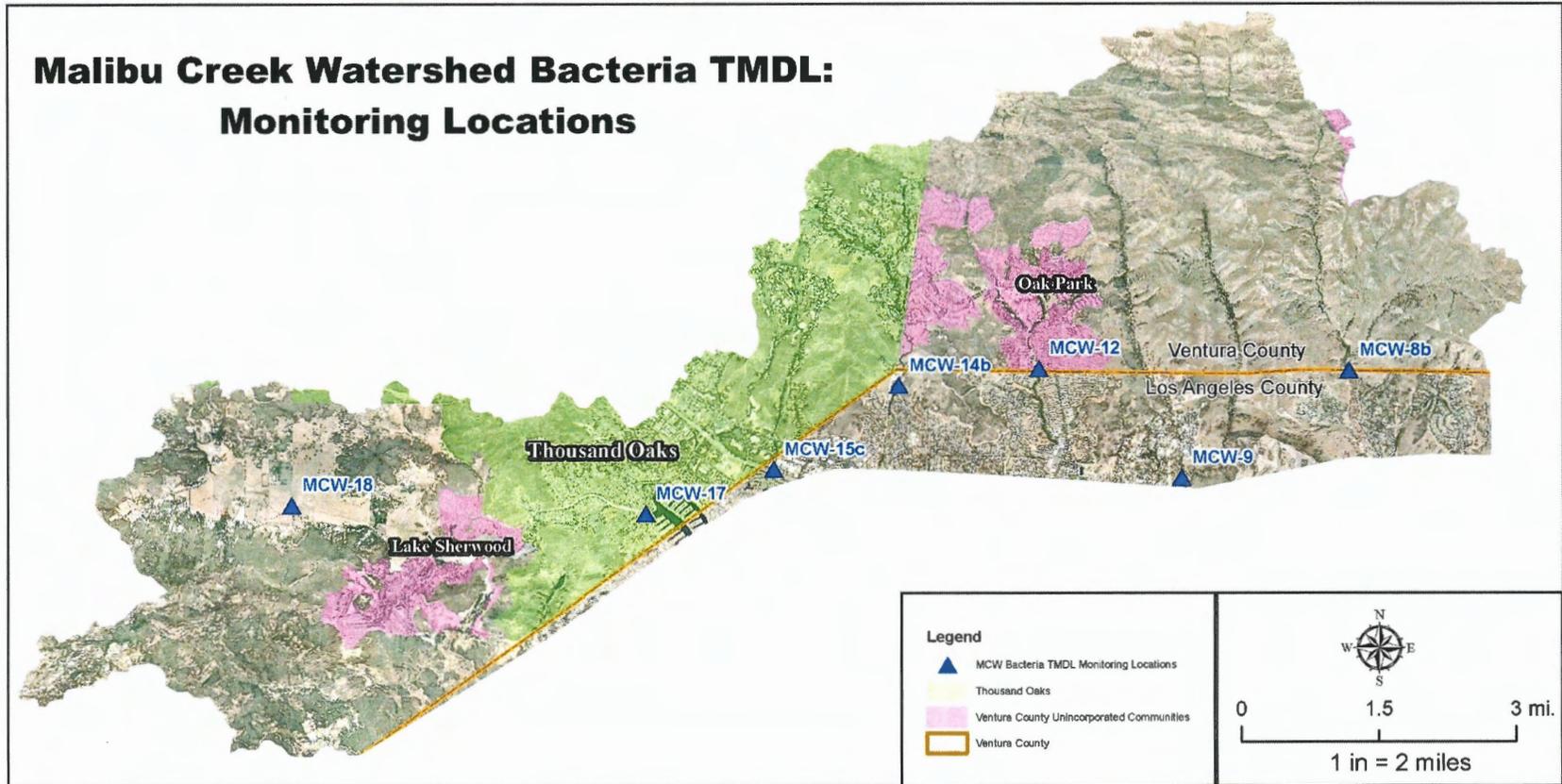
-: Time is not applicable, as no sample was collected due to insufficient flow

Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geometric mean.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010





Central Services  
Joan Araujo, Director

Engineering Services  
Christopher Cooper, Director

Roads & Transportation  
Chris Hooke, Acting Director

Water & Sanitation  
Joseph Pope, Director

Watershed Protection  
Glenn Shephard, Director

June 24, 2021

VIA EMAIL

Kangshi Wang, Ph.D.  
California Regional Water Quality Control Board  
Los Angeles Region  
Standards & TMDL Unit  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013

Subject: Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring for County of Ventura, Ventura County Watershed Protection District, and City of Thousand Oaks

Dear Dr. Wang:

Please find attached the report for the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria Total Maximum Daily Load (TMDL) Compliance Monitoring Plan (CMP) for the month of May 2021. Sites were sampled weekly on Tuesday (May 4, 11, 18 and 25). Beginning on and following July 23, 2019, Rincon Consultants Inc. has been retained to conduct compliance monitoring activities.

Table 1 presents the weekly sampling results, while Table 2 presents the rolling 30-day geometric means for the sampling locations. Sample collection dates are marked with a diamond (◆) symbol. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." A map showing the location of the monitoring sites is included below.

Daily geometric means for dry weather are calculated using the past 30 days of the respective sampling data (Table 2). Note that geometric means are not calculated for wet weather samples (collected less than 72 hours after a day with > 0.1" rain). Non-sampling-day values are assigned the value of the most recent sampling event. Half the method reporting limit (MRL) was used to calculate the daily geometric means for sites with results reported as non-detect (ND) [e.g., < 18 most probable number per 100 milliliters (MPN/100 ml)]. Statistics are also calculated for dry events at all sampling locations by assigning a concentration value of half the MRL, as a zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.



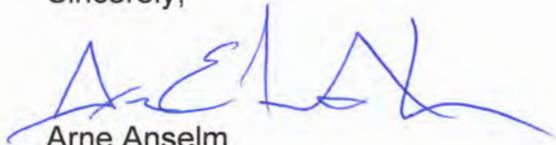
Due to regularly occurring high concentrations in analytical results, a dilution factor of 10 is applied to all samples to quantify results that exceed the standard upper reporting limit of a single dilution. As a result, the MRL for samples analyzed for this program is 18 MPN/100mL.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017.

Fecal coliform monitoring has been discontinued, as approved by the Los Angeles Regional Water Quality Control Board on October 31, 2014, in alignment with the Regional Board's removal of the fecal coliform objective for REC-1 freshwaters from the TMDL on June 7, 2012 and subsequent approval by the U.S. Environmental Protection Agency on July 2, 2014.

If you have any questions regarding this matter, please contact me at (805) 654-3942.

Sincerely,



Arne Anselm  
Deputy Director, Watershed Protection

CC: Glenn Shephard, Director, Watershed Protection (via email)  
Ewelina Mutkowska, County of Ventura (via email)  
Paul Jorgensen, City of Thousand Oaks (via email)  
Joe Bellomo, Willdan Associates (via email)  
Kelly Fisher, City of Agoura Hills (via email)  
Allen Ma, County of Los Angeles (via email)



**Table 1. Weekly sampling results**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (as sampled)	
					E. coli (235 MPN)
MCW-8b (County)	1425	5/4/2021 ♦		<	18
MCW-8b (County)	1400	5/11/2021 ♦		=	130
MCW-8b (County)	1400	5/18/2021 ♦		<	18
MCW-8b (County)	1345	5/25/2021 ♦		=	20
MCW-9 (County)	-	5/4/2021 ♦	Dry		Dry
MCW-9 (County)	-	5/11/2021 ♦	Dry		Dry
MCW-9 (County)	-	5/18/2021 ♦	Dry		Dry
MCW-9 (County)	-	5/25/2021 ♦	Dry		Dry
MCW-12 (County)	1350	5/4/2021 ♦		=	45
MCW-12 (County)	1325	5/11/2021 ♦		=	1,300
MCW-12 (County)	1340	5/18/2021 ♦		=	790
MCW-12 (County)	1315	5/25/2021 ♦		=	110
MCW-14b (City and County)	1325	5/4/2021 ♦		=	78
MCW-14b (City and County)	1258	5/11/2021 ♦		=	460
MCW-14b (City and County)	1320	5/18/2021 ♦		=	490
MCW-14b (City and County)	1240	5/25/2021 ♦		=	330
MCW-15c (City)*	1300	5/4/2021 ♦		=	460
MCW-15c (City)*	1235	5/11/2021 ♦		=	490
MCW-15c (City)*	-	5/18/2021 ♦	Dry		Dry
MCW-15c (City)*	-	5/25/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	5/4/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	5/11/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	5/18/2021 ♦	Dry		Dry
MCW-17 (City and County)	-	5/25/2021 ♦	Dry		Dry
MCW-18 (County)	-	5/4/2021 ♦	Dry		Dry
MCW-18 (County)	-	5/11/2021 ♦	Dry		Dry
MCW-18 (County)	-	5/18/2021 ♦	Dry		Dry
MCW-18 (County)	-	5/25/2021 ♦	Dry		Dry

Notes:

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010.

♦: Date of sampling

-: Time is not applicable, as no sample was collected due to insufficient flow

Dry: Samples were not collected due to insufficient flow

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in a MRL of 18 MPN/100 ml



**Table 2. Computation of daily geometric mean**

Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-8b (County)	1400	5/1/2021		<	9	23
MCW-8b (County)	1400	5/2/2021		<	9	21
MCW-8b (County)	1400	5/3/2021		<	9	19
MCW-8b (County)	1425	5/4/2021 ♦		<	9	17
MCW-8b (County)	1425	5/5/2021		<	9	16
MCW-8b (County)	1425	5/6/2021		<	9	15
MCW-8b (County)	1425	5/7/2021		<	9	14
MCW-8b (County)	1425	5/8/2021		<	9	13
MCW-8b (County)	1425	5/9/2021		<	9	13
MCW-8b (County)	1425	5/10/2021		<	9	12
MCW-8b (County)	1400	5/11/2021 ♦		=	130	13
MCW-8b (County)	1400	5/12/2021		=	130	13
MCW-8b (County)	1400	5/13/2021		=	130	14
MCW-8b (County)	1400	5/14/2021		=	130	15
MCW-8b (County)	1400	5/15/2021		=	130	16
MCW-8b (County)	1400	5/16/2021		=	130	17
MCW-8b (County)	1400	5/17/2021		=	130	18
MCW-8b (County)	1400	5/18/2021 ♦		<	9	17
MCW-8b (County)	1400	5/19/2021		<	9	17
MCW-8b (County)	1400	5/20/2021		<	9	17
MCW-8b (County)	1400	5/21/2021		<	9	17
MCW-8b (County)	1400	5/22/2021		<	9	17
MCW-8b (County)	1400	5/23/2021		<	9	17
MCW-8b (County)	1400	5/24/2021		<	9	17
MCW-8b (County)	1345	5/25/2021 ♦		=	20	17
MCW-8b (County)	1345	5/26/2021		=	20	18
MCW-8b (County)	1345	5/27/2021		=	20	18
MCW-8b (County)	1345	5/28/2021		=	20	19
MCW-8b (County)	1345	5/29/2021		=	20	19
MCW-8b (County)	1345	5/30/2021		=	20	20
MCW-8b (County)	1345	5/31/2021		=	20	20
MCW-9 (County)	-	5/1/2021	Dry	<	9	9
MCW-9 (County)	-	5/2/2021	Dry	<	9	9
MCW-9 (County)	-	5/3/2021	Dry	<	9	9
MCW-9 (County)	-	5/4/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	5/5/2021	Dry	<	9	9
MCW-9 (County)	-	5/6/2021	Dry	<	9	9
MCW-9 (County)	-	5/7/2021	Dry	<	9	9
MCW-9 (County)	-	5/8/2021	Dry	<	9	9
MCW-9 (County)	-	5/9/2021	Dry	<	9	9



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-9 (County)	-	5/10/2021	Dry	<	9	9
MCW-9 (County)	-	5/11/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	5/12/2021	Dry	<	9	9
MCW-9 (County)	-	5/13/2021	Dry	<	9	9
MCW-9 (County)	-	5/14/2021	Dry	<	9	9
MCW-9 (County)	-	5/15/2021	Dry	<	9	9
MCW-9 (County)	-	5/16/2021	Dry	<	9	9
MCW-9 (County)	-	5/17/2021	Dry	<	9	9
MCW-9 (County)	-	5/18/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	5/19/2021	Dry	<	9	9
MCW-9 (County)	-	5/20/2021	Dry	<	9	9
MCW-9 (County)	-	5/21/2021	Dry	<	9	9
MCW-9 (County)	-	5/22/2021	Dry	<	9	9
MCW-9 (County)	-	5/23/2021	Dry	<	9	9
MCW-9 (County)	-	5/24/2021	Dry	<	9	9
MCW-9 (County)	-	5/25/2021 ♦	Dry	<	9	9
MCW-9 (County)	-	5/26/2021	Dry	<	9	9
MCW-9 (County)	-	5/27/2021	Dry	<	9	9
MCW-9 (County)	-	5/28/2021	Dry	<	9	9
MCW-9 (County)	-	5/29/2021	Dry	<	9	9
MCW-9 (County)	-	5/30/2021	Dry	<	9	9
MCW-9 (County)	-	5/31/2021	Dry	<	9	9
MCW-12 (County)	1325	5/1/2021		=	330	79
MCW-12 (County)	1325	5/2/2021		=	330	80
MCW-12 (County)	1325	5/3/2021		=	330	82
MCW-12 (County)	1350	5/4/2021 ♦		=	45	79
MCW-12 (County)	1350	5/5/2021		=	45	75
MCW-12 (County)	1350	5/6/2021		=	45	75
MCW-12 (County)	1350	5/7/2021		=	45	76
MCW-12 (County)	1350	5/8/2021		=	45	76
MCW-12 (County)	1350	5/9/2021		=	45	76
MCW-12 (County)	1350	5/10/2021		=	45	77
MCW-12 (County)	1325	5/11/2021 ♦		=	1,300	86
MCW-12 (County)	1325	5/12/2021		=	1,300	97
MCW-12 (County)	1325	5/13/2021		=	1,300	111
MCW-12 (County)	1325	5/14/2021		=	1,300	128
MCW-12 (County)	1325	5/15/2021		=	1,300	147
MCW-12 (County)	1325	5/16/2021		=	1,300	169
MCW-12 (County)	1325	5/17/2021		=	1,300	194
MCW-12 (County)	1340	5/18/2021 ♦		=	790	219
MCW-12 (County)	1340	5/19/2021		=	790	248



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)
MCW-12 (County)	1340	5/20/2021	=	790	262
MCW-12 (County)	1340	5/21/2021	=	790	278
MCW-12 (County)	1340	5/22/2021	=	790	294
MCW-12 (County)	1340	5/23/2021	=	790	312
MCW-12 (County)	1340	5/24/2021	=	790	331
MCW-12 (County)	1315	5/25/2021 ♦	=	110	328
MCW-12 (County)	1315	5/26/2021	=	110	325
MCW-12 (County)	1315	5/27/2021	=	110	314
MCW-12 (County)	1315	5/28/2021	=	110	302
MCW-12 (County)	1315	5/29/2021	=	110	291
MCW-12 (County)	1315	5/30/2021	=	110	281
MCW-12 (County)	1315	5/31/2021	=	110	271
MCW-14b (City and County)	1300	5/1/2021	=	45	368
MCW-14b (City and County)	1300	5/2/2021	=	45	354
MCW-14b (City and County)	1300	5/3/2021	=	45	341
MCW-14b (City and County)	1325	5/4/2021 ♦	=	78	335
MCW-14b (City and County)	1325	5/5/2021	=	78	328
MCW-14b (City and County)	1325	5/6/2021	=	78	313
MCW-14b (City and County)	1325	5/7/2021	=	78	298
MCW-14b (City and County)	1325	5/8/2021	=	78	284
MCW-14b (City and County)	1325	5/9/2021	=	78	271
MCW-14b (City and County)	1325	5/10/2021	=	78	258
MCW-14b (City and County)	1258	5/11/2021 ♦	=	460	261
MCW-14b (City and County)	1258	5/12/2021	=	460	264
MCW-14b (City and County)	1258	5/13/2021	=	460	263
MCW-14b (City and County)	1258	5/14/2021	=	460	263
MCW-14b (City and County)	1258	5/15/2021	=	460	262
MCW-14b (City and County)	1258	5/16/2021	=	460	262
MCW-14b (City and County)	1258	5/17/2021	=	460	261
MCW-14b (City and County)	1320	5/18/2021 ♦	=	490	261
MCW-14b (City and County)	1320	5/19/2021	=	490	261
MCW-14b (City and County)	1320	5/20/2021	=	490	248
MCW-14b (City and County)	1320	5/21/2021	=	490	235
MCW-14b (City and County)	1320	5/22/2021	=	490	223
MCW-14b (City and County)	1320	5/23/2021	=	490	211
MCW-14b (City and County)	1320	5/24/2021	=	490	200
MCW-14b (City and County)	1240	5/25/2021 ♦	=	330	187
MCW-14b (City and County)	1240	5/26/2021	=	330	175
MCW-14b (City and County)	1240	5/27/2021	=	330	188
MCW-14b (City and County)	1240	5/28/2021	=	330	200



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-14b (City and County)	1240	5/29/2021	=	330	214	
MCW-14b (City and County)	1240	5/30/2021	=	330	229	
MCW-14b (City and County)	1240	5/31/2021	=	330	245	
MCW-15c (City)*	1210	5/1/2021	=	490	206	
MCW-15c (City)*	1210	5/2/2021	=	490	196	
MCW-15c (City)*	1210	5/3/2021	=	490	186	
MCW-15c (City)*	1300	5/4/2021 ♦	=	460	176	
MCW-15c (City)*	1300	5/5/2021	=	460	166	
MCW-15c (City)*	1300	5/6/2021	=	460	170	
MCW-15c (City)*	1300	5/7/2021	=	460	175	
MCW-15c (City)*	1300	5/8/2021	=	460	179	
MCW-15c (City)*	1300	5/9/2021	=	460	183	
MCW-15c (City)*	1300	5/10/2021	=	460	188	
MCW-15c (City)*	1235	5/11/2021 ♦	=	490	193	
MCW-15c (City)*	1235	5/12/2021	=	490	198	
MCW-15c (City)*	1235	5/13/2021	=	490	212	
MCW-15c (City)*	1235	5/14/2021	=	490	226	
MCW-15c (City)*	1235	5/15/2021	=	490	242	
MCW-15c (City)*	1235	5/16/2021	=	490	258	
MCW-15c (City)*	1235	5/17/2021	=	490	276	
MCW-15c (City)*	-	5/18/2021 ♦	Dry	< 9	258	
MCW-15c (City)*	-	5/19/2021	Dry	< 9	241	
MCW-15c (City)*	-	5/20/2021	Dry	< 9	224	
MCW-15c (City)*	-	5/21/2021	Dry	< 9	209	
MCW-15c (City)*	-	5/22/2021	Dry	< 9	194	
MCW-15c (City)*	-	5/23/2021	Dry	< 9	181	
MCW-15c (City)*	-	5/24/2021	Dry	< 9	168	
MCW-15c (City)*	-	5/25/2021 ♦	Dry	< 9	156	
MCW-15c (City)*	-	5/26/2021	Dry	< 9	146	
MCW-15c (City)*	-	5/27/2021	Dry	< 9	127	
MCW-15c (City)*	-	5/28/2021	Dry	< 9	112	
MCW-15c (City)*	-	5/29/2021	Dry	< 9	98	
MCW-15c (City)*	-	5/30/2021	Dry	< 9	85	
MCW-15c (City)*	-	5/31/2021	Dry	< 9	75	
MCW-17 (City and County)	-	5/1/2021	Dry	< 9	9	
MCW-17 (City and County)	-	5/2/2021	Dry	< 9	9	
MCW-17 (City and County)	-	5/3/2021	Dry	< 9	9	
MCW-17 (City and County)	-	5/4/2021 ♦	Dry	< 9	9	
MCW-17 (City and County)	-	5/5/2021	Dry	< 9	9	



Location (Jurisdiction)	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geometric Mean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-17 (City and County)	-	5/6/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/7/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/8/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/9/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/10/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/11/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	5/12/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/13/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/14/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/15/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/16/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/17/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/18/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	5/19/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/20/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/21/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/22/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/23/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/24/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/25/2021 ♦	Dry	<	9	9
MCW-17 (City and County)	-	5/26/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/27/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/28/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/29/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/30/2021	Dry	<	9	9
MCW-17 (City and County)	-	5/31/2021	Dry	<	9	9

Notes:

♦: Date of sampling

A dilution factor of 10 is applied to all samples analyzed for this program, resulting in an MRL of 18 MPN/100 ml

Results of <18 MPN/100 ml are adjusted to use half the MRL (=9) in the calculation of the geometric mean. As such, Table 2 presents a value of 9 MPN/100mL to distinguish the value used for calculation of the 30-day geometric mean

Dry: Samples were not collected due to insufficient flow and a value of 9 MPN/100 ml (half the MRL) was used for calculation of the 30-day geometric mean

-: Time is not applicable, as no sample was collected due to insufficient flow

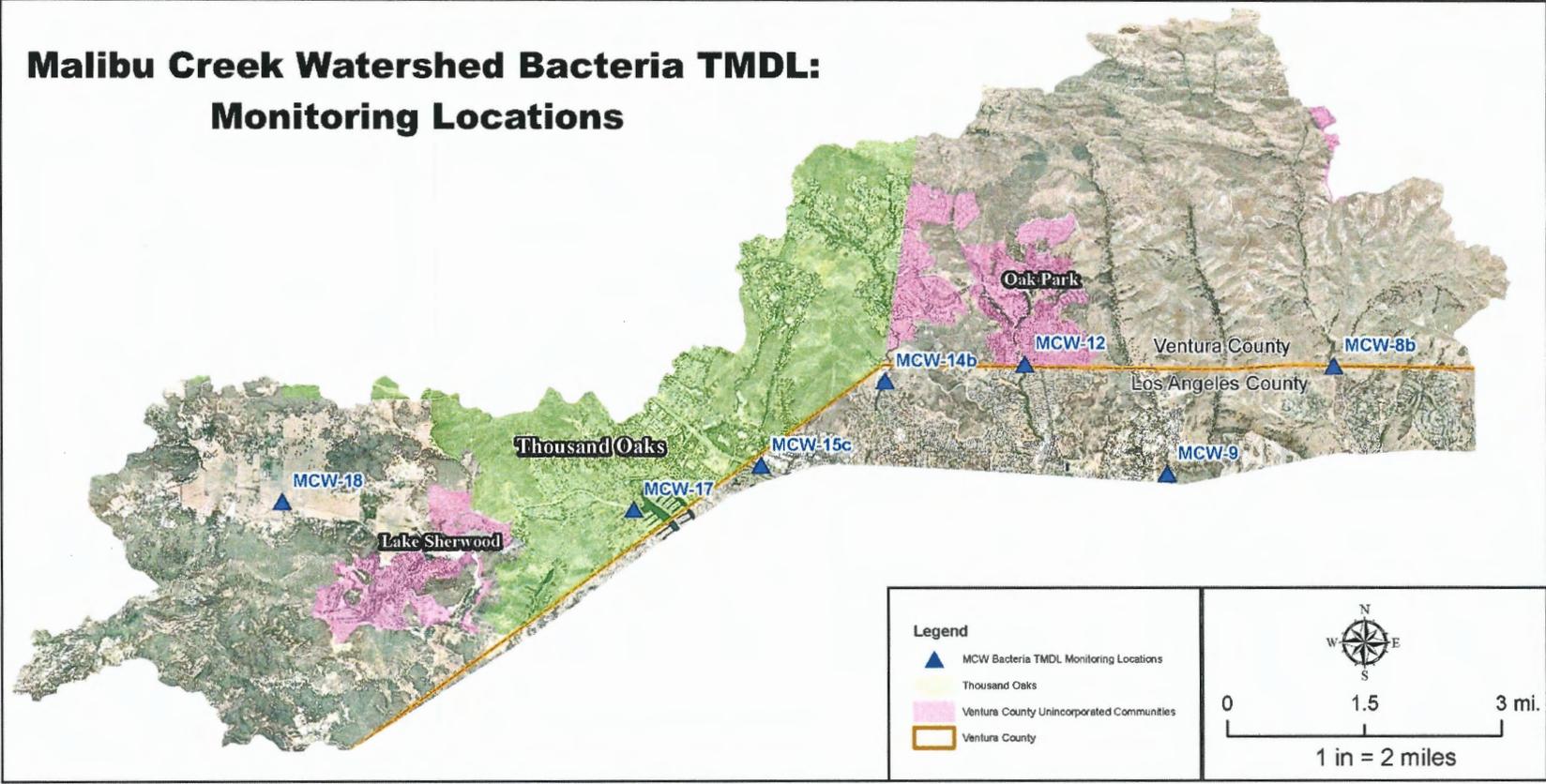
Weeks with wet weather samples (collected less than 72 hours after a day with >0.1" rain) use the previous non-rain single sample value to calculate the geometric mean.

