



*Ventura Countywide
Stormwater Quality
Management Program*

2014-2015
Permit Year

Ventura Countywide Stormwater Quality
Management Program Annual Report

Attachment E11

Malibu Creek and Lagoon Bacteria TMDL
Compliance Monitoring for Ventura
County and City of Thousand Oaks



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

Ventura County Watershed Protection District

December 14, 2015

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

January 20, 2015

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
(213) 576-6780

Watershed Protection District
Tully K. Clifford, Director

Transportation Department
David L. Fleisch, Director

Engineering Services Department
Herbert L. Schwind, Director

Water & Sanitation Department
David J. Sasek, Director

Central Services Department
Janice E. Turner, Director

**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL (TMDL) Compliance Monitoring Plan (CMP) for the month of December 2014. Sites were sampled weekly on Tuesdays (December 9, 16 and 30), except for one instance when sites were sampled on Wednesday (December 3) due to staffing conflicts. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

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 Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles (via email)



Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample (as sampled)	
					E. coli (235 MPN)
MCW-8b	-	12/3/2014♦	Rain		Dry
MCW-8b	-	12/9/2014♦			Dry
MCW-8b	-	12/16/2014♦	Rain		Dry
MCW-8b	-	12/23/2014♦			Dry
MCW-8b	-	12/30/2014♦			Dry
MCW-9	-	12/3/2014♦	Rain		Dry
MCW-9	-	12/9/2014♦			Dry
MCW-9	-	12/16/2014♦	Rain		Dry
MCW-9	-	12/23/2014♦			Dry
MCW-9	-	12/30/2014♦			Dry
MCW-12	1220	12/3/2014♦	Rain	=	5,000
MCW-12	1120	12/9/2014♦		<	20
MCW-12	1120	12/16/2014♦	Rain	=	2,400
MCW-12	1125	12/23/2014♦		=	500
MCW-12	1120	12/30/2014♦		=	20
MCW-14b	1145	12/3/2014♦	Rain	=	5,000
MCW-14b	1045	12/9/2014♦		<	20
MCW-14b	1050	12/16/2014♦	Rain	=	3,000
MCW-14b	1040	12/23/2014♦		<	20
MCW-14b	1020	12/30/2014♦		=	40
MCW-15c	1110	12/3/2014♦	Rain	=	800
MCW-15c	1000	12/9/2014♦		=	80
MCW-15c	1110	12/16/2014♦	Rain	=	130
MCW-15c	945	12/23/2014♦		=	40
MCW-15c	940	12/30/2014♦		=	80
MCW-17	1030	12/3/2014♦	Rain	=	9,000
MCW-17	-	12/9/2014♦			Dry
MCW-17	-	12/16/2014♦	Rain		Dry
MCW-17	-	12/23/2014♦			Dry
MCW-17	-	12/30/2014♦			Dry
MCW-18	930	12/3/2014♦	Rain	≥	16,000
MCW-18	-	12/9/2014♦			Dry
MCW-18	940	12/16/2014♦	Rain	≥	16,000
MCW-18	-	12/23/2014♦			Dry
MCW-18	-	12/30/2014♦			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

Mr. Kangshi Wang

January 20, 2015

Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		
				E. coli (235 MPN)	Geomean E. coli (126 MPN)	
MCW-8b	-	12/1/2014	Dry	<	10	10
MCW-8b	-	12/2/2014	Dry	<	10	10
MCW-8b	-	12/3/2014◆	Dry		**Rain**	**Rain**
MCW-8b	-	12/4/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/5/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/6/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/7/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/8/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/09/2014◆	Dry	<	10	10
MCW-8b	-	12/10/2014	Dry	<	10	10
MCW-8b	-	12/11/2014	Dry	<	10	10
MCW-8b	-	12/12/2014	Dry	<	10	10
MCW-8b	-	12/13/2014	Dry	<	10	10
MCW-8b	-	12/14/2014	Dry	<	10	10
MCW-8b	-	12/15/2014	Dry	<	10	10
MCW-8b	-	12/16/2014◆	Dry		**Rain**	**Rain**
MCW-8b	-	12/17/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/18/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/19/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/20/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/21/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/22/2014	Dry		**Rain**	**Rain**
MCW-8b	-	12/23/2014◆	Dry	<	10	10
MCW-8b	-	12/24/2014	Dry	<	10	10
MCW-8b	-	12/25/2014	Dry	<	10	10
MCW-8b	-	12/26/2014	Dry	<	10	10
MCW-8b	-	12/27/2014	Dry	<	10	10
MCW-8b	-	12/28/2014	Dry	<	10	10
MCW-8b	-	12/29/2014	Dry	<	10	10
MCW-8b	-	12/30/2014◆	Dry	<	10	10
MCW-8b	-	12/31/2014	Dry	<	10	10
MCW-9	-	12/1/2014	Dry	<	10	10
MCW-9	