Coliform tables from SM9221 in standard methods 22nd and 23rd have been adopted thus changing the reporting limit from 2.0 MPN/100 ml to 1.8 MPN/100 ml as of November 7, 2017

\*: The RWQCB granted permission to replace site MCW-15b with site Special-05 (renamed MCW-15c) on August 11th, 2010



### Malibu Creek Watershed Bacteria TMDL: Monitoring Locations





June 15, 2021

LB Nye, Regional Program Chief  
Regional Water Quality Control Board  
Los Angeles Region  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013

Subject: 2021 SEMI-ANNUAL MONITORING REPORT FOR SANTA CLARA RIVER  
BACTERIA TOTAL MAXIMUM DAILY LOAD

Dear Ms. Nye,

The Santa Clara River (SCR) Estuary and Reaches 3, 5, 6, and 7 Indicator Bacteria Total Maximum Daily Load (Bacteria TMDL) was adopted by the Los Angeles Regional Water Quality Control Board (Regional Water Board) on July 8, 2010 and came into effect on March 21, 2012. The Bacteria TMDL incorporates the reaches listed on the 303(d) list, Reach 3 which was added to the 303(d) list in the 2016 Integrated Report, and all tributaries to the impaired SCR reaches.

The Cities of Fillmore, Oxnard, Santa Paula, and Ventura, and the County of Ventura are working collaboratively to implement Bacteria TMDL requirements for the lower SCR to address impairments to the SCR Estuary and Reach 3. The Bacteria TMDL required an in-stream compliance bacteria water quality Monitoring Plan, as well as an Implementation Plan (including an Outfall Monitoring Plan) to outline how the TMDL Responsible Agencies will achieve compliance with the Bacteria TMDL Waste Load Allocations and Load Allocations for the lower Santa Clara River. In accordance with the *Bacteria TMDL final in-stream Compliance Monitoring Plan* (CMP), in-stream monitoring for the Reach 3 (SCRR3-RW1) and SCR Estuary (SCRE-R005) has been conducted since October 11, 2016. The Regional Water Board accepted the *Implementation Plan for the Lower Santa Clara River Watershed* (Implementation Plan) in a letter dated December 26, 2017, and following an extension granted by Ms. Newman on May 25, 2018, the outfall monitoring has been conducted in accordance with the Implementation Plan's Outfall Monitoring Plan at five jurisdictional outfalls since September 18, 2018.<sup>1</sup>

This semi-annual report presents monitoring results for sampling events completed between November 3, 2020 and May 3, 2021. The attached tables summarize the results of weekly monitoring required by the CMP and monthly monitoring required by the Outfall Monitoring Plan. Weekly sampling occurs on Tuesdays at in-stream receiving water monitoring locations, and monthly at the six jurisdictional outfall monitoring locations (in coordination with in-stream receiving water monitoring activities).

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<sup>1</sup> One jurisdictional outfall was selected per agency in Fillmore, Santa Paula, Ventura, Oxnard, and County unincorporated Saticoy (MO-FIL, -SPA, -VEN, -SRG, and -SAT respectively)

Table 1 displays the semi-annual sampling results for both in-stream receiving water and outfall monitoring locations, while Table 2 presents weekly results with rolling 30-day geometric means for the in-stream receiving water monitoring locations. Sample collection dates are marked with a diamond (◆) symbol. Daily geometric means are calculated using the past 30 days of the respective sampling data and include samples collected during both wet weather and dry weather (Table 2). Non-sampling-day bacteria values are assigned the value of the most recent sampling event. To meet the prescribed dry weather geometric mean frequency, statistics are calculated for dry events at SCRR3-RW1 by assigning a concentration value of 0.01 colony-forming unit (CFU) (rather than 0.0 CFU) when the site was not flowing. A zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation. Note that flow occurred throughout the monitoring period and samples were collected at the receiving water monitoring locations during each weekly event.

Samples were collected by Rincon Consultants, Inc. at SCRE-R005 (Estuary), SCRR3-RW1 (Reach 3), MO-FIL, MO-SPA, MO-VEN, MO-SRG, and MO-SAT for bacteria analysis by Fruit Growers Laboratory, Inc. (FGL). This report was prepared by Rincon Consultants, Inc.

If you have any questions regarding the results or activities related to the lower SCR Bacteria TMDL monitoring, please contact me at (805) 645-1382.

Sincerely,

Ewelina Mutkowska  
Senior Stormwater Manager,  
Ventura County Public Works Agency

CC: Jun Zhu, Regional Water Quality Control Board  
Celine Gallon, Regional Water Quality Control Board  
Jeff Pratt, Ventura County Public Works Agency  
Glenn Shephard, Ventura County Public Works Agency Watershed Protection  
Arne Anselm, Ventura County Public Works Agency Watershed Protection  
Joe Yahner, City of Ventura  
Peter Shallenberger, City of Ventura  
Roxanne Hughes, City of Fillmore  
Kelsey Erisman, City of Fillmore  
Clete J. Saunier, City of Santa Paula  
Gerhardt Hubner, City of Santa Paula  
Jan Hauser, City of Oxnard  
Badaoui Mouderrres, City of Oxnard  
Heather D'Anna Nichols, City of Oxnard

**Table 1.**  
**Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain	Single Sample		Single Sample		Single Sample		Single Sample		
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235 MPN)		(10,000 MPN)		(400 MPN)		(104 MPN)	
<b>Santa Clara River Reach 3</b>												
SCRR3-RW1	8:20	11/3/2020	◆	Dry	=	56.5		n/a		n/a		
SCRR3-RW1	8:30	11/10/2020	◆	Dry	=	57.5		n/a		n/a		
SCRR3-RW1	10:20	11/17/2020	◆	Dry	=	58.5		n/a		n/a		
SCRR3-RW1	9:40	11/24/2020	◆	Dry	=	59.5		n/a		n/a		
SCRR3-RW1	12:45	12/1/2020	◆	Dry	=	60.5		n/a		n/a		
SCRR3-RW1	13:30	12/8/2020	◆	Dry	=	61.5		n/a		n/a		
SCRR3-RW1	9:00	12/15/2020	◆	Dry	=	62.5		n/a		n/a		
SCRR3-RW1	8:30	12/22/2020	◆	Dry	=	63.5		n/a		n/a		
SCRR3-RW1	8:30	12/29/2020	◆	Wet	=	64.5		n/a		n/a		
SCRR3-RW1	10:40	1/5/2021	◆	Dry	=	65.5		n/a		n/a		
SCRR3-RW1	8:55	1/12/2021	◆	Dry	=	66.5		n/a		n/a		
SCRR3-RW1	10:15	1/19/2021	◆	Dry	=	67.5		n/a		n/a		
SCRR3-RW1	9:55	1/26/2021	◆	Wet	=	68.5		n/a		n/a		
SCRR3-RW1	9:00	2/2/2021	◆	Dry	=	69.5		n/a		n/a		
SCRR3-RW1	10:40	2/9/2021	◆	Dry	=	70.5		n/a		n/a		
SCRR3-RW1	11:40	2/16/2021	◆	Dry	=	71.5		n/a		n/a		
SCRR3-RW1	9:20	2/23/2021	◆	Dry	=	72.5		n/a		n/a		
SCRR3-RW1	10:30	3/2/2021	◆	Dry	=	73.5		n/a		n/a		
SCRR3-RW1	12:30	3/9/2021	◆	Dry	=	74.5		n/a		n/a		
SCRR3-RW1	11:20	3/16/2021	◆	Wet	=	75.5		n/a		n/a		
SCRR3-RW1	10:10	3/23/2021	◆	Dry	=	76.5		n/a		n/a		
SCRR3-RW1	10:30	3/30/2021	◆	Dry	=	77.5		n/a		n/a		
SCRR3-RW1	10:50	4/6/2021	◆	Dry	=	78.5		n/a		n/a		
SCRR3-RW1	11:30	4/13/2021	◆	Dry	=	79.5		n/a		n/a		
SCRR3-RW1	10:55	4/20/2021	◆	Dry	=	80.5		n/a		n/a		
SCRR3-RW1	10:20	4/27/2021	◆	Dry	=	81.5		n/a		n/a		
<b>Santa Clara River Estuary</b>												
SCRE-R005	7:45	11/3/2020	◆	Dry		n/a	=	700.0	=	49.0	=	36.9
SCRE-R005	8:00	11/10/2020	◆	Dry		n/a	=	630.0	=	46.0	=	33.3
SCRE-R005	11:20	11/17/2020	◆	Dry		n/a	=	3,300.0	=	490.0	=	81.6
SCRE-R005	8:40	11/24/2020	◆	Dry		n/a	=	24,000.0	=	1,100.0	=	13.2
SCRE-R005	11:45	12/1/2020	◆	Dry		n/a	=	790.0	=	110.0	=	9.7
SCRE-R005	13:00	12/8/2020	◆	Dry		n/a	=	13,000.0	=	94.0	=	33.6
SCRE-R005	7:05	12/15/2020	◆	Dry		n/a	=	11,000.0	=	46.0	=	90.6
SCRE-R005	7:45	12/22/2020	◆	Dry		n/a	=	2,800.0	=	130.0	=	58.6
SCRE-R005	8:00	12/29/2020	◆	Wet		n/a	=	54,000.0	=	3,300.0	>	2,420.0
SCRE-R005	10:00	1/5/2021	◆	Dry		n/a	=	1,100.0	=	110.0	=	43.1
SCRE-R005	8:20	1/12/2021	◆	Dry		n/a	=	4,900.0	=	330.0	=	68.9
SCRE-R005	11:30	1/19/2021	◆	Dry		n/a	=	4,900.0	=	170.0	=	214.3
SCRE-R005	9:20	1/26/2021	◆	Dry		n/a	=	4,900.0	=	40.0	=	37.7
SCRE-R005	8:10	2/2/2021	◆	Dry		n/a	=	17,000.0	=	130.0	=	88.8

**Table 1.**  
**Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain	Single Sample		Single Sample		Single Sample		Single Sample	
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
				(235 MPN)		(10,000 MPN)		(400 MPN)		(104 MPN)	
SCRE-R005	10:05	2/9/2021	◆ Dry	n/a	=	1,100.0	=	14.0	=	20.9	
SCRE-R005	9:20	2/16/2021	◆ Dry	n/a	=	3,300.0	=	31.0	=	22.8	
SCRE-R005	8:30	2/23/2021	◆ Dry	n/a	=	230.0	=	23.0	=	8.1	
SCRE-R005	9:45	3/2/2021	◆ Dry	n/a	=	3,300.0	=	46.0	=	3.0	
SCRE-R005	10:50	3/9/2021	◆ Dry	n/a	=	92,000.0	=	110.0	=	4.1	
SCRE-R005	9:20	3/16/2021	◆ Wet	n/a	=	790.0	=	22.0	=	20.6	
SCRE-R005	9:30	3/23/2021	◆ Dry	n/a	=	26.0	=	7.8	=	2.0	
SCRE-R005	8:40	3/30/2021	◆ Dry	n/a	=	140.0	=	4.5	=	3.0	
SCRE-R005	10:00	4/6/2021	◆ Dry	n/a	=	63.0	<	1.8	=	1.0	
SCRE-R005	10:40	4/13/2021	◆ Dry	n/a	=	1,700.0	=	170.0	=	5.1	
SCRE-R005	9:10	4/20/2021	◆ Dry	n/a	=	4,300.0	=	2.0	=	3.0	
SCRE-R005	9:35	4/27/2021	◆ Dry	n/a	=	4,300.0	<	1.8	=	1.0	
<b>Fillmore Outfall</b>											
MO-FIL	9:50	11/17/2020	◆ Dry	=	1,203.3	=	7,900.0	=	1,700.0	>	2,420.0
MO-FIL	8:35	12/15/2020	◆ Dry	=	248.1	=	4,900.0	=	790.0	=	1,986.3
MO-FIL	9:45	1/19/2021	◆ Dry	=	1,732.9	=	4,900.0	=	1,300.0	>	2,420.0
MO-FIL	11:00	2/16/2021	◆ Dry	=	686.7	>	2,419.6	=	490.0	=	1,986.3
MO-FIL	11:40	3/16/2021	◆ Wet	>	2,419.6	=	92,000.0	=	7,900.0	>	2,420.0
MO-FIL	10:30	4/20/2021	◆ Dry	=	167.0	=	24,000.0	=	330.0	>	2,420.0
<b>Santa Paula Outfall</b>											
MO-SPA	-	11/17/2020	◆ Dry		n/s		n/s		n/s		n/s
MO-SPA	-	12/15/2020	◆ Dry		n/s		n/s		n/s		n/s
MO-SPA	-	1/19/2021	◆ Dry		n/s		n/s		n/s		n/s
MO-SPA	-	2/16/2021	◆ Dry		n/s		n/s		n/s		n/s
MO-SPA	10:50	3/16/2021	◆ Wet	=	727.0	=	54,000.0	=	790.0	>	2,420.0
MO-SPA	-	4/20/2021	◆ Dry		n/s		n/s		n/s		n/s
<b>Ventura Outfall</b>											
MO-VEN	-	11/17/2020	◆ Dry		n/s		n/s		n/s		n/s
MO-VEN	-	12/15/2020	◆ Dry		n/s		n/s		n/s		n/s
MO-VEN	-	1/19/2021	◆ Dry		n/s		n/s		n/s		n/s
MO-VEN	-	2/16/2021	◆ Dry		n/s		n/s		n/s		n/s
MO-VEN	-	3/16/2021	◆ Wet		n/s		n/s		n/s		n/s
MO-VEN	-	4/20/2021	◆ Dry		n/s		n/s		n/s		n/s
<b>Oxnard Outfall</b>											
MO-SRG	-	11/17/2020	◆ Dry		n/s		n/s		n/s		n/s
MO-SRG	-	12/15/2020	◆ Dry		n/s		n/s		n/s		n/s
MO-SRG	-	1/19/2021	◆ Dry		n/s		n/s		n/s		n/s
MO-SRG	-	2/16/2021	◆ Dry		n/s		n/s		n/s		n/s
MO-SRG	-	3/16/2021	◆ Wet		n/s		n/s		n/s		n/s
MO-SRG	-	4/20/2021	◆ Dry		n/s		n/s		n/s		n/s

**Table 1.  
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain	Single Sample	Single Sample	Single Sample	Single Sample
				E.coli (MPN/100mL)	Total Coliform (MPN/100mL)	Fecal Coliform (MPN/100mL)	Enterococcus (MPN/100mL)
				(235 MPN)	(10,000 MPN)	(400 MPN)	(104 MPN)
<b>Saticoy Outfall</b>							
MO-SAT	-	11/17/2020	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	-	12/15/2020	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	-	1/19/2021	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	-	2/16/2021	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	-	3/16/2021	◆ Wet	n/s	n/s	n/s	n/s
MO-SAT	-	4/20/2021	◆ Dry	n/s	n/s	n/s	n/s

Notes:

◆ Date of Sampling

Wet weather samples are those collected within 72 hours after a day with >0.1" rainfall

Rain gages H245 – Wilson Ranch and H066 – Ventura City Hall are referenced to determine wet and dry days for Reach 3 and the Estuary, respectively. Data can be found at <http://www.vcwatershed.net/fws/gmap.html>.

MPN: most probably number

TMDL: Total Maximum Daily Load

E.coli: Escherichia coli

n/s: not sampled due to dry conditions

n/a: not applicable to site

>: greater than

<: less than

=: equal to

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)
<b>Santa Clara River Reach 3</b>												
SCRR3-RW1	11/3/2020	◆ 8:20	Dry	=	56.5	64.02	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/4/2020	-	Dry	=	56.5	64.20	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/5/2020	-	Dry	=	56.5	64.83	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/6/2020	-	Dry	=	56.5	65.48	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/7/2020	-	Dry	=	56.5	66.13	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/8/2020	-	Dry	=	56.5	66.79	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/9/2020	-	Dry	=	56.5	67.45	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/10/2020	◆ 8:30	Dry	=	57.5	68.16	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/11/2020	-	Dry	=	57.5	68.88	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/12/2020	-	Dry	=	57.5	69.11	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/13/2020	-	Dry	=	57.5	69.34	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/14/2020	-	Dry	=	57.5	69.57	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/15/2020	-	Dry	=	57.5	69.81	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/16/2020	-	Dry	=	57.5	70.04	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/17/2020	◆ 10:20	Dry	=	58.5	70.32	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/18/2020	-	Dry	=	58.5	70.59	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/19/2020	-	Dry	=	58.5	70.04	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/20/2020	-	Dry	=	58.5	69.50	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/21/2020	-	Dry	=	58.5	68.95	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/22/2020	-	Dry	=	58.5	68.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/23/2020	-	Dry	=	58.5	67.88	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/24/2020	◆ 9:40	Dry	=	59.5	67.39	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/25/2020	-	Dry	=	59.5	66.90	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/26/2020	-	Dry	=	59.5	65.57	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/27/2020	-	Dry	=	59.5	64.26	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/28/2020	-	Dry	=	59.5	62.97	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/29/2020	-	Dry	=	59.5	61.71	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	11/30/2020	-	Dry	=	59.5	60.48	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/1/2020	◆ 12:45	Dry	=	60.5	59.31	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/2/2020	-	Dry	=	60.5	58.15	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/3/2020	-	Dry	=	60.5	58.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/4/2020	-	Dry	=	60.5	58.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/5/2020	-	Dry	=	60.5	58.55	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/6/2020	-	Dry	=	60.5	58.69	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/7/2020	-	Dry	=	60.5	58.82	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/8/2020	◆ 13:30	Dry	=	61.5	58.99	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/9/2020	-	Dry	=	61.5	59.15	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/10/2020	-	Dry	=	61.5	59.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/11/2020	-	Dry	=	61.5	59.42	n/a	n/a	n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	=	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)
SCRR3-RW1	12/12/2020		-	Dry	=	61.5	59.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/13/2020		-	Dry	=	61.5	59.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/14/2020		-	Dry	=	61.5	59.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/15/2020	◆	9:00	Dry	=	62.5	59.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/16/2020		-	Dry	=	62.5	60.15	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/17/2020		-	Dry	=	62.5	60.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/18/2020		-	Dry	=	62.5	60.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/19/2020		-	Dry	=	62.5	60.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/20/2020		-	Dry	=	62.5	60.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/21/2020		-	Dry	=	62.5	60.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/22/2020	◆	8:30	Dry	=	63.5	60.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/23/2020		-	Dry	=	63.5	61.15	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/24/2020		-	Dry	=	63.5	61.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/25/2020		-	Dry	=	63.5	61.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/26/2020		-	Dry	=	63.5	61.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/27/2020		-	Dry	=	63.5	61.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/28/2020		-	Dry	=	63.5	61.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/29/2020	◆	8:30	Wet	=	64.5	61.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/30/2020		-	Wet	=	64.5	62.15	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	12/31/2020		-	Wet	=	64.5	62.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/1/2021		-	Wet	=	64.5	62.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/2/2021		-	Wet	=	64.5	62.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/3/2021		-	Wet	=	64.5	62.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/4/2021		-	Wet	=	64.5	62.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/5/2021	◆	10:40	Dry	=	65.5	62.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/6/2021		-	Dry	=	65.5	63.15	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/7/2021		-	Dry	=	65.5	63.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/8/2021		-	Dry	=	65.5	63.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/9/2021		-	Dry	=	65.5	63.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/10/2021		-	Dry	=	65.5	63.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/11/2021		-	Dry	=	65.5	63.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/12/2021	◆	8:55	Dry	=	66.5	63.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/13/2021		-	Dry	=	66.5	64.15	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/14/2021		-	Dry	=	66.5	64.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/15/2021		-	Dry	=	66.5	64.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/16/2021		-	Dry	=	66.5	64.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/17/2021		-	Dry	=	66.5	64.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/18/2021		-	Dry	=	66.5	64.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/19/2021	◆	10:15	Dry	=	67.5	64.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/20/2021		-	Dry	=	67.5	65.15	n/a	n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	=	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)
SCRR3-RW1	1/21/2021		-	Dry	=	67.5	65.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/22/2021		-	Dry	=	67.5	65.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/23/2021		-	Dry	=	67.5	65.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/24/2021		-	Dry	=	67.5	65.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/25/2021		-	Dry	=	67.5	65.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/26/2021	◆ 9:55		Wet	=	68.5	65.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/27/2021		-	Wet	=	68.5	66.15	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/28/2021		-	Wet	=	68.5	66.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/29/2021		-	Wet	=	68.5	66.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/30/2021		-	Wet	=	68.5	66.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	1/31/2021		-	Wet	=	68.5	66.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/1/2021		-	Wet	=	68.5	66.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/2/2021	◆ 9:00		Dry	=	69.5	66.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/3/2021		-	Dry	=	69.5	67.16	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/4/2021		-	Dry	=	69.5	67.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/5/2021		-	Dry	=	69.5	67.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/6/2021		-	Dry	=	69.5	67.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/7/2021		-	Dry	=	69.5	67.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/8/2021		-	Dry	=	69.5	67.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/9/2021	◆ 10:40		Dry	=	70.5	67.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/10/2021		-	Dry	=	70.5	68.16	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/11/2021		-	Dry	=	70.5	68.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/12/2021		-	Dry	=	70.5	68.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/13/2021		-	Dry	=	70.5	68.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/14/2021		-	Dry	=	70.5	68.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/15/2021		-	Dry	=	70.5	68.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/16/2021	◆ 11:40		Dry	=	71.5	68.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/17/2021		-	Dry	=	71.5	69.16	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/18/2021		-	Dry	=	71.5	69.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/19/2021		-	Dry	=	71.5	69.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/20/2021		-	Dry	=	71.5	69.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/21/2021		-	Dry	=	71.5	69.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/22/2021		-	Dry	=	71.5	69.82	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/23/2021	◆ 9:20		Dry	=	72.5	69.99	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/24/2021		-	Dry	=	72.5	70.16	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/25/2021		-	Dry	=	72.5	70.29	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/26/2021		-	Dry	=	72.5	70.42	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/27/2021		-	Dry	=	72.5	70.55	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/28/2021		-	Dry	=	72.5	70.69	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/1/2021		-	Dry	=	72.5	70.82	n/a	n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
					(235 MPN)	(126 MPN)	(10,000 MPN)	(1,000 MPN)	(400 MPN)	(200 MPN)	(104 MPN)	(35 MPN)
SCRR3-RW1	3/2/2021	◆ 10:30	Dry	=	73.5	70.99	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/3/2021	-	Dry	=	73.5	71.16	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/4/2021	-	Dry	=	73.5	71.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/5/2021	-	Dry	=	73.5	71.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/6/2021	-	Dry	=	73.5	71.56	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/7/2021	-	Dry	=	73.5	71.69	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/8/2021	-	Dry	=	73.5	71.82	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/9/2021	◆ 12:30	Dry	=	74.5	71.99	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/10/2021	-	Dry	=	74.5	72.16	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/11/2021	-	Dry	=	74.5	72.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/12/2021	-	Dry	=	74.5	72.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/13/2021	-	Dry	=	74.5	72.56	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/14/2021	-	Dry	=	74.5	72.69	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/15/2021	-	Dry	=	74.5	72.82	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/16/2021	◆ 11:20	Wet	=	75.5	72.99	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/17/2021	-	Wet	=	75.5	73.16	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/18/2021	-	Wet	=	75.5	73.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/19/2021	-	Wet	=	75.5	73.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/20/2021	-	Wet	=	75.5	73.56	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/21/2021	-	Wet	=	75.5	73.69	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/22/2021	-	Wet	=	75.5	73.82	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/23/2021	◆ 10:10	Dry	=	76.5	73.99	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/24/2021	-	Dry	=	76.5	74.16	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/25/2021	-	Dry	=	76.5	74.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/26/2021	-	Dry	=	76.5	74.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/27/2021	-	Dry	=	76.5	74.56	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/28/2021	-	Dry	=	76.5	74.69	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/29/2021	-	Dry	=	76.5	74.82	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/30/2021	◆ 10:30	Dry	=	77.5	74.99	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/31/2021	-	Dry	=	77.5	75.16	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/1/2021	-	Dry	=	77.5	75.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/2/2021	-	Dry	=	77.5	75.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/3/2021	-	Dry	=	77.5	75.56	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/4/2021	-	Dry	=	77.5	75.69	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/5/2021	-	Dry	=	77.5	75.82	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/6/2021	◆ 10:50	Dry	=	78.5	75.99	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/7/2021	-	Dry	=	78.5	76.16	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/8/2021	-	Dry	=	78.5	76.29	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/9/2021	-	Dry	=	78.5	76.42	n/a	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	4/10/2021	-	Dry	=	78.5	76.56	n/a	n/a	n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
					(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRR3-RW1	4/11/2021		-	Dry	=	78.5	76.69	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/12/2021		-	Dry	=	78.5	76.82	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/13/2021	◆	11:30	Dry	=	79.5	76.99	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/14/2021		-	Dry	=	79.5	77.16	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/15/2021		-	Dry	=	79.5	77.29	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/16/2021		-	Dry	=	79.5	77.42	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/17/2021		-	Dry	=	79.5	77.56	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/18/2021		-	Dry	=	79.5	77.69	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/19/2021		-	Dry	=	79.5	77.82	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/20/2021	◆	10:55	Dry	=	80.5	77.99	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/21/2021		-	Dry	=	80.5	78.16	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/22/2021		-	Dry	=	80.5	78.29	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/23/2021		-	Dry	=	80.5	78.42	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/24/2021		-	Dry	=	80.5	78.56	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/25/2021		-	Dry	=	80.5	78.69	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/26/2021		-	Dry	=	80.5	78.82	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/27/2021	◆	10:20	Dry	=	81.5	78.99	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/28/2021		-	Dry	=	81.5	79.16	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/29/2021		-	Dry	=	81.5	79.29	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	4/30/2021		-	Dry	=	81.5	79.42	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	5/1/2021		-	Dry	=	81.5	79.56	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	5/2/2021		-	Dry	=	81.5	79.69	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	5/3/2021		-	Dry	=	81.5	79.82	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
Santa Clara River Estuary																
SCRE-R005	11/3/2020	◆	7:45	Dry	=	n/a	n/a	=	700.0	1,906.1	=	49.0	60.1	=	36.9	20.6
SCRE-R005	11/4/2020		-	Dry	=	n/a	n/a	=	700.0	1,738.9	=	49.0	61.0	=	36.9	21.1
SCRE-R005	11/5/2020		-	Dry	=	n/a	n/a	=	700.0	1,610.4	=	49.0	60.3	=	36.9	21.0
SCRE-R005	11/6/2020		-	Dry	=	n/a	n/a	=	700.0	1,491.5	=	49.0	59.5	=	36.9	20.9
SCRE-R005	11/7/2020		-	Dry	=	n/a	n/a	=	700.0	1,381.3	=	49.0	58.8	=	36.9	20.9
SCRE-R005	11/8/2020		-	Dry	=	n/a	n/a	=	700.0	1,279.2	=	49.0	58.1	=	36.9	20.8
SCRE-R005	11/9/2020		-	Dry	=	n/a	n/a	=	700.0	1,184.7	=	49.0	57.5	=	36.9	20.7
SCRE-R005	11/10/2020	◆	8:00	Dry	=	n/a	n/a	=	630.0	1,093.3	=	46.0	56.7	=	33.3	20.6
SCRE-R005	11/11/2020		-	Dry	=	n/a	n/a	=	630.0	1,009.0	=	46.0	55.9	=	33.3	20.4
SCRE-R005	11/12/2020		-	Dry	=	n/a	n/a	=	630.0	967.8	=	46.0	56.5	=	33.3	20.3
SCRE-R005	11/13/2020		-	Dry	=	n/a	n/a	=	630.0	928.3	=	46.0	57.1	=	33.3	20.1
SCRE-R005	11/14/2020		-	Dry	=	n/a	n/a	=	630.0	890.4	=	46.0	57.8	=	33.3	20.0
SCRE-R005	11/15/2020		-	Dry	=	n/a	n/a	=	630.0	854.0	=	46.0	58.4	=	33.3	19.9
SCRE-R005	11/16/2020		-	Dry	=	n/a	n/a	=	630.0	819.2	=	46.0	59.1	=	33.3	19.7
SCRE-R005	11/17/2020	◆	11:20	Dry	=	n/a	n/a	=	3,300.0	830.3	=	490.0	64.6	=	81.6	20.2
SCRE-R005	11/18/2020		-	Dry	=	n/a	n/a	=	3,300.0	841.6	=	490.0	70.7	=	81.6	20.7

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRE-R005	11/19/2020		-	Dry	n/a	n/a	=	3,300.0	853.1	=	490.0	76.3	=	81.6	22.2
SCRE-R005	11/20/2020		-	Dry	n/a	n/a	=	3,300.0	864.7	=	490.0	82.4	=	81.6	23.8
SCRE-R005	11/21/2020		-	Dry	n/a	n/a	=	3,300.0	876.4	=	490.0	89.0	=	81.6	25.5
SCRE-R005	11/22/2020		-	Dry	n/a	n/a	=	3,300.0	888.4	=	490.0	96.1	=	81.6	27.3
SCRE-R005	11/23/2020		-	Dry	n/a	n/a	=	3,300.0	900.5	=	490.0	103.8	=	81.6	29.3
SCRE-R005	11/24/2020	◆ 8:40	-	Dry	n/a	n/a	=	24,000.0	975.1	=	1,100.0	115.1	=	13.2	29.6
SCRE-R005	11/25/2020		-	Dry	n/a	n/a	=	24,000.0	1,056.0	=	1,100.0	127.7	=	13.2	29.9
SCRE-R005	11/26/2020		-	Dry	n/a	n/a	=	24,000.0	1,215.8	=	1,100.0	137.1	=	13.2	30.1
SCRE-R005	11/27/2020		-	Dry	n/a	n/a	=	24,000.0	1,399.8	=	1,100.0	147.2	=	13.2	30.4
SCRE-R005	11/28/2020		-	Dry	n/a	n/a	=	24,000.0	1,611.6	=	1,100.0	158.1	=	13.2	30.7
SCRE-R005	11/29/2020		-	Dry	n/a	n/a	=	24,000.0	1,855.5	=	1,100.0	169.7	=	13.2	31.0
SCRE-R005	11/30/2020		-	Dry	n/a	n/a	=	24,000.0	2,136.4	=	1,100.0	182.2	=	13.2	31.3
SCRE-R005	12/1/2020	◆ 11:45	-	Dry	n/a	n/a	=	790.0	2,195.1	=	110.0	181.2	=	9.7	31.2
SCRE-R005	12/2/2020		-	Dry	n/a	n/a	=	790.0	2,255.5	=	110.0	180.2	=	9.7	31.2
SCRE-R005	12/3/2020		-	Dry	n/a	n/a	=	790.0	2,264.6	=	110.0	185.2	=	9.7	29.8
SCRE-R005	12/4/2020		-	Dry	n/a	n/a	=	790.0	2,273.8	=	110.0	190.2	=	9.7	28.5
SCRE-R005	12/5/2020		-	Dry	n/a	n/a	=	790.0	2,283.0	=	110.0	195.4	=	9.7	27.3
SCRE-R005	12/6/2020		-	Dry	n/a	n/a	=	790.0	2,292.2	=	110.0	200.7	=	9.7	26.1
SCRE-R005	12/7/2020		-	Dry	n/a	n/a	=	790.0	2,301.4	=	110.0	206.2	=	9.7	25.0
SCRE-R005	12/8/2020	◆ 13:00	-	Dry	n/a	n/a	=	13,000.0	2,536.9	=	94.0	210.8	=	33.6	24.9
SCRE-R005	12/9/2020		-	Dry	n/a	n/a	=	13,000.0	2,796.3	=	94.0	215.4	=	33.6	24.8
SCRE-R005	12/10/2020		-	Dry	n/a	n/a	=	13,000.0	3,093.2	=	94.0	220.6	=	33.6	24.8
SCRE-R005	12/11/2020		-	Dry	n/a	n/a	=	13,000.0	3,421.6	=	94.0	225.9	=	33.6	24.8
SCRE-R005	12/12/2020		-	Dry	n/a	n/a	=	13,000.0	3,784.9	=	94.0	231.3	=	33.6	24.8
SCRE-R005	12/13/2020		-	Dry	n/a	n/a	=	13,000.0	4,186.7	=	94.0	236.9	=	33.6	24.8
SCRE-R005	12/14/2020		-	Dry	n/a	n/a	=	13,000.0	4,631.2	=	94.0	242.6	=	33.6	24.9
SCRE-R005	12/15/2020	◆ 7:05	-	Dry	n/a	n/a	=	11,000.0	5,094.4	=	46.0	242.6	=	90.6	25.7
SCRE-R005	12/16/2020		-	Dry	n/a	n/a	=	11,000.0	5,604.0	=	46.0	242.6	=	90.6	26.6
SCRE-R005	12/17/2020		-	Dry	n/a	n/a	=	11,000.0	5,833.4	=	46.0	224.2	=	90.6	26.7
SCRE-R005	12/18/2020		-	Dry	n/a	n/a	=	11,000.0	6,072.3	=	46.0	207.2	=	90.6	26.8
SCRE-R005	12/19/2020		-	Dry	n/a	n/a	=	11,000.0	6,321.0	=	46.0	191.5	=	90.6	26.8
SCRE-R005	12/20/2020		-	Dry	n/a	n/a	=	11,000.0	6,579.8	=	46.0	177.0	=	90.6	26.9
SCRE-R005	12/21/2020		-	Dry	n/a	n/a	=	11,000.0	6,849.2	=	46.0	163.6	=	90.6	27.0
SCRE-R005	12/22/2020	◆ 7:45	-	Dry	n/a	n/a	=	2,800.0	6,811.8	=	130.0	156.5	=	58.6	26.7
SCRE-R005	12/23/2020		-	Dry	n/a	n/a	=	2,800.0	6,774.6	=	130.0	149.7	=	58.6	26.4
SCRE-R005	12/24/2020		-	Dry	n/a	n/a	=	2,800.0	6,306.4	=	130.0	139.4	=	58.6	27.8
SCRE-R005	12/25/2020		-	Dry	n/a	n/a	=	2,800.0	5,870.6	=	130.0	129.9	=	58.6	29.2
SCRE-R005	12/26/2020		-	Dry	n/a	n/a	=	2,800.0	5,464.9	=	130.0	120.9	=	58.6	30.7
SCRE-R005	12/27/2020		-	Dry	n/a	n/a	=	2,800.0	5,087.2	=	130.0	112.6	=	58.6	32.3
SCRE-R005	12/28/2020		-	Dry	n/a	n/a	=	2,800.0	4,735.6	=	130.0	104.9	=	58.6	33.9

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)
SCRE-R005	12/29/2020	◆ 8:00	Wet	n/a	n/a	=	54,000.0	4,865.4	=	3,300.0	108.8	>	2,420.0	40.3
SCRE-R005	12/30/2020	-	Wet	n/a	n/a	=	54,000.0	4,998.7	=	3,300.0	112.9	>	2,420.0	48.0
SCRE-R005	12/31/2020	-	Wet	n/a	n/a	=	54,000.0	5,754.6	=	3,300.0	126.4	>	2,420.0	57.7
SCRE-R005	1/1/2021	-	Wet	n/a	n/a	=	54,000.0	6,624.8	=	3,300.0	141.6	>	2,420.0	69.3
SCRE-R005	1/2/2021	-	Wet	n/a	n/a	=	54,000.0	7,626.6	=	3,300.0	158.6	>	2,420.0	83.3
SCRE-R005	1/3/2021	-	Wet	n/a	n/a	=	54,000.0	8,779.9	=	3,300.0	177.6	>	2,420.0	100.2
SCRE-R005	1/4/2021	-	Wet	n/a	n/a	=	54,000.0	10,107.6	=	3,300.0	198.9	>	2,420.0	120.4
SCRE-R005	1/5/2021	◆ 10:00	Dry	n/a	n/a	=	1,100.0	10,219.8	=	110.0	198.9	=	43.1	126.5
SCRE-R005	1/6/2021	-	Dry	n/a	n/a	=	1,100.0	10,333.2	=	110.0	198.9	=	43.1	133.0
SCRE-R005	1/7/2021	-	Dry	n/a	n/a	=	1,100.0	9,516.6	=	110.0	200.0	=	43.1	134.1
SCRE-R005	1/8/2021	-	Dry	n/a	n/a	=	1,100.0	8,764.6	=	110.0	201.0	=	43.1	135.2
SCRE-R005	1/9/2021	-	Dry	n/a	n/a	=	1,100.0	8,071.9	=	110.0	202.1	=	43.1	136.3
SCRE-R005	1/10/2021	-	Dry	n/a	n/a	=	1,100.0	7,434.1	=	110.0	203.1	=	43.1	137.5
SCRE-R005	1/11/2021	-	Dry	n/a	n/a	=	1,100.0	6,846.6	=	110.0	204.2	=	43.1	138.6
SCRE-R005	1/12/2021	◆ 8:20	Dry	n/a	n/a	=	4,900.0	6,627.5	=	330.0	212.9	=	68.9	142.0
SCRE-R005	1/13/2021	-	Dry	n/a	n/a	=	4,900.0	6,415.4	=	330.0	222.0	=	68.9	145.4
SCRE-R005	1/14/2021	-	Dry	n/a	n/a	=	4,900.0	6,244.8	=	330.0	237.1	=	68.9	144.1
SCRE-R005	1/15/2021	-	Dry	n/a	n/a	=	4,900.0	6,078.7	=	330.0	253.2	=	68.9	142.8
SCRE-R005	1/16/2021	-	Dry	n/a	n/a	=	4,900.0	5,917.1	=	330.0	270.4	=	68.9	141.5
SCRE-R005	1/17/2021	-	Dry	n/a	n/a	=	4,900.0	5,759.7	=	330.0	288.8	=	68.9	140.2
SCRE-R005	1/18/2021	-	Dry	n/a	n/a	=	4,900.0	5,606.5	=	330.0	308.4	=	68.9	138.9
SCRE-R005	1/19/2021	◆ 11:30	Dry	n/a	n/a	=	4,900.0	5,457.4	=	170.0	322.1	=	214.3	143.0
SCRE-R005	1/20/2021	-	Dry	n/a	n/a	=	4,900.0	5,312.3	=	170.0	336.4	=	214.3	147.2
SCRE-R005	1/21/2021	-	Dry	n/a	n/a	=	4,900.0	5,412.3	=	170.0	339.5	=	214.3	153.7
SCRE-R005	1/22/2021	-	Dry	n/a	n/a	=	4,900.0	5,514.2	=	170.0	342.5	=	214.3	160.4
SCRE-R005	1/23/2021	-	Dry	n/a	n/a	=	4,900.0	5,618.0	=	170.0	345.6	=	214.3	167.5
SCRE-R005	1/24/2021	-	Dry	n/a	n/a	=	4,900.0	5,723.8	=	170.0	348.7	=	214.3	174.9
SCRE-R005	1/25/2021	-	Dry	n/a	n/a	=	4,900.0	5,831.6	=	170.0	351.8	=	214.3	182.6
SCRE-R005	1/26/2021	◆ 9:20	Dry	n/a	n/a	=	4,900.0	5,941.4	=	40.0	338.3	=	37.7	180.0
SCRE-R005	1/27/2021	-	Dry	n/a	n/a	=	4,900.0	6,053.2	=	40.0	325.2	=	37.7	177.4
SCRE-R005	1/28/2021	-	Dry	n/a	n/a	=	4,900.0	5,587.9	=	40.0	280.8	=	37.7	154.4
SCRE-R005	1/29/2021	-	Dry	n/a	n/a	=	4,900.0	5,158.3	=	40.0	242.4	=	37.7	134.4
SCRE-R005	1/30/2021	-	Dry	n/a	n/a	=	4,900.0	4,761.8	=	40.0	209.2	=	37.7	117.0
SCRE-R005	1/31/2021	-	Dry	n/a	n/a	=	4,900.0	4,395.7	=	40.0	180.6	=	37.7	101.8
SCRE-R005	2/1/2021	-	Dry	n/a	n/a	=	4,900.0	4,057.8	=	40.0	155.9	=	37.7	88.6
SCRE-R005	2/2/2021	◆ 8:10	Dry	n/a	n/a	=	17,000.0	3,904.4	=	130.0	140.0	=	88.8	79.4
SCRE-R005	2/3/2021	-	Dry	n/a	n/a	=	17,000.0	3,756.9	=	130.0	125.6	=	88.8	71.1
SCRE-R005	2/4/2021	-	Dry	n/a	n/a	=	17,000.0	4,115.9	=	130.0	126.4	=	88.8	72.8
SCRE-R005	2/5/2021	-	Dry	n/a	n/a	=	17,000.0	4,509.2	=	130.0	127.1	=	88.8	74.6
SCRE-R005	2/6/2021	-	Dry	n/a	n/a	=	17,000.0	4,940.0	=	130.0	127.8	=	88.8	76.4

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRE-R005	2/7/2021		-	Dry	n/a	n/a	=	17,000.0	5,412.1	=	130.0	128.5	=	88.8	78.3
SCRE-R005	2/8/2021		-	Dry	n/a	n/a	=	17,000.0	5,929.3	=	130.0	129.2	=	88.8	80.2
SCRE-R005	2/9/2021	◆	10:05	Dry	n/a	n/a	=	1,100.0	5,929.3	=	14.0	120.6	=	20.9	78.3
SCRE-R005	2/10/2021		-	Dry	n/a	n/a	=	1,100.0	5,929.3	=	14.0	112.6	=	20.9	76.4
SCRE-R005	2/11/2021		-	Dry	n/a	n/a	=	1,100.0	5,641.2	=	14.0	101.3	=	20.9	73.5
SCRE-R005	2/12/2021		-	Dry	n/a	n/a	=	1,100.0	5,367.2	=	14.0	91.2	=	20.9	70.6
SCRE-R005	2/13/2021		-	Dry	n/a	n/a	=	1,100.0	5,106.5	=	14.0	82.1	=	20.9	67.8
SCRE-R005	2/14/2021		-	Dry	n/a	n/a	=	1,100.0	4,858.4	=	14.0	73.9	=	20.9	65.2
SCRE-R005	2/15/2021		-	Dry	n/a	n/a	=	1,100.0	4,622.4	=	14.0	66.5	=	20.9	62.7
SCRE-R005	2/16/2021	◆	9:20	Dry	n/a	n/a	=	3,300.0	4,561.9	=	31.0	61.5	=	22.8	60.4
SCRE-R005	2/17/2021		-	Dry	n/a	n/a	=	3,300.0	4,502.2	=	31.0	56.8	=	22.8	58.2
SCRE-R005	2/18/2021		-	Dry	n/a	n/a	=	3,300.0	4,443.2	=	31.0	53.7	=	22.8	54.0
SCRE-R005	2/19/2021		-	Dry	n/a	n/a	=	3,300.0	4,385.1	=	31.0	50.7	=	22.8	50.1
SCRE-R005	2/20/2021		-	Dry	n/a	n/a	=	3,300.0	4,327.7	=	31.0	47.9	=	22.8	46.5
SCRE-R005	2/21/2021		-	Dry	n/a	n/a	=	3,300.0	4,271.0	=	31.0	45.3	=	22.8	43.2
SCRE-R005	2/22/2021		-	Dry	n/a	n/a	=	3,300.0	4,215.1	=	31.0	42.8	=	22.8	40.1
SCRE-R005	2/23/2021	◆	8:30	Dry	n/a	n/a	=	230.0	3,806.5	=	23.0	40.0	=	8.1	35.9
SCRE-R005	2/24/2021		-	Dry	n/a	n/a	=	230.0	3,437.5	=	23.0	37.4	=	8.1	32.2
SCRE-R005	2/25/2021		-	Dry	n/a	n/a	=	230.0	3,104.3	=	23.0	36.7	=	8.1	30.6
SCRE-R005	2/26/2021		-	Dry	n/a	n/a	=	230.0	2,803.4	=	23.0	36.1	=	8.1	29.1
SCRE-R005	2/27/2021		-	Dry	n/a	n/a	=	230.0	2,531.6	=	23.0	35.4	=	8.1	27.6
SCRE-R005	2/28/2021		-	Dry	n/a	n/a	=	230.0	2,286.2	=	23.0	34.8	=	8.1	26.2
SCRE-R005	3/1/2021		-	Dry	n/a	n/a	=	230.0	2,064.6	=	23.0	34.1	=	8.1	24.9
SCRE-R005	3/2/2021	◆	9:45	Dry	n/a	n/a	=	3,300.0	2,037.6	=	46.0	34.3	=	3.0	22.9
SCRE-R005	3/3/2021		-	Dry	n/a	n/a	=	3,300.0	2,010.9	=	46.0	34.5	=	3.0	21.1
SCRE-R005	3/4/2021		-	Dry	n/a	n/a	=	3,300.0	1,904.0	=	46.0	33.3	=	3.0	18.8
SCRE-R005	3/5/2021		-	Dry	n/a	n/a	=	3,300.0	1,802.7	=	46.0	32.1	=	3.0	16.8
SCRE-R005	3/6/2021		-	Dry	n/a	n/a	=	3,300.0	1,706.8	=	46.0	31.1	=	3.0	15.0
SCRE-R005	3/7/2021		-	Dry	n/a	n/a	=	3,300.0	1,616.1	=	46.0	30.0	=	3.0	13.4
SCRE-R005	3/8/2021		-	Dry	n/a	n/a	=	3,300.0	1,530.1	=	46.0	29.0	=	3.0	12.0
SCRE-R005	3/9/2021	◆	10:50	Dry	n/a	n/a	=	92,000.0	1,618.7	=	110.0	28.8	=	4.1	10.8
SCRE-R005	3/10/2021		-	Dry	n/a	n/a	=	92,000.0	1,712.5	=	110.0	28.7	=	4.1	9.8
SCRE-R005	3/11/2021		-	Dry	n/a	n/a	=	92,000.0	1,984.7	=	110.0	30.7	=	4.1	9.2
SCRE-R005	3/12/2021		-	Dry	n/a	n/a	=	92,000.0	2,300.3	=	110.0	32.9	=	4.1	8.7
SCRE-R005	3/13/2021		-	Dry	n/a	n/a	=	92,000.0	2,666.0	=	110.0	35.2	=	4.1	8.3
SCRE-R005	3/14/2021		-	Dry	n/a	n/a	=	92,000.0	3,089.9	=	110.0	37.7	=	4.1	7.8
SCRE-R005	3/15/2021		-	Dry	n/a	n/a	=	92,000.0	3,581.1	=	110.0	40.4	=	4.1	7.4
SCRE-R005	3/16/2021	◆	9:20	Wet	n/a	n/a	=	790.0	3,541.8	=	22.0	41.0	=	20.6	7.4
SCRE-R005	3/17/2021		-	Wet	n/a	n/a	=	790.0	3,503.0	=	22.0	41.6	=	20.6	7.4
SCRE-R005	3/18/2021		-	Wet	n/a	n/a	=	790.0	3,339.9	=	22.0	41.2	=	20.6	7.4

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)	
SCRE-R005	3/19/2021		-	Wet	n/a	n/a	=	790.0	3,184.5	=	22.0	40.7	=	20.6	7.4
SCRE-R005	3/20/2021		-	Wet	n/a	n/a	=	790.0	3,036.3	=	22.0	40.2	=	20.6	7.4
SCRE-R005	3/21/2021		-	Wet	n/a	n/a	=	790.0	2,895.0	=	22.0	39.8	=	20.6	7.3
SCRE-R005	3/22/2021		-	Wet	n/a	n/a	=	790.0	2,760.3	=	22.0	39.3	=	20.6	7.3
SCRE-R005	3/23/2021	◆	9:30	Dry	n/a	n/a	=	26.0	2,348.7	=	7.8	37.6	=	2.0	6.7
SCRE-R005	3/24/2021		-	Dry	n/a	n/a	=	26.0	1,998.6	=	7.8	35.9	=	2.0	6.2
SCRE-R005	3/25/2021		-	Dry	n/a	n/a	=	26.0	1,858.5	=	7.8	34.6	=	2.0	5.9
SCRE-R005	3/26/2021		-	Dry	n/a	n/a	=	26.0	1,728.2	=	7.8	33.4	=	2.0	5.7
SCRE-R005	3/27/2021		-	Dry	n/a	n/a	=	26.0	1,607.1	=	7.8	32.2	=	2.0	5.4
SCRE-R005	3/28/2021		-	Dry	n/a	n/a	=	26.0	1,494.5	=	7.8	31.1	=	2.0	5.2
SCRE-R005	3/29/2021		-	Dry	n/a	n/a	=	26.0	1,389.7	=	7.8	30.0	=	2.0	4.9
SCRE-R005	3/30/2021	◆	8:40	Dry	n/a	n/a	=	140.0	1,366.9	=	4.5	28.4	=	3.0	4.8
SCRE-R005	3/31/2021		-	Dry	n/a	n/a	=	140.0	1,344.5	=	4.5	26.9	=	3.0	4.6
SCRE-R005	4/1/2021		-	Dry	n/a	n/a	=	140.0	1,210.1	=	4.5	24.9	=	3.0	4.6
SCRE-R005	4/2/2021		-	Dry	n/a	n/a	=	140.0	1,089.1	=	4.5	23.0	=	3.0	4.6
SCRE-R005	4/3/2021		-	Dry	n/a	n/a	=	140.0	980.2	=	4.5	21.3	=	3.0	4.6
SCRE-R005	4/4/2021		-	Dry	n/a	n/a	=	140.0	882.2	=	4.5	19.7	=	3.0	4.6
SCRE-R005	4/5/2021		-	Dry	n/a	n/a	=	140.0	794.0	=	4.5	18.2	=	3.0	4.6
SCRE-R005	4/6/2021	◆	10:00	Dry	n/a	n/a	=	63.0	695.8	<	1.8	16.4	=	1.0	4.4
SCRE-R005	4/7/2021		-	Dry	n/a	n/a	=	63.0	609.8	<	1.8	14.7	=	1.0	4.3
SCRE-R005	4/8/2021		-	Dry	n/a	n/a	=	63.0	478.3	<	1.8	12.8	=	1.0	4.1
SCRE-R005	4/9/2021		-	Dry	n/a	n/a	=	63.0	375.2	<	1.8	11.2	=	1.0	3.9
SCRE-R005	4/10/2021		-	Dry	n/a	n/a	=	63.0	294.3	<	1.8	9.7	=	1.0	3.7
SCRE-R005	4/11/2021		-	Dry	n/a	n/a	=	63.0	230.8	<	1.8	8.5	=	1.0	3.5
SCRE-R005	4/12/2021		-	Dry	n/a	n/a	=	63.0	181.1	<	1.8	7.4	=	1.0	3.4
SCRE-R005	4/13/2021	◆	10:40	Dry	n/a	n/a	=	1,700.0	158.5	=	170.0	7.5	=	5.1	3.4
SCRE-R005	4/14/2021		-	Dry	n/a	n/a	=	1,700.0	138.8	=	170.0	7.6	=	5.1	3.4
SCRE-R005	4/15/2021		-	Dry	n/a	n/a	=	1,700.0	142.3	=	170.0	8.2	=	5.1	3.3
SCRE-R005	4/16/2021		-	Dry	n/a	n/a	=	1,700.0	146.0	=	170.0	8.7	=	5.1	3.1
SCRE-R005	4/17/2021		-	Dry	n/a	n/a	=	1,700.0	149.8	=	170.0	9.4	=	5.1	3.0
SCRE-R005	4/18/2021		-	Dry	n/a	n/a	=	1,700.0	153.7	=	170.0	10.0	=	5.1	2.8
SCRE-R005	4/19/2021		-	Dry	n/a	n/a	=	1,700.0	157.7	=	170.0	10.7	=	5.1	2.7
SCRE-R005	4/20/2021	◆	9:10	Dry	n/a	n/a	=	4,300.0	166.8	=	2.0	9.9	=	3.0	2.5
SCRE-R005	4/21/2021		-	Dry	n/a	n/a	=	4,300.0	176.5	=	2.0	9.1	=	3.0	2.4
SCRE-R005	4/22/2021		-	Dry	n/a	n/a	=	4,300.0	209.3	=	2.0	8.7	=	3.0	2.4
SCRE-R005	4/23/2021		-	Dry	n/a	n/a	=	4,300.0	248.1	=	2.0	8.3	=	3.0	2.5
SCRE-R005	4/24/2021		-	Dry	n/a	n/a	=	4,300.0	294.2	=	2.0	8.0	=	3.0	2.5
SCRE-R005	4/25/2021		-	Dry	n/a	n/a	=	4,300.0	348.8	=	2.0	7.6	=	3.0	2.5
SCRE-R005	4/26/2021		-	Dry	n/a	n/a	=	4,300.0	413.5	=	2.0	7.3	=	3.0	2.6
SCRE-R005	4/27/2021	◆	9:35	Dry	n/a	n/a	=	4,300.0	490.3	<	1.8	6.9	=	1.0	2.5

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	<	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235 MPN)	(126 MPN)		(10,000 MPN)	(1,000 MPN)		(400 MPN)	(200 MPN)		(104 MPN)	(35 MPN)
SCRE-R005	4/28/2021	-	Dry	n/a	n/a	=	4,300.0	581.3	<	1.8	6.6	=	1.0	2.4
SCRE-R005	4/29/2021	-	Dry	n/a	n/a	=	4,300.0	651.6	<	1.8	6.4	=	1.0	2.4
SCRE-R005	4/30/2021	-	Dry	n/a	n/a	=	4,300.0	730.4	<	1.8	6.2	=	1.0	2.3
SCRE-R005	5/1/2021	-	Dry	n/a	n/a	=	4,300.0	818.8	<	1.8	6.0	=	1.0	2.2
SCRE-R005	5/2/2021	-	Dry	n/a	n/a	=	4,300.0	917.8	<	1.8	5.8	=	1.0	2.1
SCRE-R005	5/3/2021	-	Dry	n/a	n/a	=	4,300.0	1,028.8	<	1.8	5.7	=	1.0	2.0

Notes:

◆ Date of Sampling

Wet weather samples are those collected within 72 hours after a day with >0.1" rainfall

Rain gages H245 – Wilson Ranch and H066 – Ventura City Hall are referenced to determine wet and dry days for Reach 3 and the Estuary, respectively. Data can be found at <http://www.vcwatershed.net/fws/gmap.html>.

To meet the prescribed dry weather geometric mean frequency, statistics are calculated for dry events at SCRR3-RW1 by assigning a concentration value of 0.01 colony-forming unit (CFU) (rather than 0.0 CFU) when the site was not flowing. A zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.

MPN: most probably number

TMDL: Total Maximum Daily Load

E.coli: Escherichia coli

n/a: not applicable to site



December 15, 2020

Dr. L.B. Nye, Chief of Regional Programs  
Regional Water Quality Control Board  
Los Angeles Region  
320 West 4th Street, Suite 200  
Los Angeles, CA 90013

Subject: 2020 ANNUAL MONITORING REPORT FOR SANTA CLARA RIVER BACTERIA TOTAL  
MAXIMUM DAILY LOAD

Dear Ms. Nye,

The Santa Clara River (SCR) Estuary and Reaches 3, 5, 6, and 7 Indicator Bacteria Total Maximum Daily Load (Bacteria TMDL) was adopted by the Los Angeles Regional Water Quality Control Board (Regional Water Board) on July 8, 2010 and came into effect on March 21, 2012. The Bacteria TMDL incorporates the reaches listed on the 303(d) list, Reach 3 which was added to the 303(d) list in the 2016 Integrated Report, and all tributaries to the impaired SCR reaches.

The County of Ventura and Cities of Fillmore, Oxnard, Santa Paula, and Ventura, are working collaboratively to implement Bacteria TMDL requirements for the lower SCR to address impairments to the SCR Estuary and Reach 3. The Bacteria TMDL required an in-stream compliance bacteria water quality Monitoring Plan, as well as an Implementation Plan (including an Outfall Monitoring Plan) to outline how the TMDL Responsible Agencies will achieve compliance with the Bacteria TMDL Waste Load Allocations and Load Allocations for the lower SCR. In accordance with the *Bacteria TMDL Final In-stream Compliance Monitoring Plan (CMP)*, in-stream monitoring for the Reach 3 (SCRR3-RW1) and SCR Estuary (SCRE-R005) has been conducted since October 11, 2016. The Regional Water Board accepted the *Implementation Plan for the Lower Santa Clara River Watershed (Implementation Plan)* in a letter dated December 26, 2017, and following an extension granted by Ms. Newman on May 25, 2018, the outfall monitoring has been conducted in accordance with the Implementation Plan's Outfall Monitoring Plan at five jurisdictional outfalls since September 18, 2018.<sup>1</sup>

This annual report presents monitoring results for sampling events completed between **November 1, 2019 and October 31, 2020**. The attached tables summarize the results of weekly monitoring required by the CMP and monthly monitoring required by the Outfall Monitoring Plan. Weekly sampling occurs on Tuesdays at in-stream receiving water monitoring locations, and monthly at the five jurisdictional outfall monitoring locations (in coordination with in-stream receiving water monitoring activities).

Table 1 displays the semi-annual sampling results for both in-stream receiving water and outfall monitoring locations, while Table 2 presents weekly results rolling 30-day geometric means for the in-stream receiving water monitoring locations. Sample collection dates are marked with a diamond (◆) symbol. Daily geometric means for wet weather and dry weather using the past 30 days of the respective sampling data (Table 2). Non-sampling-day bacteria values are assigned the value of the most recent sampling event. To meet the prescribed dry weather geometric mean frequency, statistics are calculated for dry events by assigning a concentration value of 0.01 colony-forming unit (CFU) (rather than 0.0 CFU) when the site was not flowing. A zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation. Note that flow occurred throughout the monitoring period and samples were collected at the receiving water monitoring locations during each weekly event.

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<sup>1</sup> One jurisdictional outfall was selected per agency in Fillmore, Santa Paula, Ventura, Oxnard, and County unincorporated Saticoy (MO-FIL, -SPA, -VEN, -SRG, and -SAT respectively)

Dr. L.B. Nye  
December 15, 2020  
Page 2 of 2

Samples were collected and analyzed by Ventura City's Wastewater Treatment Plant (WWTP) staff at SCRE-R005 (Estuary) until January 31, 2020, at which time Rincon Consultants began collecting samples for bacteria analysis by Fruit Growers Laboratory, Inc. (FGL). Throughout this monitoring period, remaining samples were collected by Rincon Consultants for monitoring locations SCRR3-RW1 (Reach 3), MO-FIL, MO-SPA, MO-VEN, MO-SRG, and MO-SAT. Bacteria analysis was conducted for these samples by Ventura City's WWTP Laboratory until January 31, 2020, and by FGL since February 1, 2020. This report was prepared by Rincon Consultants, Inc.

If you have any questions regarding the results or activities related to the lower SCR Bacteria TMDL monitoring, please contact me at (805) 645-1382.

Sincerely,

Ewelina Mutkowska Digitally signed by Ewelina Mutkowska  
Date: 2020.12.15 11:14:57 -08'00'

Ewelina Mutkowska  
Senior Stormwater Manager,  
Ventura County Public Works Agency

CC: Jun Zhu, Regional Water Quality Control Board  
Celine Gallon, Regional Water Quality Control Board  
Jeff Pratt, Ventura County Public Works Agency  
Glenn Shephard, Ventura County Public Works Agency Watershed Protection  
Arne Anselm, Ventura County Public Works Agency Watershed Protection  
Joe Yahner, City of Ventura  
Peter Shallenberger, City of Ventura  
Roxanne Hughes, City of Fillmore  
Clete J. Saunier, City of Santa Paula  
Jan Hauser, City of Oxnard  
Kiernan Brtalik, Rincon Consultants, Inc.

**Table 1.**  
**Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain			Single Sample	Single Sample	Single Sample	Single Sample
						E.coli (MPN/100mL)	Total Coliform (MPN/100mL)	Fecal Coliform (MPN/100mL)	Enterococcus (MPN/100mL)
						(235)	(10,000)	(400)	(104)
<b>Santa Clara River Reach 3</b>									
SCRR3-RW1	7:00	11/5/2019	◆	Dry	=	104.3	n/a	n/a	n/a
SCRR3-RW1	6:27	11/12/2019	◆	Dry	=	206.3	n/a	n/a	n/a
SCRR3-RW1	9:50	11/19/2019	◆	Dry	=	77.6	n/a	n/a	n/a
SCRR3-RW1	8:55	11/26/2019	◆	Dry	=	101.7	n/a	n/a	n/a
SCRR3-RW1	7:20	12/3/2019	◆	Wet	=	108.1	n/a	n/a	n/a
SCRR3-RW1	8:30	12/10/2019	◆	Wet	=	78.5	n/a	n/a	n/a
SCRR3-RW1	9:50	12/17/2019	◆	Dry	=	36.4	n/a	n/a	n/a
SCRR3-RW1	8:11	12/24/2019	◆	Wet	=	235.9	n/a	n/a	n/a
SCRR3-RW1	8:30	12/31/2019	◆	Dry	=	52.0	n/a	n/a	n/a
SCRR3-RW1	9:17	1/7/2020	◆	Dry	=	25.9	n/a	n/a	n/a
SCRR3-RW1	9:10	1/14/2020	◆	Dry	=	27.2	n/a	n/a	n/a
SCRR3-RW1	10:16	1/21/2020	◆	Dry	=	51.2	n/a	n/a	n/a
SCRR3-RW1	8:59	1/28/2020	◆	Dry	=	30.5	n/a	n/a	n/a
SCRR3-RW1	9:30	2/4/2020	◆	Dry	=	30.0	n/a	n/a	n/a
SCRR3-RW1	9:00	2/11/2020	◆	Dry	=	4.1	n/a	n/a	n/a
SCRR3-RW1	11:45	2/18/2020	◆	Dry	<	10.0	n/a	n/a	n/a
SCRR3-RW1	12:00	2/25/2020	◆	Dry	=	63.0	n/a	n/a	n/a
SCRR3-RW1	11:48	3/3/2020	◆	Dry	=	96.0	n/a	n/a	n/a
SCRR3-RW1	14:00	3/11/2020	◆	Wet	=	1,126.0	n/a	n/a	n/a
SCRR3-RW1	8:00	3/17/2020	◆	Wet	=	1,421.0	n/a	n/a	n/a
SCRR3-RW1	9:45	3/24/2020	◆	Wet	=	17.5	n/a	n/a	n/a
SCRR3-RW1	10:00	3/31/2020	◆	Dry	=	41.0	n/a	n/a	n/a
SCRR3-RW1	10:00	4/7/2020	◆	Wet	=	169.0	n/a	n/a	n/a
SCRR3-RW1	10:20	4/14/2020	◆	Dry	=	63.0	n/a	n/a	n/a
SCRR3-RW1	10:50	4/21/2020	◆	Dry	=	86.0	n/a	n/a	n/a
SCRR3-RW1	7:30	4/28/2020	◆	Dry	=	31.0	n/a	n/a	n/a
SCRR3-RW1	7:30	5/5/2020	◆	Dry	=	52.0	n/a	n/a	n/a
SCRR3-RW1	7:50	5/12/2020	◆	Dry	=	31.0	n/a	n/a	n/a
SCRR3-RW1	8:50	5/19/2020	◆	Wet	=	52.0	n/a	n/a	n/a
SCRR3-RW1	8:20	5/26/2020	◆	Dry	=	41.0	n/a	n/a	n/a
SCRR3-RW1	8:00	6/2/2020	◆	Dry	=	75.0	n/a	n/a	n/a
SCRR3-RW1	8:40	6/9/2020	◆	Dry	=	41.0	n/a	n/a	n/a
SCRR3-RW1	9:20	6/16/2020	◆	Dry	=	243.0	n/a	n/a	n/a
SCRR3-RW1	7:00	6/23/2020	◆	Dry	=	84.0	n/a	n/a	n/a
SCRR3-RW1	10:35	6/30/2020	◆	Dry	=	61.0	n/a	n/a	n/a
SCRR3-RW1	8:20	7/7/2020	◆	Dry	=	74.0	n/a	n/a	n/a
SCRR3-RW1	8:00	7/14/2020	◆	Dry	=	146.0	n/a	n/a	n/a
SCRR3-RW1	9:31	7/21/2020	◆	Dry	=	301.0	n/a	n/a	n/a
SCRR3-RW1	8:45	7/28/2020	◆	Dry	=	120.0	n/a	n/a	n/a
SCRR3-RW1	9:00	8/4/2020	◆	Dry	=	231.0	n/a	n/a	n/a

**Table 1.**  
**Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain		Single Sample		Single Sample		Single Sample			
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
					(235)		(10,000)		(400)	(104)		
SCRR3-RW1	8:25	8/11/2020	◆	Dry	=	243.0		n/a		n/a		
SCRR3-RW1	9:44	8/18/2020	◆	Dry	=	110.0		n/a		n/a		
SCRR3-RW1	8:43	8/25/2020	◆	Dry	=	301.0		n/a		n/a		
SCRR3-RW1	8:57	9/1/2020	◆	Dry	=	624.0		n/a		n/a		
SCRR3-RW1	10:45	9/8/2020	◆	Dry	=	41.0		n/a		n/a		
SCRR3-RW1	10:11	9/15/2020	◆	Dry	=	72.8		n/a		n/a		
SCRR3-RW1	8:10	9/22/2020	◆	Dry	=	31.0		n/a		n/a		
SCRR3-RW1	9:45	9/29/2020	◆	Dry	=	52.0		n/a		n/a		
SCRR3-RW1	8:27	10/6/2020	◆	Dry	=	42.0		n/a		n/a		
SCRR3-RW1	8:25	10/13/2020	◆	Dry	=	52.0		n/a		n/a		
SCRR3-RW1	11:00	10/20/2020	◆	Dry	=	74.0		n/a		n/a		
SCRR3-RW1	9:35	10/27/2020	◆	Dry	=	109.0		n/a		n/a		
<b>Santa Clara River Estuary</b>												
SCRE-R005	12:15	11/5/2019	◆	Dry		n/a	=	16,000.0	<	18.0	=	17.1
SCRE-R005	8:03	11/13/2019	◆	Dry		n/a	=	700.0	=	20.0	=	100.8
SCRE-R005	9:03	11/19/2019	◆	Dry		n/a	=	3,500.0	<	18.0	=	18.7
SCRE-R005	8:55	11/26/2019	◆	Dry		n/a	=	1,700.0	=	20.0	=	1,413.6
SCRE-R005	9:45	12/3/2019	◆	Wet		n/a	>	16,000.0	=	1,400.0	=	16.0
SCRE-R005	8:20	12/10/2019	◆	Wet		n/a	=	16,000.0	=	790.0	=	631.1
SCRE-R005	8:45	12/17/2019	◆	Dry		n/a	>	9,200.0	=	490.0	=	101.4
SCRE-R005	8:16	12/24/2019	◆	Wet		n/a	>	16,000.0	=	1,100.0	>	2,419.2
SCRE-R005	10:15	12/31/2019	◆	Dry		n/a	=	2,400.0	=	230.0	=	13.4
SCRE-R005	9:39	1/7/2020	◆	Dry		n/a	=	5,400.0	=	220.0	=	88.4
SCRE-R005	9:32	1/14/2020	◆	Dry		n/a	=	490.0	<	18.0	=	5.2
SCRE-R005	9:45	1/22/2020	◆	Dry		n/a	=	700.0	=	490.0	=	13.5
SCRE-R005	10:00	1/28/2020	◆	Dry		n/a	=	330.0	=	61.0	=	1.0
SCRE-R005	8:35	2/4/2020	◆	Dry		n/a	=	2,300.0	=	23.0	<	10.0
SCRE-R005	8:20	2/11/2020	◆	Dry		n/a	=	1,700.0	=	13.0	=	30.0
SCRE-R005	9:46	2/18/2020	◆	Dry		n/a	=	110.0	<	1.8	=	10.0
SCRE-R005	11:16	2/25/2020	◆	Dry		n/a	=	2,200.0	=	23.0	=	20.0
SCRE-R005	11:00	3/3/2020	◆	Dry		n/a	=	1,300.0	=	33.0	=	10.0
SCRE-R005	13:00	3/11/2020	◆	Wet		n/a	=	460.0	=	13.0	<	10.0
SCRE-R005	8:55	3/17/2020	◆	Wet		n/a	=	160,000.0	=	14,000.0	>	24,200.0
SCRE-R005	9:00	3/24/2020	◆	Wet		n/a	=	24,000.0	=	490.0	=	839.0
SCRE-R005	9:15	3/31/2020	◆	Dry		n/a	=	4,900.0	=	330.0	=	83.0
SCRE-R005	9:30	4/7/2020	◆	Wet		n/a	=	54,000.0	=	1,700.0	=	2,755.0
SCRE-R005	9:30	4/14/2020	◆	Dry		n/a	=	7,900.0	=	170.0	=	63.0
SCRE-R005	9:20	4/21/2020	◆	Dry		n/a	=	2,300.0	=	49.0	=	52.0
SCRE-R005	6:50	4/28/2020	◆	Dry		n/a	=	1,100.0	=	49.0	=	20.0
SCRE-R005	6:50	5/5/2020	◆	Dry		n/a	=	1,300.0	=	170.0	=	63.0
SCRE-R005	7:20	5/12/2020	◆	Dry		n/a	=	1,700.0	=	230.0	=	135.0

**Table 1.**  
**Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain	Single Sample		Single Sample		Single Sample		Single Sample		
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
				(235)		(10,000)		(400)		(104)		
SCRE-R005	10:40	5/19/2020	◆	Wet	=	n/a	=	13,000.0	=	700.0	=	384.0
SCRE-R005	7:45	5/26/2020	◆	Dry	=	n/a	=	4,900.0	=	490.0	=	323.0
SCRE-R005	7:30	6/2/2020	◆	Dry	=	n/a	=	1,700.0	=	490.0	=	1,500.0
SCRE-R005	8:00	6/9/2020	◆	Dry	=	n/a	=	17,000.0	=	490.0	=	1,076.0
SCRE-R005	7:50	6/16/2020	◆	Dry	=	n/a	=	54,000.0	=	790.0	=	1,515.0
SCRE-R005	6:30	6/23/2020	◆	Dry	=	n/a	=	17,000.0	=	2,300.0	=	420.0
SCRE-R005	10:00	6/30/2020	◆	Dry	=	n/a	=	3,300.0	=	33.0	=	10.0
SCRE-R005	7:45	7/7/2020	◆	Dry	=	n/a	=	54,000.0	=	11.0	=	20.0
SCRE-R005	7:30	7/14/2020	◆	Dry	=	n/a	=	7,900.0	=	110.0	=	31.0
SCRE-R005	7:50	7/21/2020	◆	Dry	=	n/a	=	24,000.0	=	23.0	=	10.0
SCRE-R005	8:00	7/28/2020	◆	Dry	=	n/a	=	7,900.0	=	23.0	=	20.0
SCRE-R005	8:20	8/4/2020	◆	Dry	=	n/a	=	2,200.0	=	79.0	=	20.0
SCRE-R005	7:49	8/11/2020	◆	Dry	=	n/a	=	3,500.0	=	49.0	=	30.0
SCRE-R005	7:45	8/18/2020	◆	Dry	=	n/a	=	24,000.0	=	26.0	=	63.0
SCRE-R005	7:59	8/25/2020	◆	Dry	=	n/a	=	17,000.0	=	9.3	=	41.0
SCRE-R005	8:24	9/1/2020	◆	Dry	=	n/a	=	7,900.0	=	4.5	=	20.0
SCRE-R005	10:00	9/8/2020	◆	Dry	=	n/a	=	35,000.0	=	460.0	=	98.0
SCRE-R005	11:00	9/15/2020	◆	Dry	=	n/a	=	24,000.0	=	1,100.0	=	648.8
SCRE-R005	7:30	9/22/2020	◆	Dry	=	n/a	=	9,400.0	=	1,300.0	=	789.0
SCRE-R005	9:10	9/29/2020	◆	Dry	=	n/a	=	11,000.0	=	31.0	=	20.0
SCRE-R005	7:56	10/6/2020	◆	Dry	=	n/a	=	7,000.0	=	70.0	=	41.0
SCRE-R005	7:45	10/13/2020	◆	Dry	=	n/a	=	2,200.0	=	33.0	=	41.0
SCRE-R005	13:00	10/20/2020	◆	Dry	=	n/a	=	2,200.0	=	49.0	=	10.0
SCRE-R005	9:05	10/27/2020	◆	Dry	=	n/a	=	350.0	=	130.0	=	10.0
<b>Fillmore Outfall</b>												
MO-FIL	9:15	11/19/2019	◆	Dry	=	1,986.3	>	16,000.0	=	5,400.0	>	2,419.2
MO-FIL	9:15	12/17/2019	◆	Dry	>	2,419.2	=	16,000.0	=	3,500.0	>	2,419.2
MO-FIL	9:20	1/21/2020	◆	Dry	=	2,419.2	>	16,000.0	=	5,400.0	>	1,203.3
MO-FIL	12:30	2/18/2020	◆	Dry	=	1,046.2	=	24,000.0	=	940.0	>	2,420.0
MO-FIL	12:20	3/17/2020	◆	Wet	>	2,419.2	=	92,000.0	=	4,900.0	>	2,420.0
MO-FIL	11:20	4/21/2020	◆	Dry	=	52.0	=	1,700.0	=	79.0	=	410.6
MO-FIL	8:20	5/19/2020	◆	Wet	=	344.8	=	160,000.0	=	3,300.0	>	2,420.0
MO-FIL	9:50	6/16/2020	◆	Dry	=	920.8	=	54,000.0	=	460.0	>	2,420.0
MO-FIL	10:04	7/21/2020	◆	Dry	=	161.6	=	7,900.0	=	330.0	=	1,732.9
MO-FIL	10:05	8/18/2020	◆	Dry	=	1,732.9	=	35,000.0	=	7,900.0	>	2,420.0
MO-FIL	10:49	9/15/2020	◆	Dry	=	1,203.3	=	13,000.0	=	1,700.0	>	2,420.0
MO-FIL	10:30	10/20/2020	◆	Dry	=	1,986.3	=	92,000.0	=	4,900.0	>	2,420.0
<b>Santa Paula Outfall</b>												
MO-SPA	10:04	11/19/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:58	12/17/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	10:27	1/21/2020	◆	Dry		n/s		n/s		n/s		n/s

**Table 1.**  
**Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain	Single Sample		Single Sample		Single Sample		Single Sample		
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)		
					(235)		(10,000)		(400)		(104)	
MO-SPA	11:58	2/18/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	11:00	3/17/2020	◆	Wet	>	2,419.6	>	160,000.0	=	17,000.0	>	2,420.0
MO-SPA	10:37	4/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:15	5/19/2020	◆	Wet	>	2,419.6	>	160,000.0	=	54,000.0	>	2,420.0
MO-SPA	9:10	6/16/2020	◆	Dry	>	2,419.6	=	24,000.0	=	3,300.0	>	2,420.0
MO-SPA	9:22	7/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:29	8/18/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	9:54	9/15/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SPA	11:08	10/20/2020	◆	Dry		n/s		n/s		n/s		n/s
<b>Ventura Outfall</b>												
MO-VEN	11:01	11/19/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	10:47	12/17/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	11:17	1/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	10:39	2/18/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	10:00	3/17/2020	◆	Wet	>	2,419.6	=	54,000.0	=	24,000.0	>	2,420.0
MO-VEN	9:57	4/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	10:00	5/19/2020	◆	Wet	=	52.2	=	3,300.0	=	1,300.0	=	1,046.2
MO-VEN	8:21	6/16/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	8:42	7/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	8:33	8/18/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	9:19	9/15/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-VEN	12:25	10/20/2020	◆	Dry	=	290.9	=	24,000.0	=	490.0	=	2,419.6
<b>Oxnard Outfall</b>												
MO-SRG	11:12	11/19/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SRG	10:59	12/17/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SRG	12:09	1/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SRG	10:17	2/18/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SRG	9:30	3/17/2020	◆	Wet	>	2,419.6	=	54,000.0	=	4,900.0	>	2,420.0
MO-SRG	9:43	4/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SRG	10:19	5/19/2020	◆	Wet		n/s		n/s		n/s		n/s
MO-SRG	8:07	6/16/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SRG	8:15	7/21/2020	◆	Dry	=	15.8	=	35,000.0	=	79.0	=	1,413.6
MO-SRG	9:31	8/18/2020	◆	Dry		n/s	=	35,000.0	=	3,300.0	>	2,420.0
MO-SRG	8:59	9/15/2020	◆	Dry	=	1,413.6	=	4,900.0	=	700.0	=	1,732.9
MO-SRG	12:39	10/20/2020	◆	Dry		n/s		n/s		n/s		n/s
<b>Saticoy Outfall</b>												
MO-SAT	10:40	11/19/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SAT	10:28	12/17/2019	◆	Dry		n/s		n/s		n/s		n/s
MO-SAT	10:54	1/21/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SAT	11:11	2/18/2020	◆	Dry		n/s		n/s		n/s		n/s
MO-SAT	10:27	3/17/2020	◆	Wet		n/s		n/s		n/s		n/s

**Table 1.  
Sampling Results for Receiving Water (Weekly) and Outfalls (Monthly)**

Location	Time	Date	Rain	Single Sample	Single Sample	Single Sample	Single Sample
				E.coli (MPN/100mL)	Total Coliform (MPN/100mL)	Fecal Coliform (MPN/100mL)	Enterococcus (MPN/100mL)
				(235)	(10,000)	(400)	(104)
MO-SAT	10:15	4/21/2020	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	9:38	5/19/2020	◆ Wet	n/s	n/s	n/s	n/s
MO-SAT	8:39	6/16/2020	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	9:01	7/21/2020	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	14:40	8/18/2020	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	9:35	9/15/2020	◆ Dry	n/s	n/s	n/s	n/s
MO-SAT	11:46	10/20/2020	◆ Dry	n/s	n/s	n/s	n/s

Notes:

◆ Date of Sampling

MPN/100mL: most probable number per 100 millileter

E.coli: Escherichia coli

n/s: not sampled due to dry conditions

n/a: not applicable to site

>: greater than

<: less than

=: equal to

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
					(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
<b>Santa Clara River Reach 3</b>															
SCRR3-RW1	11/5/2019	◆ 7:00	Dry	=	104.3	116.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/6/2019	-	Dry	=	104.3	104.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/7/2019	-	Dry	=	104.3	106.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/8/2019	-	Dry	=	104.3	109.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/9/2019	-	Dry	=	104.3	111.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/10/2019	-	Dry	=	104.3	113.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/11/2019	-	Dry	=	104.3	116.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/12/2019	◆ 6:27	Dry	=	206.3	121.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/13/2019	-	Dry	=	206.3	127.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/14/2019	-	Dry	=	206.3	124.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/15/2019	-	Dry	=	206.3	121.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/16/2019	-	Dry	=	206.3	118.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/17/2019	-	Dry	=	206.3	115.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/18/2019	-	Dry	=	206.3	112.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/19/2019	◆ 9:50	Dry	=	77.6	106.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/20/2019	-	Dry	=	77.6	100.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/21/2019	-	Dry	=	77.6	101.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/22/2019	-	Dry	=	77.6	102.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/23/2019	-	Dry	=	77.6	103.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/24/2019	-	Dry	=	77.6	105.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/25/2019	-	Dry	=	77.6	106.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/26/2019	◆ 8:55	Dry	=	101.7	108.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/27/2019	-	Wet	=	101.7	74.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/28/2019	-	Wet	=	101.7	76.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/29/2019	-	Dry	=	101.7	111.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	11/30/2019	-	Wet	=	101.7	74.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/1/2019	-	Dry	=	101.7	111.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/2/2019	-	Dry	=	101.7	111.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/3/2019	◆ 7:20	Dry	=	108.1	112.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/4/2019	-	Wet	=	108.1	71.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/5/2019	-	Wet	=	108.1	69.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/6/2019	-	Wet	=	108.1	67.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/7/2019	-	Wet	=	108.1	65.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/8/2019	-	Wet	=	108.1	63.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/9/2019	-	Wet	=	108.1	61.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/10/2019	◆ 8:30	Wet	=	78.5	63.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/11/2019	-	Wet	=	78.5	65.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/12/2019	-	Dry	=	78.5	111.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/13/2019	-	Dry	=	78.5	110.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/14/2019	-	Dry	=	78.5	110.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/15/2019	-	Dry	=	78.5	109.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/16/2019	-	Dry	=	78.5	108.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/17/2019	◆ 9:50	Dry	=	36.4	104.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/18/2019	-	Dry	=	36.4	101.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/19/2019	-	Dry	=	36.4	97.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/20/2019	-	Dry	=	36.4	94.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/21/2019	-	Dry	=	36.4	91.1		n/a	n/a		n/a	n/a		n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
					(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)	
SCRR3-RW1	12/22/2019		-	Wet	=	36.4	66.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/23/2019		-	Wet	=	36.4	67.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/24/2019	◆	8:11	Wet	=	235.9	72.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/25/2019		-	Wet	=	235.9	77.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/26/2019		-	Wet	=	235.9	83.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/27/2019		-	Wet	=	235.9	88.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/28/2019		-	Wet	=	235.9	93.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/29/2019		-	Wet	=	235.9	99.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/30/2019		-	Dry	=	235.9	93.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	12/31/2019	◆	8:30	Dry	=	52.0	89.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/1/2020		-	Dry	=	52.0	85.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/2/2020		-	Dry	=	52.0	81.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/3/2020		-	Dry	=	52.0	77.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/4/2020		-	Dry	=	52.0	74.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/5/2020		-	Dry	=	52.0	71.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/6/2020		-	Dry	=	52.0	67.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/7/2020	◆	9:17	Dry	=	25.9	65.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/8/2020		-	Dry	=	25.9	63.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/9/2020		-	Dry	=	25.9	60.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/10/2020		-	Dry	=	25.9	58.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/11/2020		-	Dry	=	25.9	56.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/12/2020		-	Dry	=	25.9	54.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/13/2020		-	Dry	=	25.9	52.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/14/2020	◆	9:10	Dry	=	27.2	50.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/15/2020		-	Dry	=	27.2	48.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/16/2020		-	Wet	=	27.2	98.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/17/2020		-	Wet	=	27.2	97.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/18/2020		-	Wet	=	27.2	96.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/19/2020		-	Wet	=	27.2	95.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/20/2020		-	Dry	=	27.2	46.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/21/2020	◆	10:16	Dry	=	51.2	45.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/22/2020		-	Dry	=	51.2	43.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/23/2020		-	Dry	=	51.2	43.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/24/2020		-	Dry	=	51.2	42.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/25/2020		-	Dry	=	51.2	42.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/26/2020		-	Dry	=	51.2	41.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/27/2020		-	Dry	=	51.2	40.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/28/2020	◆	8:59	Dry	=	30.5	40.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/29/2020		-	Dry	=	30.5	40.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/30/2020		-	Dry	=	30.5	40.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	1/31/2020		-	Dry	=	30.5	39.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	2/1/2020		-	Dry	=	30.5	39.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	2/2/2020		-	Dry	=	30.5	37.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	2/3/2020		-	Dry	=	30.5	36.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	2/4/2020	◆	9:30	Dry	=	30.0	35.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	2/5/2020		-	Dry	=	30.0	35.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	2/6/2020		-	Dry	=	30.0	34.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	2/7/2020		-	Dry	=	30.0	33.9		n/a	n/a		n/a	n/a		n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
					(235)	(126)	(10,000)	(1,000)	(400)	(200)	(104)	(35)
SCRR3-RW1	2/8/2020		-	Dry	=	30.0	33.2	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/9/2020		-	Dry	=	30.0	32.6	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/10/2020		-	Dry	=	30.0	32.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/11/2020	◆ 9:00	-	Dry	=	4.1	30.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/12/2020		-	Dry	=	4.1	29.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/13/2020		-	Dry	=	4.1	27.3	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/14/2020		-	Dry	=	4.1	25.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/15/2020		-	Dry	=	4.1	24.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/16/2020		-	Dry	=	4.1	22.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/17/2020		-	Dry	=	4.1	21.3	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/18/2020	◆ 11:45	-	Dry	<	10.0	20.6	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/19/2020		-	Dry	<	10.0	19.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/20/2020		-	Dry	<	10.0	18.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/21/2020		-	Dry	<	10.0	17.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/22/2020		-	Dry	<	10.0	16.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/23/2020		-	Dry	<	10.0	16.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/24/2020		-	Dry	<	10.0	15.2	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/25/2020	◆ 12:00	-	Dry	=	63.0	15.3	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/26/2020		-	Dry	=	63.0	15.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/27/2020		-	Dry	=	63.0	15.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/28/2020		-	Dry	=	63.0	16.2	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	2/29/2020		-	Dry	=	63.0	16.5	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/1/2020		-	Dry	=	63.0	17.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/2/2020		-	Dry	=	63.0	17.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/3/2020	◆ 11:48	-	Dry	=	96.0	18.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/4/2020		-	Dry	=	96.0	18.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/5/2020		-	Dry	=	96.0	19.5	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/6/2020		-	Dry	=	96.0	20.3	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/7/2020		-	Dry	=	96.0	21.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/8/2020		-	Dry	=	96.0	21.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/9/2020		-	Dry	=	96.0	22.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/10/2020		-	Wet	=	96.0	94.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/11/2020	◆ 14:00	-	Wet	=	1,126.0	102.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/12/2020		-	Wet	=	1,126.0	110.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/13/2020		-	Wet	=	1,126.0	119.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/14/2020		-	Wet	=	1,126.0	129.5	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/15/2020		-	Wet	=	1,126.0	140.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/16/2020		-	Wet	=	1,126.0	151.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/17/2020	◆ 8:00	-	Wet	=	1,421.0	165.3	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/18/2020		-	Wet	=	1,421.0	180.5	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/19/2020		-	Wet	=	1,421.0	197.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/20/2020		-	Wet	=	1,421.0	214.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/21/2020		-	Dry	=	1,421.0	25.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/22/2020		-	Wet	=	1,421.0	234.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/23/2020		-	Wet	=	1,421.0	255.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/24/2020	◆ 9:45	-	Wet	=	17.5	240.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/25/2020		-	Wet	=	17.5	225.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	3/26/2020		-	Wet	=	17.5	212.5	n/a	n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
					(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
SCRR3-RW1	3/27/2020		-	Wet	=	17.5	202.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	3/28/2020		-	Dry	=	17.5	25.4		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	3/29/2020		-	Dry	=	17.5	26.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	3/30/2020		-	Dry	=	17.5	28.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	3/31/2020	◆ 10:00		Dry	=	41.0	30.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/1/2020		-	Dry	=	41.0	32.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/2/2020		-	Dry	=	41.0	35.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/3/2020		-	Dry	=	41.0	38.1		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/4/2020		-	Dry	=	41.0	41.1		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/5/2020		-	Wet	=	41.0	197.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/6/2020		-	Wet	=	41.0	198.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/7/2020	◆ 10:00		Wet	=	169.0	209.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/8/2020		-	Wet	=	169.0	206.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/9/2020		-	Wet	=	169.0	204.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/10/2020		-	Wet	=	169.0	202.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/11/2020		-	Wet	=	169.0	200.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/12/2020		-	Wet	=	169.0	197.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/13/2020		-	Dry	=	169.0	45.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/14/2020	◆ 10:20		Dry	=	63.0	48.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/15/2020		-	Dry	=	63.0	51.1		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/16/2020		-	Dry	=	63.0	54.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/17/2020		-	Dry	=	63.0	57.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/18/2020		-	Dry	=	63.0	61.4		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/19/2020		-	Dry	=	63.0	65.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/20/2020		-	Dry	=	63.0	65.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/21/2020	◆ 10:50		Dry	=	86.0	65.9		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/22/2020		-	Dry	=	86.0	66.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/23/2020		-	Dry	=	86.0	67.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/24/2020		-	Dry	=	86.0	68.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/25/2020		-	Dry	=	86.0	68.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/26/2020		-	Dry	=	86.0	69.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/27/2020		-	Dry	=	86.0	69.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/28/2020	◆ 7:30		Dry	=	31.0	66.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/29/2020		-	Dry	=	31.0	64.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	4/30/2020		-	Dry	=	31.0	61.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/1/2020		-	Dry	=	31.0	59.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/2/2020		-	Dry	=	31.0	57.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/3/2020		-	Dry	=	31.0	55.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/4/2020		-	Dry	=	31.0	48.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/5/2020	◆ 7:30		Dry	=	52.0	50.4		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/6/2020		-	Dry	=	52.0	52.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/7/2020		-	Dry	=	52.0	54.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/8/2020		-	Dry	=	52.0	54.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/9/2020		-	Dry	=	52.0	55.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/10/2020		-	Dry	=	52.0	55.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/11/2020		-	Dry	=	52.0	55.9		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/12/2020	◆ 7:50		Dry	=	31.0	55.4		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/13/2020		-	Dry	=	31.0	52.4		n/a	n/a		n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
					(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
SCRR3-RW1	5/14/2020		-	Dry	=	31.0	51.1		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/15/2020		-	Dry	=	31.0	49.9		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/16/2020		-	Dry	=	31.0	48.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/17/2020		-	Dry	=	31.0	47.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/18/2020		-	Wet	=	31.0	184.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/19/2020	◆ 8:50	-	Wet	=	52.0	188.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/20/2020		-	Wet	=	52.0	193.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/21/2020		-	Wet	=	52.0	197.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/22/2020		-	Dry	=	52.0	47.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/23/2020		-	Dry	=	52.0	47.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/24/2020		-	Dry	=	52.0	46.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/25/2020		-	Dry	=	52.0	46.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/26/2020	◆ 8:20	-	Dry	=	41.0	44.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/27/2020		-	Dry	=	41.0	43.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/28/2020		-	Dry	=	41.0	42.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/29/2020		-	Dry	=	41.0	41.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/30/2020		-	Dry	=	41.0	40.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	5/31/2020		-	Dry	=	41.0	39.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/1/2020		-	Dry	=	41.0	40.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/2/2020	◆ 8:00	-	Dry	=	75.0	41.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/3/2020		-	Dry	=	75.0	42.4		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/4/2020		-	Dry	=	75.0	43.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/5/2020		-	Dry	=	75.0	45.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/6/2020		-	Dry	=	75.0	46.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/7/2020		-	Dry	=	75.0	47.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/8/2020		-	Dry	=	75.0	48.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/9/2020	◆ 8:40	-	Dry	=	41.0	47.9		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/10/2020		-	Dry	=	41.0	47.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/11/2020		-	Dry	=	41.0	47.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/12/2020		-	Dry	=	41.0	46.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/13/2020		-	Dry	=	41.0	46.4		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/14/2020		-	Dry	=	41.0	46.1		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/15/2020		-	Dry	=	41.0	46.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/16/2020	◆ 9:20	-	Dry	=	243.0	49.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/17/2020		-	Dry	=	243.0	53.3		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/18/2020		-	Dry	=	243.0	57.1		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/19/2020		-	Dry	=	243.0	61.2		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/20/2020		-	Dry	=	243.0	65.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/21/2020		-	Dry	=	243.0	69.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/22/2020		-	Dry	=	243.0	72.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/23/2020	◆ 7:00	-	Dry	=	84.0	73.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/24/2020		-	Dry	=	84.0	75.0		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/25/2020		-	Dry	=	84.0	76.8		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/26/2020		-	Dry	=	84.0	78.7		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/27/2020		-	Dry	=	84.0	80.6		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/28/2020		-	Dry	=	84.0	82.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/29/2020		-	Dry	=	84.0	84.5		n/a	n/a		n/a	n/a	n/a	n/a
SCRR3-RW1	6/30/2020	◆ 10:35	-	Dry	=	61.0	85.7		n/a	n/a		n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain		Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
					E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
					(235)	(126)	(10,000)	(1,000)	(400)	(200)	(104)	(35)
SCRR3-RW1	7/1/2020		-	Dry	=	61.0	86.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/2/2020		-	Dry	=	61.0	86.2	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/3/2020		-	Dry	=	61.0	85.6	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/4/2020		-	Dry	=	61.0	85.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/5/2020		-	Dry	=	61.0	84.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/6/2020		-	Dry	=	61.0	83.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/7/2020	◆ 8:20	-	Dry	=	74.0	83.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/8/2020		-	Dry	=	74.0	83.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/9/2020		-	Dry	=	74.0	85.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/10/2020		-	Dry	=	74.0	87.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/11/2020		-	Dry	=	74.0	88.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/12/2020		-	Dry	=	74.0	90.6	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/13/2020		-	Dry	=	74.0	92.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/14/2020	◆ 8:00	-	Dry	=	146.0	96.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/15/2020		-	Dry	=	146.0	100.6	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/16/2020		-	Dry	=	146.0	98.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/17/2020		-	Dry	=	146.0	97.3	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/18/2020		-	Dry	=	146.0	95.6	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/19/2020		-	Dry	=	146.0	94.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/20/2020		-	Dry	=	146.0	92.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/21/2020	◆ 9:31	-	Dry	=	301.0	93.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/22/2020		-	Dry	=	301.0	93.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/23/2020		-	Dry	=	301.0	97.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/24/2020		-	Dry	=	301.0	102.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/25/2020		-	Dry	=	301.0	106.5	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/26/2020		-	Dry	=	301.0	111.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/27/2020		-	Dry	=	301.0	116.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/28/2020	◆ 8:45	-	Dry	=	120.0	117.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/29/2020		-	Dry	=	120.0	118.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/30/2020		-	Dry	=	120.0	121.5	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	7/31/2020		-	Dry	=	120.0	124.2	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/1/2020		-	Dry	=	120.0	127.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/2/2020		-	Dry	=	120.0	130.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/3/2020		-	Dry	=	120.0	132.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/4/2020	◆ 9:00	-	Dry	=	231.0	139.0	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/5/2020		-	Dry	=	231.0	145.3	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/6/2020		-	Dry	=	231.0	150.9	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/7/2020		-	Dry	=	231.0	156.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/8/2020		-	Dry	=	231.0	162.8	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/9/2020		-	Dry	=	231.0	169.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/10/2020		-	Dry	=	231.0	175.6	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/11/2020	◆ 8:25	-	Dry	=	243.0	182.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/12/2020		-	Dry	=	243.0	190.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/13/2020		-	Dry	=	243.0	193.4	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/14/2020		-	Dry	=	243.0	196.7	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/15/2020		-	Dry	=	243.0	200.1	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/16/2020		-	Dry	=	243.0	203.5	n/a	n/a	n/a	n/a	n/a
SCRR3-RW1	8/17/2020		-	Dry	=	243.0	207.0	n/a	n/a	n/a	n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean		Single Sample	30-Day Geomean
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
					(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
SCRR3-RW1	8/18/2020	◆ 9:44	Dry	=	110.0	205.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/19/2020	-	Dry	=	110.0	203.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/20/2020	-	Dry	=	110.0	196.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/21/2020	-	Dry	=	110.0	189.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/22/2020	-	Dry	=	110.0	183.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/23/2020	-	Dry	=	110.0	177.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/24/2020	-	Dry	=	110.0	171.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/25/2020	◆ 8:43	Dry	=	301.0	171.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/26/2020	-	Dry	=	301.0	171.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/27/2020	-	Dry	=	301.0	177.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/28/2020	-	Dry	=	301.0	182.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/29/2020	-	Dry	=	301.0	188.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/30/2020	-	Dry	=	301.0	194.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	8/31/2020	-	Dry	=	301.0	200.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/1/2020	◆ 8:57	Dry	=	624.0	211.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/2/2020	-	Dry	=	624.0	223.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/3/2020	-	Dry	=	624.0	231.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/4/2020	-	Dry	=	624.0	238.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/5/2020	-	Dry	=	624.0	246.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/6/2020	-	Dry	=	624.0	255.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/7/2020	-	Dry	=	624.0	263.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/8/2020	◆ 10:45	Dry	=	41.0	248.9		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/9/2020	-	Dry	=	41.0	235.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/10/2020	-	Dry	=	41.0	221.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/11/2020	-	Dry	=	41.0	208.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/12/2020	-	Dry	=	41.0	196.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/13/2020	-	Dry	=	41.0	185.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/14/2020	-	Dry	=	41.0	174.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/15/2020	◆ 10:11	Dry	=	72.8	167.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/16/2020	-	Dry	=	72.8	161.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/17/2020	-	Dry	=	72.8	159.0		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/18/2020	-	Dry	=	72.8	156.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/19/2020	-	Dry	=	72.8	154.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/20/2020	-	Dry	=	72.8	152.6		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/21/2020	-	Dry	=	72.8	150.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/22/2020	◆ 8:10	Dry	=	31.0	144.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/23/2020	-	Dry	=	31.0	138.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/24/2020	-	Dry	=	31.0	128.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/25/2020	-	Dry	=	31.0	118.8		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/26/2020	-	Dry	=	31.0	110.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/27/2020	-	Dry	=	31.0	102.1		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/28/2020	-	Dry	=	31.0	94.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/29/2020	◆ 9:45	Dry	=	52.0	89.3		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	9/30/2020	-	Dry	=	52.0	84.2		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/1/2020	-	Dry	=	52.0	77.5		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/2/2020	-	Dry	=	52.0	71.4		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/3/2020	-	Dry	=	52.0	65.7		n/a	n/a		n/a	n/a		n/a	n/a
SCRR3-RW1	10/4/2020	-	Dry	=	52.0	60.5		n/a	n/a		n/a	n/a		n/a	n/a

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	
					E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)		
					(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)	
SCRR3-RW1	10/5/2020		-	Dry	=	52.0	55.7	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/6/2020	◆ 8:27	-	Dry	=	42.0	50.9	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/7/2020		-	Dry	=	42.0	46.5	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/8/2020		-	Dry	=	42.0	46.5	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/9/2020		-	Dry	=	42.0	46.6	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/10/2020		-	Dry	=	42.0	46.6	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/11/2020		-	Dry	=	42.0	46.6	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/12/2020		-	Dry	=	42.0	46.7	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/13/2020	◆ 8:25	-	Dry	=	52.0	47.1	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/14/2020		-	Dry	=	52.0	47.4	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/15/2020		-	Dry	=	52.0	46.9	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/16/2020		-	Dry	=	52.0	46.4	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/17/2020		-	Dry	=	52.0	45.9	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/18/2020		-	Dry	=	52.0	45.3	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/19/2020		-	Dry	=	52.0	44.8	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/20/2020	◆ 11:00	-	Dry	=	74.0	44.9	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/21/2020		-	Dry	=	74.0	44.9	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/22/2020		-	Dry	=	74.0	46.2	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/23/2020		-	Dry	=	74.0	47.6	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/24/2020		-	Dry	=	74.0	49.0	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/25/2020		-	Dry	=	74.0	50.4	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/26/2020		-	Dry	=	74.0	51.9	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/27/2020	◆ 9:35	-	Dry	=	109.0	54.1	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/28/2020		-	Dry	=	109.0	56.4	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/29/2020		-	Dry	=	109.0	57.8	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/30/2020		-	Dry	=	109.0	59.3	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	10/31/2020		-	Dry	=	109.0	60.8	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	11/1/2020		-	Dry	=	109.0	62.3	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
SCRR3-RW1	11/2/2020		-	Dry	=	109.0	63.8	=	n/a	n/a	=	n/a	n/a	=	n/a	n/a
Santa Clara River Estuary																
SCRE-R005	11/5/2019	◆ 12:15	-	Dry	=	n/a	n/a	=	16,000.0	3,965.7	<	18.0	30.0	=	17.1	163.4
SCRE-R005	11/6/2019		-	Dry	=	n/a	n/a	=	16,000.0	3,965.7	<	18.0	28.6	=	17.1	152.8
SCRE-R005	11/7/2019		-	Dry	=	n/a	n/a	=	16,000.0	4,358.7	<	18.0	28.6	=	17.1	142.9
SCRE-R005	11/8/2019		-	Dry	=	n/a	n/a	=	16,000.0	4,790.6	<	18.0	28.6	=	17.1	133.6
SCRE-R005	11/9/2019		-	Dry	=	n/a	n/a	=	16,000.0	5,265.3	<	18.0	28.6	=	17.1	124.9
SCRE-R005	11/10/2019		-	Dry	=	n/a	n/a	=	16,000.0	5,787.1	<	18.0	28.6	=	17.1	116.8
SCRE-R005	11/11/2019		-	Dry	=	n/a	n/a	=	16,000.0	6,360.5	<	18.0	28.6	=	17.1	109.2
SCRE-R005	11/12/2019		-	Dry	=	n/a	n/a	=	16,000.0	6,990.7	<	18.0	28.6	=	17.1	102.1
SCRE-R005	11/13/2019	◆ 8:03	-	Dry	=	n/a	n/a	=	700.0	6,922.4	=	20.0	28.7	=	100.8	101.3
SCRE-R005	11/14/2019		-	Dry	=	n/a	n/a	=	700.0	6,352.8	=	20.0	28.8	=	100.8	102.3
SCRE-R005	11/15/2019		-	Dry	=	n/a	n/a	=	700.0	5,830.1	=	20.0	28.9	=	100.8	103.3
SCRE-R005	11/16/2019		-	Dry	=	n/a	n/a	=	700.0	5,350.4	=	20.0	29.0	=	100.8	104.3
SCRE-R005	11/17/2019		-	Dry	=	n/a	n/a	=	700.0	4,910.2	=	20.0	29.1	=	100.8	105.4
SCRE-R005	11/18/2019		-	Dry	=	n/a	n/a	=	700.0	4,506.2	=	20.0	29.2	=	100.8	106.4
SCRE-R005	11/19/2019	◆ 9:03	-	Dry	=	n/a	n/a	=	3,500.0	4,363.3	<	18.0	29.2	=	18.7	101.6
SCRE-R005	11/20/2019		-	Dry	=	n/a	n/a	=	3,500.0	4,225.0	<	18.0	29.2	=	18.7	97.0
SCRE-R005	11/21/2019		-	Dry	=	n/a	n/a	=	3,500.0	4,378.5	<	18.0	29.2	=	18.7	89.5

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	<	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
SCRE-R005	11/22/2019	-	Dry	n/a	n/a	=	3,500.0	4,537.5	<	18.0	29.2	=	18.7	82.7
SCRE-R005	11/23/2019	-	Dry	n/a	n/a	=	3,500.0	4,702.4	<	18.0	29.2	=	18.7	76.3
SCRE-R005	11/24/2019	-	Dry	n/a	n/a	=	3,500.0	4,873.2	<	18.0	29.2	=	18.7	70.5
SCRE-R005	11/25/2019	-	Dry	n/a	n/a	=	3,500.0	5,050.2	<	18.0	29.2	=	18.7	65.1
SCRE-R005	11/26/2019	◆ 8:55	Dry	n/a	n/a	=	1,700.0	5,109.2	=	20.0	29.3	=	1,413.6	69.4
SCRE-R005	11/27/2019	-	Dry	n/a	n/a	=	1,700.0	5,168.8	=	20.0	29.4	=	1,413.6	74.0
SCRE-R005	11/28/2019	-	Dry	n/a	n/a	=	1,700.0	4,796.6	=	20.0	27.6	=	1,413.6	76.6
SCRE-R005	11/29/2019	-	Dry	n/a	n/a	=	1,700.0	4,451.2	=	20.0	25.9	=	1,413.6	79.2
SCRE-R005	11/30/2019	-	Dry	n/a	n/a	=	1,700.0	4,130.7	=	20.0	24.4	=	1,413.6	81.9
SCRE-R005	12/1/2019	-	Dry	n/a	n/a	=	1,700.0	3,833.3	=	20.0	22.9	=	1,413.6	84.7
SCRE-R005	12/2/2019	-	Dry	n/a	n/a	=	1,700.0	3,557.2	=	20.0	21.5	=	1,413.6	87.5
SCRE-R005	12/3/2019	◆ 9:45	Wet	n/a	n/a	>	16,000.0	6,335.6	=	1,400.0	453.2	=	16.0	233.1
SCRE-R005	12/4/2019	-	Wet	n/a	n/a	>	16,000.0	6,335.6	=	1,400.0	450.3	=	16.0	213.7
SCRE-R005	12/5/2019	-	Wet	n/a	n/a	>	16,000.0	6,664.8	=	1,400.0	472.5	=	16.0	195.3
SCRE-R005	12/6/2019	-	Wet	n/a	n/a	>	16,000.0	7,011.1	=	1,400.0	495.8	=	16.0	178.5
SCRE-R005	12/7/2019	-	Wet	n/a	n/a	>	16,000.0	7,375.5	=	1,400.0	520.3	=	16.0	163.1
SCRE-R005	12/8/2019	-	Wet	n/a	n/a	>	16,000.0	7,758.8	=	1,400.0	546.0	=	16.0	149.1
SCRE-R005	12/9/2019	-	Wet	n/a	n/a	>	16,000.0	8,161.9	=	1,400.0	572.9	=	16.0	136.3
SCRE-R005	12/10/2019	◆ 8:20	Wet	n/a	n/a	=	16,000.0	8,586.1	=	790.0	589.8	=	631.1	140.8
SCRE-R005	12/11/2019	-	Wet	n/a	n/a	=	16,000.0	9,032.3	=	790.0	607.2	=	631.1	145.4
SCRE-R005	12/12/2019	-	Wet	n/a	n/a	=	16,000.0	9,032.3	=	790.0	634.7	=	631.1	151.6
SCRE-R005	12/13/2019	-	Wet	n/a	n/a	=	16,000.0	9,032.3	=	790.0	663.3	=	631.1	158.2
SCRE-R005	12/14/2019	-	Wet	n/a	n/a	=	16,000.0	9,032.3	=	790.0	693.3	=	631.1	164.9
SCRE-R005	12/15/2019	-	Wet	n/a	n/a	=	16,000.0	9,032.3	=	790.0	724.6	=	631.1	172.0
SCRE-R005	12/16/2019	-	Wet	n/a	n/a	=	16,000.0	9,032.3	=	790.0	757.3	=	631.1	179.4
SCRE-R005	12/17/2019	◆ 8:45	Dry	n/a	n/a	=	9,200.0	3,492.2	=	490.0	22.5	=	101.4	82.9
SCRE-R005	12/18/2019	-	Dry	n/a	n/a	=	9,200.0	3,428.4	=	490.0	23.5	=	101.4	78.5
SCRE-R005	12/19/2019	-	Dry	n/a	n/a	=	9,200.0	3,365.7	=	490.0	26.2	=	101.4	83.3
SCRE-R005	12/20/2019	-	Dry	n/a	n/a	=	9,200.0	3,304.2	=	490.0	29.3	=	101.4	88.4
SCRE-R005	12/21/2019	-	Dry	n/a	n/a	=	9,200.0	3,243.8	=	490.0	32.7	=	101.4	93.8
SCRE-R005	12/22/2019	-	Dry	n/a	n/a	=	9,200.0	3,184.5	=	490.0	36.5	=	101.4	99.6
SCRE-R005	12/23/2019	-	Dry	n/a	n/a	=	9,200.0	3,126.3	=	490.0	40.7	=	101.4	105.7
SCRE-R005	12/24/2019	◆ 8:16	Wet	n/a	n/a	>	16,000.0	9,032.3	=	1,100.0	800.3	>	2,419.2	195.7
SCRE-R005	12/25/2019	-	Wet	n/a	n/a	>	16,000.0	9,032.3	=	1,100.0	845.7	>	2,419.2	213.4
SCRE-R005	12/26/2019	-	Wet	n/a	n/a	>	16,000.0	9,200.4	=	1,100.0	841.0	>	2,419.2	226.0
SCRE-R005	12/27/2019	-	Wet	n/a	n/a	>	16,000.0	9,371.7	=	1,100.0	836.3	>	2,419.2	239.3
SCRE-R005	12/28/2019	-	Wet	n/a	n/a	>	16,000.0	9,546.2	=	1,100.0	831.7	>	2,419.2	253.4
SCRE-R005	12/29/2019	-	Wet	n/a	n/a	>	16,000.0	9,723.9	=	1,100.0	827.1	>	2,419.2	268.3
SCRE-R005	12/30/2019	-	Wet	n/a	n/a	>	16,000.0	9,905.0	=	1,100.0	822.5	>	2,419.2	284.0
SCRE-R005	12/31/2019	◆ 10:15	Dry	n/a	n/a	=	2,400.0	2,934.8	=	230.0	44.3	=	13.4	104.8
SCRE-R005	1/1/2020	-	Dry	n/a	n/a	=	2,400.0	2,754.9	=	230.0	48.3	=	13.4	104.0
SCRE-R005	1/2/2020	-	Dry	n/a	n/a	=	2,400.0	2,586.1	=	230.0	52.5	=	13.4	103.1
SCRE-R005	1/3/2020	-	Dry	n/a	n/a	=	2,400.0	2,694.5	=	230.0	57.0	=	13.4	96.4
SCRE-R005	1/4/2020	-	Dry	n/a	n/a	=	2,400.0	2,807.5	=	230.0	61.8	=	13.4	90.1
SCRE-R005	1/5/2020	-	Dry	n/a	n/a	=	2,400.0	2,925.2	=	230.0	67.1	=	13.4	84.3
SCRE-R005	1/6/2020	-	Dry	n/a	n/a	=	2,400.0	3,047.9	=	230.0	72.8	=	13.4	78.8
SCRE-R005	1/7/2020	◆ 9:39	Dry	n/a	n/a	=	5,400.0	3,262.6	=	220.0	78.8	=	88.4	78.4
SCRE-R005	1/8/2020	-	Dry	n/a	n/a	=	5,400.0	3,492.6	=	220.0	85.4	=	88.4	78.1

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
SCRE-R005	1/9/2020	-	Dry	n/a	n/a	=	5,400.0	3,543.4	=	220.0	92.8	=	88.4	82.3
SCRE-R005	1/10/2020	-	Dry	n/a	n/a	=	5,400.0	3,595.0	=	220.0	100.9	=	88.4	86.6
SCRE-R005	1/11/2020	-	Dry	n/a	n/a	=	5,400.0	3,647.4	=	220.0	109.7	=	88.4	91.2
SCRE-R005	1/12/2020	-	Dry	n/a	n/a	=	5,400.0	3,700.5	=	220.0	119.2	=	88.4	96.1
SCRE-R005	1/13/2020	-	Dry	n/a	n/a	=	5,400.0	3,754.3	=	220.0	129.6	=	88.4	101.2
SCRE-R005	1/14/2020	♦ 9:32	Dry	n/a	n/a	=	490.0	3,516.2	<	18.0	129.6	=	5.2	97.0
SCRE-R005	1/15/2020	-	Dry	n/a	n/a	=	490.0	3,293.1	<	18.0	129.6	=	5.2	92.9
SCRE-R005	1/16/2020	-	Dry	n/a	n/a	=	490.0	3,159.4	<	18.0	129.1	=	5.2	77.1
SCRE-R005	1/17/2020	-	Dry	n/a	n/a	=	490.0	3,031.0	<	18.0	128.7	=	5.2	63.9
SCRE-R005	1/18/2020	-	Dry	n/a	n/a	=	490.0	2,907.9	<	18.0	128.2	=	5.2	53.0
SCRE-R005	1/19/2020	-	Dry	n/a	n/a	=	490.0	2,789.8	<	18.0	127.8	=	5.2	44.0
SCRE-R005	1/20/2020	-	Dry	n/a	n/a	=	490.0	2,676.5	<	18.0	127.3	=	5.2	36.5
SCRE-R005	1/21/2020	-	Dry	n/a	n/a	=	490.0	2,567.8	<	18.0	126.9	=	5.2	30.3
SCRE-R005	1/22/2020	♦ 9:45	Dry	n/a	n/a	=	700.0	2,493.0	=	490.0	141.2	=	13.5	25.9
SCRE-R005	1/23/2020	-	Dry	n/a	n/a	=	700.0	2,287.8	=	490.0	141.2	=	13.5	24.2
SCRE-R005	1/24/2020	-	Dry	n/a	n/a	=	700.0	2,099.6	=	490.0	141.2	=	13.5	22.7
SCRE-R005	1/25/2020	-	Dry	n/a	n/a	=	700.0	1,926.8	=	490.0	141.2	=	13.5	21.2
SCRE-R005	1/26/2020	-	Dry	n/a	n/a	=	700.0	1,768.3	=	490.0	141.2	=	13.5	19.8
SCRE-R005	1/27/2020	-	Dry	n/a	n/a	=	700.0	1,622.8	=	490.0	141.2	=	13.5	18.5
SCRE-R005	1/28/2020	♦ 10:20	Dry	n/a	n/a	=	330.0	1,452.4	=	61.0	131.7	=	1.0	15.9
SCRE-R005	1/29/2020	-	Dry	n/a	n/a	=	330.0	1,299.9	=	61.0	122.9	=	1.0	13.6
SCRE-R005	1/30/2020	-	Dry	n/a	n/a	=	330.0	1,216.7	=	61.0	117.5	=	1.0	12.5
SCRE-R005	1/31/2020	-	Dry	n/a	n/a	=	330.0	1,138.9	=	61.0	112.5	=	1.0	11.5
SCRE-R005	2/1/2020	-	Dry	n/a	n/a	=	330.0	1,066.0	=	61.0	107.6	=	1.0	10.5
SCRE-R005	2/2/2020	-	Dry	n/a	n/a	=	330.0	997.7	=	61.0	102.9	=	1.0	9.6
SCRE-R005	2/3/2020	-	Dry	n/a	n/a	=	330.0	933.9	=	61.0	98.5	=	1.0	8.8
SCRE-R005	2/4/2020	♦ 8:35	Dry	n/a	n/a	=	2,300.0	932.6	=	23.0	91.2	<	10.0	8.8
SCRE-R005	2/5/2020	-	Dry	n/a	n/a	>	2,300.0	931.2	=	23.0	84.5	<	10.0	8.7
SCRE-R005	2/6/2020	-	Dry	n/a	n/a	>	2,300.0	905.1	=	23.0	78.3	<	10.0	8.1
SCRE-R005	2/7/2020	-	Dry	n/a	n/a	>	2,300.0	879.7	=	23.0	72.7	<	10.0	7.5
SCRE-R005	2/8/2020	-	Dry	n/a	n/a	>	2,300.0	855.1	=	23.0	67.4	<	10.0	7.0
SCRE-R005	2/9/2020	-	Dry	n/a	n/a	>	2,300.0	831.1	=	23.0	62.5	<	10.0	6.5
SCRE-R005	2/10/2020	-	Dry	n/a	n/a	>	2,300.0	807.8	=	23.0	58.0	<	10.0	6.0
SCRE-R005	2/11/2020	♦ 8:20	Dry	n/a	n/a	>	1,700.0	777.2	=	13.0	52.8	=	30.0	5.8
SCRE-R005	2/12/2020	-	Dry	n/a	n/a	=	1,700.0	747.9	=	13.0	48.0	=	30.0	5.6
SCRE-R005	2/13/2020	-	Dry	n/a	n/a	=	1,700.0	779.5	=	13.0	47.5	=	30.0	5.9
SCRE-R005	2/14/2020	-	Dry	n/a	n/a	=	1,700.0	812.5	=	13.0	47.0	=	30.0	6.3
SCRE-R005	2/15/2020	-	Dry	n/a	n/a	=	1,700.0	846.9	=	13.0	46.5	=	30.0	6.7
SCRE-R005	2/16/2020	-	Dry	n/a	n/a	=	1,700.0	882.8	=	13.0	46.0	=	30.0	7.1
SCRE-R005	2/17/2020	-	Dry	n/a	n/a	=	1,700.0	920.2	=	13.0	45.5	=	30.0	7.5
SCRE-R005	2/18/2020	♦ 9:46	Dry	n/a	n/a	=	110.0	875.5	<	1.8	42.1	=	10.0	7.7
SCRE-R005	2/19/2020	-	Dry	n/a	n/a	=	110.0	832.9	<	1.8	39.0	=	10.0	7.8
SCRE-R005	2/20/2020	-	Dry	n/a	n/a	=	110.0	792.5	<	1.8	36.1	=	10.0	8.0
SCRE-R005	2/21/2020	-	Dry	n/a	n/a	=	110.0	745.1	<	1.8	30.0	=	10.0	7.9
SCRE-R005	2/22/2020	-	Dry	n/a	n/a	=	110.0	700.5	<	1.8	24.9	=	10.0	7.9
SCRE-R005	2/23/2020	-	Dry	n/a	n/a	=	110.0	658.6	<	1.8	20.6	=	10.0	7.8
SCRE-R005	2/24/2020	-	Dry	n/a	n/a	=	110.0	619.2	<	1.8	17.1	=	10.0	7.7
SCRE-R005	2/25/2020	♦ 11:16	Dry	n/a	n/a	=	2,200.0	643.3	=	23.0	15.4	=	20.0	7.8

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
				(235)	(126)	(10,000)	(1,000)	(400)	(200)	(104)	(35)
SCRE-R005	2/26/2020	-	Dry	n/a	n/a	= 2,200.0	668.3	= 23.0	14.0	= 20.0	7.9
SCRE-R005	2/27/2020	-	Dry	n/a	n/a	= 2,200.0	711.9	= 23.0	13.5	= 20.0	8.7
SCRE-R005	2/28/2020	-	Dry	n/a	n/a	= 2,200.0	758.4	= 23.0	13.1	= 20.0	9.7
SCRE-R005	2/29/2020	-	Dry	n/a	n/a	= 2,200.0	807.9	= 23.0	12.7	= 20.0	10.7
SCRE-R005	3/1/2020	-	Dry	n/a	n/a	= 2,200.0	860.7	= 23.0	12.2	= 20.0	11.8
SCRE-R005	3/2/2020	-	Dry	n/a	n/a	= 2,200.0	916.9	= 23.0	11.9	= 20.0	13.0
SCRE-R005	3/3/2020	◆ 11:00	Dry	n/a	n/a	= 1,300.0	959.7	= 33.0	11.6	= 10.0	14.1
SCRE-R005	3/4/2020	-	Dry	n/a	n/a	= 1,300.0	1,004.6	= 33.0	11.4	= 10.0	15.2
SCRE-R005	3/5/2020	-	Dry	n/a	n/a	= 1,300.0	985.7	= 33.0	11.5	= 10.0	15.2
SCRE-R005	3/6/2020	-	Dry	n/a	n/a	= 1,300.0	967.1	= 33.0	11.7	= 10.0	15.2
SCRE-R005	3/7/2020	-	Dry	n/a	n/a	= 1,300.0	948.9	= 33.0	11.8	= 10.0	15.2
SCRE-R005	3/8/2020	-	Dry	n/a	n/a	= 1,300.0	931.0	= 33.0	11.9	= 10.0	15.2
SCRE-R005	3/9/2020	-	Dry	n/a	n/a	= 1,300.0	913.5	= 33.0	12.1	= 10.0	15.2
SCRE-R005	3/10/2020	-	Dry	n/a	n/a	= 1,300.0	896.3	= 33.0	12.2	= 10.0	15.2
SCRE-R005	3/11/2020	◆ 13:00	Wet	n/a	n/a	= 460.0	8,963.6	= 13.0	705.4	< 10.0	250.5
SCRE-R005	3/12/2020	-	Wet	n/a	n/a	= 460.0	8,111.8	= 13.0	605.0	< 10.0	220.9
SCRE-R005	3/13/2020	-	Wet	n/a	n/a	= 460.0	7,677.2	= 13.0	543.2	< 10.0	198.8
SCRE-R005	3/14/2020	-	Wet	n/a	n/a	= 460.0	7,265.9	= 13.0	487.7	< 10.0	178.9
SCRE-R005	3/15/2020	-	Wet	n/a	n/a	= 460.0	6,876.6	= 13.0	437.9	< 10.0	161.0
SCRE-R005	3/16/2020	-	Wet	n/a	n/a	= 460.0	6,508.1	= 13.0	393.1	< 10.0	144.9
SCRE-R005	3/17/2020	◆ 8:55	Wet	n/a	n/a	= 160,000.0	7,486.1	= 14,000.0	445.4	> 24,200.0	169.1
SCRE-R005	3/18/2020	-	Wet	n/a	n/a	= 160,000.0	8,610.9	= 14,000.0	504.7	> 24,200.0	197.3
SCRE-R005	3/19/2020	-	Wet	n/a	n/a	= 160,000.0	9,904.8	= 14,000.0	571.8	> 24,200.0	230.3
SCRE-R005	3/20/2020	-	Wet	n/a	n/a	= 160,000.0	10,695.0	= 14,000.0	617.5	> 24,200.0	293.9
SCRE-R005	3/21/2020	-	Wet	n/a	n/a	= 160,000.0	11,548.2	= 14,000.0	666.7	> 24,200.0	375.1
SCRE-R005	3/22/2020	-	Wet	n/a	n/a	= 160,000.0	12,469.5	= 14,000.0	719.9	> 24,200.0	478.8
SCRE-R005	3/23/2020	-	Wet	n/a	n/a	= 160,000.0	13,464.2	= 14,000.0	777.3	> 24,200.0	611.2
SCRE-R005	3/24/2020	◆ 9:00	Wet	n/a	n/a	= 24,000.0	13,647.4	= 490.0	750.6	= 839.0	697.4
SCRE-R005	3/25/2020	-	Wet	n/a	n/a	= 24,000.0	13,833.1	= 490.0	724.8	= 839.0	795.8
SCRE-R005	3/26/2020	-	Wet	n/a	n/a	= 24,000.0	14,021.4	= 490.0	699.9	= 839.0	908.1
SCRE-R005	3/27/2020	-	Wet	n/a	n/a	= 24,000.0	14,212.1	= 490.0	688.8	= 839.0	916.8
SCRE-R005	3/28/2020	-	Wet	n/a	n/a	= 24,000.0	14,405.5	= 490.0	677.9	= 839.0	925.5
SCRE-R005	3/29/2020	-	Wet	n/a	n/a	= 24,000.0	14,601.6	= 490.0	667.2	= 839.0	934.4
SCRE-R005	3/30/2020	-	Wet	n/a	n/a	= 24,000.0	14,800.2	= 490.0	656.7	= 839.0	943.3
SCRE-R005	3/31/2020	◆ 9:15	Dry	n/a	n/a	= 4,900.0	919.2	= 330.0	13.4	= 83.0	16.3
SCRE-R005	4/1/2020	-	Dry	n/a	n/a	= 4,900.0	952.2	= 330.0	14.9	= 83.0	16.9
SCRE-R005	4/2/2020	-	Dry	n/a	n/a	= 4,900.0	986.4	= 330.0	16.6	= 83.0	17.4
SCRE-R005	4/3/2020	-	Dry	n/a	n/a	= 4,900.0	1,021.8	= 330.0	18.5	= 83.0	18.0
SCRE-R005	4/4/2020	-	Dry	n/a	n/a	= 4,900.0	1,058.5	= 330.0	20.6	= 83.0	18.7
SCRE-R005	4/5/2020	-	Dry	n/a	n/a	= 4,900.0	1,096.5	= 330.0	22.9	= 83.0	19.3
SCRE-R005	4/6/2020	-	Dry	n/a	n/a	= 4,900.0	1,135.9	= 330.0	25.5	= 83.0	20.0
SCRE-R005	4/7/2020	◆ 9:30	Wet	n/a	n/a	= 54,000.0	15,412.7	= 1,700.0	673.7	= 2,755.0	990.8
SCRE-R005	4/8/2020	-	Wet	n/a	n/a	= 54,000.0	16,050.4	= 1,700.0	691.1	= 2,755.0	1,040.6
SCRE-R005	4/9/2020	-	Wet	n/a	n/a	= 54,000.0	16,714.6	= 1,700.0	709.0	= 2,755.0	1,093.0
SCRE-R005	4/10/2020	-	Wet	n/a	n/a	= 54,000.0	17,406.3	= 1,700.0	719.3	= 2,755.0	1,097.8
SCRE-R005	4/11/2020	-	Wet	n/a	n/a	= 54,000.0	18,126.5	= 1,700.0	729.9	= 2,755.0	1,102.6
SCRE-R005	4/12/2020	-	Wet	n/a	n/a	= 54,000.0	18,876.6	= 1,700.0	740.5	= 2,755.0	1,107.3
SCRE-R005	4/13/2020	-	Wet	n/a	n/a	= 54,000.0	19,657.7	= 1,700.0	751.3	= 2,755.0	1,112.2

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
SCRE-R005	4/14/2020	◆ 9:30	Dry	n/a	n/a	=	7,900.0	1,195.6	=	170.0	27.8	=	63.0	20.5
SCRE-R005	4/15/2020	-	Dry	n/a	n/a	=	7,900.0	1,378.6	=	170.0	32.4	=	63.0	21.8
SCRE-R005	4/16/2020	-	Dry	n/a	n/a	=	7,900.0	1,589.7	=	170.0	37.7	=	63.0	23.2
SCRE-R005	4/17/2020	-	Dry	n/a	n/a	=	7,900.0	1,833.2	=	170.0	43.8	=	63.0	24.6
SCRE-R005	4/18/2020	-	Dry	n/a	n/a	=	7,900.0	2,113.8	=	170.0	51.0	=	63.0	26.2
SCRE-R005	4/19/2020	-	Dry	n/a	n/a	=	7,900.0	2,437.5	=	170.0	59.4	=	63.0	27.8
SCRE-R005	4/20/2020	-	Dry	n/a	n/a	=	7,900.0	2,810.7	=	170.0	69.1	=	63.0	29.6
SCRE-R005	4/21/2020	◆ 9:20	Dry	n/a	n/a	=	2,300.0	3,110.5	=	49.0	77.1	=	52.0	31.3
SCRE-R005	4/22/2020	-	Dry	n/a	n/a	=	2,300.0	3,115.1	=	49.0	79.1	=	52.0	32.3
SCRE-R005	4/23/2020	-	Dry	n/a	n/a	=	2,300.0	3,119.8	=	49.0	81.1	=	52.0	33.3
SCRE-R005	4/24/2020	-	Dry	n/a	n/a	=	2,300.0	3,124.4	=	49.0	83.2	=	52.0	34.4
SCRE-R005	4/25/2020	-	Dry	n/a	n/a	=	2,300.0	3,129.0	=	49.0	85.3	=	52.0	35.5
SCRE-R005	4/26/2020	-	Dry	n/a	n/a	=	2,300.0	3,133.7	=	49.0	87.5	=	52.0	36.7
SCRE-R005	4/27/2020	-	Dry	n/a	n/a	=	2,300.0	3,138.3	=	49.0	89.7	=	52.0	37.9
SCRE-R005	4/28/2020	◆ 6:50	Dry	n/a	n/a	=	1,100.0	3,066.6	=	49.0	92.0	=	20.0	37.9
SCRE-R005	4/29/2020	-	Dry	n/a	n/a	=	1,100.0	3,049.6	=	49.0	93.2	=	20.0	38.7
SCRE-R005	4/30/2020	-	Dry	n/a	n/a	=	1,100.0	3,032.7	=	49.0	94.4	=	20.0	39.6
SCRE-R005	5/1/2020	-	Dry	n/a	n/a	=	1,100.0	3,015.8	=	49.0	95.7	=	20.0	40.6
SCRE-R005	5/2/2020	-	Dry	n/a	n/a	=	1,100.0	2,999.1	=	49.0	97.0	=	20.0	41.5
SCRE-R005	5/3/2020	-	Dry	n/a	n/a	=	1,100.0	2,982.4	=	49.0	98.3	=	20.0	42.5
SCRE-R005	5/4/2020	-	Dry	n/a	n/a	=	1,100.0	2,965.9	=	49.0	99.6	=	20.0	43.5
SCRE-R005	5/5/2020	◆ 6:50	Dry	n/a	n/a	=	1,300.0	2,965.9	=	170.0	105.2	=	63.0	46.2
SCRE-R005	5/6/2020	-	Dry	n/a	n/a	=	1,300.0	2,965.9	=	170.0	111.1	=	63.0	49.2
SCRE-R005	5/7/2020	-	Dry	n/a	n/a	=	1,300.0	2,837.5	=	170.0	108.6	=	63.0	48.7
SCRE-R005	5/8/2020	-	Dry	n/a	n/a	=	1,300.0	2,714.8	=	170.0	106.3	=	63.0	48.3
SCRE-R005	5/9/2020	-	Dry	n/a	n/a	=	1,300.0	2,597.3	=	170.0	103.9	=	63.0	47.8
SCRE-R005	5/10/2020	-	Dry	n/a	n/a	=	1,300.0	2,484.9	=	170.0	101.7	=	63.0	47.4
SCRE-R005	5/11/2020	-	Dry	n/a	n/a	=	1,300.0	2,377.4	=	170.0	99.4	=	63.0	46.9
SCRE-R005	5/12/2020	◆ 7:20	Dry	n/a	n/a	=	1,700.0	2,295.0	=	230.0	98.2	=	135.0	47.7
SCRE-R005	5/13/2020	-	Dry	n/a	n/a	=	1,700.0	2,215.4	=	230.0	97.1	=	135.0	48.5
SCRE-R005	5/14/2020	-	Dry	n/a	n/a	=	1,700.0	2,104.8	=	230.0	98.1	=	135.0	49.7
SCRE-R005	5/15/2020	-	Dry	n/a	n/a	=	1,700.0	1,999.8	=	230.0	99.0	=	135.0	51.0
SCRE-R005	5/16/2020	-	Dry	n/a	n/a	=	1,700.0	1,899.9	=	230.0	100.0	=	135.0	52.3
SCRE-R005	5/17/2020	-	Dry	n/a	n/a	=	1,700.0	1,805.1	=	230.0	101.1	=	135.0	53.7
SCRE-R005	5/18/2020	-	Dry	n/a	n/a	=	1,700.0	1,715.0	=	230.0	102.1	=	135.0	55.1
SCRE-R005	5/19/2020	◆ 10:40	Dry	n/a	n/a	=	13,000.0	1,743.7	=	700.0	107.0	=	384.0	58.5
SCRE-R005	5/20/2020	-	Dry	n/a	n/a	=	13,000.0	1,772.9	=	700.0	112.2	=	384.0	62.1
SCRE-R005	5/21/2020	-	Dry	n/a	n/a	=	13,000.0	1,878.3	=	700.0	122.6	=	384.0	66.4
SCRE-R005	5/22/2020	-	Dry	n/a	n/a	=	13,000.0	1,989.9	=	700.0	133.9	=	384.0	71.0
SCRE-R005	5/23/2020	-	Dry	n/a	n/a	=	13,000.0	2,108.2	=	700.0	146.4	=	384.0	75.9
SCRE-R005	5/24/2020	-	Dry	n/a	n/a	=	13,000.0	2,233.5	=	700.0	159.9	=	384.0	81.1
SCRE-R005	5/25/2020	-	Dry	n/a	n/a	=	4,900.0	2,290.5	=	490.0	172.7	=	323.0	86.2
SCRE-R005	5/26/2020	◆ 7:45	Dry	n/a	n/a	=	4,900.0	2,349.0	=	490.0	186.5	=	323.0	91.6
SCRE-R005	5/27/2020	-	Dry	n/a	n/a	=	4,900.0	2,408.9	=	490.0	201.3	=	323.0	97.3
SCRE-R005	5/28/2020	-	Dry	n/a	n/a	=	4,900.0	2,531.9	=	490.0	217.4	=	323.0	106.8
SCRE-R005	5/29/2020	-	Dry	n/a	n/a	=	4,900.0	2,661.2	=	490.0	234.7	=	323.0	117.2
SCRE-R005	5/30/2020	-	Dry	n/a	n/a	=	4,900.0	2,797.1	=	490.0	253.5	=	323.0	128.6
SCRE-R005	5/31/2020	-	Dry	n/a	n/a	=	4,900.0	2,939.9	=	490.0	273.7	=	323.0	141.1

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
				(235)	(126)	(10,000)	(1,000)	(400)	(200)	(104)	(35)
SCRE-R005	6/1/2020	-	Dry	n/a	n/a	= 4,900.0	3,090.0	= 490.0	295.5	= 323.0	154.8
SCRE-R005	6/2/2020	◆ 7:30	Dry	n/a	n/a	= 1,700.0	3,135.2	= 490.0	319.1	= 1,500.0	178.7
SCRE-R005	6/3/2020	-	Dry	n/a	n/a	= 1,700.0	3,181.0	= 490.0	344.6	= 1,500.0	206.4
SCRE-R005	6/4/2020	-	Dry	n/a	n/a	= 1,700.0	3,209.6	= 490.0	356.9	= 1,500.0	229.4
SCRE-R005	6/5/2020	-	Dry	n/a	n/a	= 1,700.0	3,238.4	= 490.0	369.8	= 1,500.0	254.9
SCRE-R005	6/6/2020	-	Dry	n/a	n/a	= 1,700.0	3,267.5	= 490.0	383.0	= 1,500.0	283.4
SCRE-R005	6/7/2020	-	Dry	n/a	n/a	= 1,700.0	3,296.8	= 490.0	396.8	= 1,500.0	314.9
SCRE-R005	6/8/2020	-	Dry	n/a	n/a	= 1,700.0	3,326.4	= 490.0	411.0	= 1,500.0	350.0
SCRE-R005	6/9/2020	◆ 8:00	Dry	n/a	n/a	= 17,000.0	3,624.1	= 490.0	425.8	= 1,076.0	384.8
SCRE-R005	6/10/2020	-	Dry	n/a	n/a	= 17,000.0	3,948.3	= 490.0	441.1	= 1,076.0	422.9
SCRE-R005	6/11/2020	-	Dry	n/a	n/a	= 17,000.0	4,263.3	= 490.0	452.4	= 1,076.0	453.2
SCRE-R005	6/12/2020	-	Dry	n/a	n/a	= 17,000.0	4,603.4	= 490.0	463.9	= 1,076.0	485.7
SCRE-R005	6/13/2020	-	Dry	n/a	n/a	= 17,000.0	4,970.7	= 490.0	475.8	= 1,076.0	520.5
SCRE-R005	6/14/2020	-	Dry	n/a	n/a	= 17,000.0	5,367.2	= 490.0	487.9	= 1,076.0	557.8
SCRE-R005	6/15/2020	-	Dry	n/a	n/a	= 17,000.0	5,795.4	= 490.0	500.4	= 1,076.0	597.8
SCRE-R005	6/16/2020	◆ 7:50	Dry	n/a	n/a	= 54,000.0	6,503.5	= 790.0	521.4	= 1,515.0	647.9
SCRE-R005	6/17/2020	-	Dry	n/a	n/a	= 54,000.0	7,298.1	= 790.0	543.3	= 1,515.0	702.3
SCRE-R005	6/18/2020	-	Dry	n/a	n/a	= 54,000.0	7,652.9	= 790.0	545.5	= 1,515.0	735.2
SCRE-R005	6/19/2020	-	Dry	n/a	n/a	= 54,000.0	8,024.9	= 790.0	547.7	= 1,515.0	769.6
SCRE-R005	6/20/2020	-	Dry	n/a	n/a	= 54,000.0	8,415.0	= 790.0	549.9	= 1,515.0	805.6
SCRE-R005	6/21/2020	-	Dry	n/a	n/a	= 54,000.0	8,824.1	= 790.0	552.1	= 1,515.0	843.3
SCRE-R005	6/22/2020	-	Dry	n/a	n/a	= 54,000.0	9,253.1	= 790.0	554.3	= 1,515.0	882.8
SCRE-R005	6/23/2020	◆ 6:30	Dry	n/a	n/a	= 17,000.0	9,336.2	= 2,300.0	576.7	= 420.0	885.5
SCRE-R005	6/24/2020	-	Dry	n/a	n/a	= 17,000.0	9,731.4	= 2,300.0	607.2	= 420.0	893.2
SCRE-R005	6/25/2020	-	Dry	n/a	n/a	= 17,000.0	10,143.4	= 2,300.0	639.4	= 420.0	901.1
SCRE-R005	6/26/2020	-	Dry	n/a	n/a	= 17,000.0	10,572.9	= 2,300.0	673.2	= 420.0	909.0
SCRE-R005	6/27/2020	-	Dry	n/a	n/a	= 17,000.0	11,020.5	= 2,300.0	708.8	= 420.0	917.0
SCRE-R005	6/28/2020	-	Dry	n/a	n/a	= 17,000.0	11,487.1	= 2,300.0	746.3	= 420.0	925.1
SCRE-R005	6/29/2020	-	Dry	n/a	n/a	= 17,000.0	11,973.4	= 2,300.0	785.8	= 420.0	933.2
SCRE-R005	6/30/2020	◆ 10:00	Dry	n/a	n/a	= 3,300.0	11,816.7	= 33.0	718.2	= 10.0	831.1
SCRE-R005	7/1/2020	-	Dry	n/a	n/a	= 3,300.0	11,662.0	= 33.0	656.4	= 10.0	740.2
SCRE-R005	7/2/2020	-	Dry	n/a	n/a	= 3,300.0	11,922.7	= 33.0	600.0	= 10.0	626.4
SCRE-R005	7/3/2020	-	Dry	n/a	n/a	= 3,300.0	12,189.3	= 33.0	548.4	= 10.0	530.0
SCRE-R005	7/4/2020	-	Dry	n/a	n/a	= 3,300.0	12,461.8	= 33.0	501.2	= 10.0	448.5
SCRE-R005	7/5/2020	-	Dry	n/a	n/a	= 3,300.0	12,740.4	= 33.0	458.1	= 10.0	379.5
SCRE-R005	7/6/2020	-	Dry	n/a	n/a	= 3,300.0	13,025.2	= 33.0	418.7	= 10.0	321.1
SCRE-R005	7/7/2020	◆ 7:45	Dry	n/a	n/a	= 54,000.0	14,616.7	= 11.0	368.9	= 20.0	278.1
SCRE-R005	7/8/2020	-	Dry	n/a	n/a	= 54,000.0	16,402.7	= 11.0	325.1	= 20.0	240.8
SCRE-R005	7/9/2020	-	Dry	n/a	n/a	= 54,000.0	17,046.9	= 11.0	286.4	= 20.0	210.9
SCRE-R005	7/10/2020	-	Dry	n/a	n/a	= 54,000.0	17,716.5	= 11.0	252.4	= 20.0	184.6
SCRE-R005	7/11/2020	-	Dry	n/a	n/a	= 54,000.0	18,412.3	= 11.0	222.4	= 20.0	161.7
SCRE-R005	7/12/2020	-	Dry	n/a	n/a	= 54,000.0	19,135.5	= 11.0	195.9	= 20.0	141.5
SCRE-R005	7/13/2020	-	Dry	n/a	n/a	= 54,000.0	19,887.1	= 11.0	172.7	= 20.0	123.9
SCRE-R005	7/14/2020	◆ 7:30	Dry	n/a	n/a	= 7,900.0	19,385.5	= 110.0	164.3	= 31.0	110.1
SCRE-R005	7/15/2020	-	Dry	n/a	n/a	= 7,900.0	18,896.6	= 110.0	156.3	= 31.0	97.8
SCRE-R005	7/16/2020	-	Dry	n/a	n/a	= 7,900.0	17,723.8	= 110.0	146.3	= 31.0	85.9
SCRE-R005	7/17/2020	-	Dry	n/a	n/a	= 7,900.0	16,623.9	= 110.0	137.0	= 31.0	75.5
SCRE-R005	7/18/2020	-	Dry	n/a	n/a	= 7,900.0	15,592.2	= 110.0	128.3	= 31.0	66.3

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
				(235)	(126)	(10,000)	(1,000)	(400)	(200)	(104)	(35)
SCRE-R005	7/19/2020	-	Dry	n/a	n/a	= 7,900.0	14,624.5	= 110.0	120.2	= 31.0	58.3
SCRE-R005	7/20/2020	-	Dry	n/a	n/a	= 7,900.0	13,716.9	= 110.0	112.5	= 31.0	51.2
SCRE-R005	7/21/2020	◆ 7:50	Dry	n/a	n/a	= 24,000.0	13,351.1	= 23.0	100.0	= 10.0	43.3
SCRE-R005	7/22/2020	-	Dry	n/a	n/a	= 24,000.0	12,995.0	= 23.0	88.9	= 10.0	36.6
SCRE-R005	7/23/2020	-	Dry	n/a	n/a	= 24,000.0	13,145.3	= 23.0	76.2	= 10.0	32.3
SCRE-R005	7/24/2020	-	Dry	n/a	n/a	= 24,000.0	13,297.2	= 23.0	65.4	= 10.0	28.5
SCRE-R005	7/25/2020	-	Dry	n/a	n/a	= 24,000.0	13,451.0	= 23.0	56.1	= 10.0	25.2
SCRE-R005	7/26/2020	-	Dry	n/a	n/a	= 24,000.0	13,606.5	= 23.0	48.1	= 10.0	22.2
SCRE-R005	7/27/2020	-	Dry	n/a	n/a	= 24,000.0	13,763.8	= 23.0	41.3	= 10.0	19.6
SCRE-R005	7/28/2020	◆ 8:00	Dry	n/a	n/a	= 7,900.0	13,416.6	= 23.0	35.4	= 20.0	17.7
SCRE-R005	7/29/2020	-	Dry	n/a	n/a	= 7,900.0	13,078.2	= 23.0	30.3	= 20.0	16.0
SCRE-R005	7/30/2020	-	Dry	n/a	n/a	= 7,900.0	13,464.4	= 23.0	30.0	= 20.0	16.4
SCRE-R005	7/31/2020	-	Dry	n/a	n/a	= 7,900.0	13,861.9	= 23.0	29.6	= 20.0	16.8
SCRE-R005	8/1/2020	-	Dry	n/a	n/a	= 7,900.0	14,271.2	= 23.0	29.3	= 20.0	17.2
SCRE-R005	8/2/2020	-	Dry	n/a	n/a	= 7,900.0	14,692.6	= 23.0	28.9	= 20.0	17.6
SCRE-R005	8/3/2020	-	Dry	n/a	n/a	= 7,900.0	15,126.4	= 23.0	28.6	= 20.0	18.0
SCRE-R005	8/4/2020	◆ 8:20	Dry	n/a	n/a	= 2,200.0	14,923.3	= 79.0	29.4	= 20.0	18.4
SCRE-R005	8/5/2020	-	Dry	n/a	n/a	= 2,200.0	14,723.0	= 79.0	30.3	= 20.0	18.8
SCRE-R005	8/6/2020	-	Dry	n/a	n/a	= 2,200.0	13,233.1	= 79.0	32.3	= 20.0	18.8
SCRE-R005	8/7/2020	-	Dry	n/a	n/a	= 2,200.0	11,894.1	= 79.0	34.5	= 20.0	18.8
SCRE-R005	8/8/2020	-	Dry	n/a	n/a	= 2,200.0	10,690.5	= 79.0	36.9	= 20.0	18.8
SCRE-R005	8/9/2020	-	Dry	n/a	n/a	= 2,200.0	9,608.7	= 79.0	39.4	= 20.0	18.8
SCRE-R005	8/10/2020	-	Dry	n/a	n/a	= 2,200.0	8,636.4	= 79.0	42.1	= 20.0	18.8
SCRE-R005	8/11/2020	◆ 7:49	Dry	n/a	n/a	= 3,500.0	7,883.6	= 49.0	44.2	= 30.0	19.1
SCRE-R005	8/12/2020	-	Dry	n/a	n/a	= 3,500.0	7,196.3	= 49.0	46.5	= 30.0	19.4
SCRE-R005	8/13/2020	-	Dry	n/a	n/a	= 3,500.0	7,003.7	= 49.0	45.2	= 30.0	19.3
SCRE-R005	8/14/2020	-	Dry	n/a	n/a	= 3,500.0	6,816.2	= 49.0	44.0	= 30.0	19.3
SCRE-R005	8/15/2020	-	Dry	n/a	n/a	= 3,500.0	6,633.7	= 49.0	42.9	= 30.0	19.3
SCRE-R005	8/16/2020	-	Dry	n/a	n/a	= 3,500.0	6,456.1	= 49.0	41.7	= 30.0	19.3
SCRE-R005	8/17/2020	-	Dry	n/a	n/a	= 3,500.0	6,283.3	= 49.0	40.6	= 30.0	19.3
SCRE-R005	8/18/2020	◆ 7:45	Dry	n/a	n/a	= 24,000.0	6,520.4	= 26.0	38.7	= 63.0	19.7
SCRE-R005	8/19/2020	-	Dry	n/a	n/a	= 24,000.0	6,766.4	= 26.0	36.9	= 63.0	20.2
SCRE-R005	8/20/2020	-	Dry	n/a	n/a	= 24,000.0	6,766.4	= 26.0	37.0	= 63.0	21.5
SCRE-R005	8/21/2020	-	Dry	n/a	n/a	= 24,000.0	6,766.4	= 26.0	37.2	= 63.0	22.8
SCRE-R005	8/22/2020	-	Dry	n/a	n/a	= 24,000.0	6,766.4	= 26.0	37.3	= 63.0	24.3
SCRE-R005	8/23/2020	-	Dry	n/a	n/a	= 24,000.0	6,766.4	= 26.0	37.5	= 63.0	25.8
SCRE-R005	8/24/2020	-	Dry	n/a	n/a	= 24,000.0	6,766.4	= 26.0	37.7	= 63.0	27.4
SCRE-R005	8/25/2020	◆ 7:59	Dry	n/a	n/a	= 17,000.0	6,689.1	= 9.3	36.5	= 41.0	28.8
SCRE-R005	8/26/2020	-	Dry	n/a	n/a	= 17,000.0	6,612.6	= 9.3	35.5	= 41.0	30.1
SCRE-R005	8/27/2020	-	Dry	n/a	n/a	= 17,000.0	6,783.7	= 9.3	34.4	= 41.0	30.9
SCRE-R005	8/28/2020	-	Dry	n/a	n/a	= 17,000.0	6,959.2	= 9.3	33.4	= 41.0	31.6
SCRE-R005	8/29/2020	-	Dry	n/a	n/a	= 17,000.0	7,139.3	= 9.3	32.4	= 41.0	32.4
SCRE-R005	8/30/2020	-	Dry	n/a	n/a	= 17,000.0	7,324.0	= 9.3	31.4	= 41.0	33.2
SCRE-R005	8/31/2020	-	Dry	n/a	n/a	= 17,000.0	7,513.5	= 9.3	30.5	= 41.0	34.0
SCRE-R005	9/1/2020	◆ 8:24	Dry	n/a	n/a	= 7,900.0	7,513.5	= 4.5	28.9	= 20.0	34.0
SCRE-R005	9/2/2020	-	Dry	n/a	n/a	= 7,900.0	7,513.5	= 4.5	27.3	= 20.0	34.0
SCRE-R005	9/3/2020	-	Dry	n/a	n/a	= 7,900.0	7,840.6	= 4.5	24.9	= 20.0	34.0
SCRE-R005	9/4/2020	-	Dry	n/a	n/a	= 7,900.0	8,182.0	= 4.5	22.6	= 20.0	34.0

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)		Total Coliform (MPN/100mL)		Fecal Coliform (MPN/100mL)		Enterococcus (MPN/100mL)	
				(235)	(126)	(10,000)	(1,000)	(400)	(200)	(104)	(35)
SCRE-R005	9/5/2020	-	Dry	n/a	n/a	= 7,900.0	8,538.2	= 4.5	20.5	= 20.0	34.0
SCRE-R005	9/6/2020	-	Dry	n/a	n/a	= 7,900.0	8,909.9	= 4.5	18.7	= 20.0	34.0
SCRE-R005	9/7/2020	-	Dry	n/a	n/a	= 7,900.0	9,297.7	= 4.5	17.0	= 20.0	34.0
SCRE-R005	9/8/2020	◆ 10:00	Dry	n/a	n/a	= 35,000.0	10,196.1	= 460.0	18.0	= 98.0	35.8
SCRE-R005	9/9/2020	-	Dry	n/a	n/a	= 35,000.0	11,181.2	= 460.0	19.1	= 98.0	37.8
SCRE-R005	9/10/2020	-	Dry	n/a	n/a	= 35,000.0	12,073.2	= 460.0	20.6	= 98.0	39.3
SCRE-R005	9/11/2020	-	Dry	n/a	n/a	= 35,000.0	13,036.3	= 460.0	22.1	= 98.0	40.9
SCRE-R005	9/12/2020	-	Dry	n/a	n/a	= 35,000.0	14,076.3	= 460.0	23.9	= 98.0	42.5
SCRE-R005	9/13/2020	-	Dry	n/a	n/a	= 35,000.0	15,199.2	= 460.0	25.7	= 98.0	44.2
SCRE-R005	9/14/2020	-	Dry	n/a	n/a	= 35,000.0	16,411.7	= 460.0	27.7	= 98.0	46.0
SCRE-R005	9/15/2020	◆ 11:00	Dry	n/a	n/a	= 24,000.0	17,499.5	= 1,100.0	30.7	= 648.8	51.0
SCRE-R005	9/16/2020	-	Dry	n/a	n/a	= 24,000.0	18,659.4	= 1,100.0	34.1	= 648.8	56.5
SCRE-R005	9/17/2020	-	Dry	n/a	n/a	= 24,000.0	18,659.4	= 1,100.0	38.6	= 648.8	61.0
SCRE-R005	9/18/2020	-	Dry	n/a	n/a	= 24,000.0	18,659.4	= 1,100.0	43.8	= 648.8	66.0
SCRE-R005	9/19/2020	-	Dry	n/a	n/a	= 24,000.0	18,659.4	= 1,100.0	49.6	= 648.8	71.3
SCRE-R005	9/20/2020	-	Dry	n/a	n/a	= 24,000.0	18,659.4	= 1,100.0	56.2	= 648.8	77.1
SCRE-R005	9/21/2020	-	Dry	n/a	n/a	= 24,000.0	18,659.4	= 1,100.0	63.6	= 648.8	83.3
SCRE-R005	9/22/2020	◆ 7:30	Dry	n/a	n/a	= 9,400.0	18,085.4	= 1,300.0	72.5	= 789.0	90.6
SCRE-R005	9/23/2020	-	Dry	n/a	n/a	= 9,400.0	17,529.0	= 1,300.0	82.6	= 789.0	98.6
SCRE-R005	9/24/2020	-	Dry	n/a	n/a	= 9,400.0	17,186.2	= 1,300.0	97.4	= 789.0	108.8
SCRE-R005	9/25/2020	-	Dry	n/a	n/a	= 9,400.0	16,850.1	= 1,300.0	114.8	= 789.0	120.1
SCRE-R005	9/26/2020	-	Dry	n/a	n/a	= 9,400.0	16,520.6	= 1,300.0	135.4	= 789.0	132.5
SCRE-R005	9/27/2020	-	Dry	n/a	n/a	= 9,400.0	16,197.5	= 1,300.0	159.6	= 789.0	146.2
SCRE-R005	9/28/2020	-	Dry	n/a	n/a	= 9,400.0	15,880.8	= 1,300.0	188.2	= 789.0	161.4
SCRE-R005	9/29/2020	◆ 9:10	Dry	n/a	n/a	= 11,000.0	15,652.0	= 31.0	195.9	= 20.0	157.6
SCRE-R005	9/30/2020	-	Dry	n/a	n/a	= 11,000.0	15,426.5	= 31.0	203.9	= 20.0	153.8
SCRE-R005	10/1/2020	-	Dry	n/a	n/a	= 11,000.0	15,597.7	= 31.0	217.4	= 20.0	153.8
SCRE-R005	10/2/2020	-	Dry	n/a	n/a	= 11,000.0	15,770.7	= 31.0	231.9	= 20.0	153.8
SCRE-R005	10/3/2020	-	Dry	n/a	n/a	= 11,000.0	15,945.7	= 31.0	247.3	= 20.0	153.8
SCRE-R005	10/4/2020	-	Dry	n/a	n/a	= 11,000.0	16,122.6	= 31.0	263.7	= 20.0	153.8
SCRE-R005	10/5/2020	-	Dry	n/a	n/a	= 11,000.0	16,301.5	= 31.0	281.2	= 20.0	153.8
SCRE-R005	10/6/2020	◆ 7:56	Dry	n/a	n/a	= 7,000.0	16,235.9	= 70.0	308.2	= 41.0	157.6
SCRE-R005	10/7/2020	-	Dry	n/a	n/a	= 7,000.0	16,170.6	= 70.0	337.7	= 41.0	161.4
SCRE-R005	10/8/2020	-	Dry	n/a	n/a	= 7,000.0	15,326.0	= 70.0	317.2	= 41.0	156.8
SCRE-R005	10/9/2020	-	Dry	n/a	n/a	= 7,000.0	14,525.4	= 70.0	297.9	= 41.0	152.3
SCRE-R005	10/10/2020	-	Dry	n/a	n/a	= 7,000.0	13,766.7	= 70.0	279.8	= 41.0	147.9
SCRE-R005	10/11/2020	-	Dry	n/a	n/a	= 7,000.0	13,047.6	= 70.0	262.7	= 41.0	143.7
SCRE-R005	10/12/2020	-	Dry	n/a	n/a	= 7,000.0	12,366.1	= 70.0	246.8	= 41.0	139.6
SCRE-R005	10/13/2020	◆ 7:45	Dry	n/a	n/a	= 2,200.0	11,276.6	= 33.0	226.0	= 41.0	135.6
SCRE-R005	10/14/2020	-	Dry	n/a	n/a	= 2,200.0	10,283.0	= 33.0	207.0	= 41.0	131.7
SCRE-R005	10/15/2020	-	Dry	n/a	n/a	= 2,200.0	9,495.7	= 33.0	184.2	= 41.0	120.1
SCRE-R005	10/16/2020	-	Dry	n/a	n/a	= 2,200.0	8,768.7	= 33.0	163.9	= 41.0	109.5
SCRE-R005	10/17/2020	-	Dry	n/a	n/a	= 2,200.0	8,097.4	= 33.0	145.8	= 41.0	99.9
SCRE-R005	10/18/2020	-	Dry	n/a	n/a	= 2,200.0	7,477.4	= 33.0	129.7	= 41.0	91.1
SCRE-R005	10/19/2020	-	Dry	n/a	n/a	= 2,200.0	6,904.9	= 33.0	115.4	= 41.0	83.1
SCRE-R005	10/20/2020	◆ 13:00	Dry	n/a	n/a	= 2,200.0	6,376.2	= 49.0	104.0	= 10.0	72.3
SCRE-R005	10/21/2020	-	Dry	n/a	n/a	= 2,200.0	5,888.0	= 49.0	93.8	= 10.0	62.9

**Table 2.**  
**Geomean Data for Weekly Sampling Results for Santa Clara River Reach 3 (SCRR3-RW1) and Estuary (SCRE-R005)**

Location	Date	Time	Rain	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean	=	Single Sample	30-Day Geomean
				E.coli (MPN/100mL)			Total Coliform (MPN/100mL)			Fecal Coliform (MPN/100mL)			Enterococcus (MPN/100mL)	
				(235)	(126)		(10,000)	(1,000)		(400)	(200)		(104)	(35)
SCRE-R005	10/22/2020	-	Dry	n/a	n/a	=	2,200.0	5,609.8	=	49.0	84.1	=	10.0	54.4
SCRE-R005	10/23/2020	-	Dry	n/a	n/a	=	2,200.0	5,344.7	=	49.0	75.4	=	10.0	47.0
SCRE-R005	10/24/2020	-	Dry	n/a	n/a	=	2,200.0	5,092.1	=	49.0	67.6	=	10.0	40.7
SCRE-R005	10/25/2020	-	Dry	n/a	n/a	=	2,200.0	4,851.5	=	49.0	60.6	=	10.0	35.1
SCRE-R005	10/26/2020	-	Dry	n/a	n/a	=	2,200.0	4,622.3	=	49.0	54.3	=	10.0	30.4
SCRE-R005	10/27/2020	◆ 9:05	Dry	n/a	n/a	=	350.0	4,142.1	=	130.0	50.3	=	10.0	26.3
SCRE-R005	10/28/2020	-	Dry	n/a	n/a	=	350.0	3,711.8	=	130.0	46.6	=	10.0	22.7
SCRE-R005	10/29/2020	-	Dry	n/a	n/a	=	350.0	3,308.8	=	130.0	48.9	=	10.0	22.2
SCRE-R005	10/30/2020	-	Dry	n/a	n/a	=	350.0	2,949.6	=	130.0	51.2	=	10.0	21.7
SCRE-R005	10/31/2020	-	Dry	n/a	n/a	=	350.0	2,629.4	=	130.0	53.8	=	10.0	21.2
SCRE-R005	11/1/2020	-	Dry	n/a	n/a	=	350.0	2,343.9	=	130.0	56.4	=	10.0	20.7
SCRE-R005	11/2/2020	-	Dry	n/a	n/a	=	350.0	2,089.4	=	130.0	59.1	=	10.0	20.2

Notes:

◆ Date of Sampling

Weeks with alternating wet weather samples (collected 72 hours after a day with >0.1" rainfall) and dry weather samples, previous 30 days of either wet weather samples or dry weather samples were used to calculate daily geomean.

Rain gages H245 – Wilson Ranch and H066 – Ventura City Hall are referenced to determine wet and dry days for Reach 3 and the Estuary, respectively. Data can be found at <http://www.vcwatershed.net/fws/gmap.html>.

To meet the prescribed dry weather geometric mean frequency, statistics are calculated for dry events by assigning a concentration value of 0.01 colony-forming unit (CFU) (rather than 0.0 CFU) when the site is not flowing. A zero value is undefined logarithmically, and as such would be unusable in the geometric mean calculation.

MPN/100mL: most probable number per 100 millileter

E.coli: Escherichia coli

n/a: not applicable to site

>: greater than

<: less than

=: equal to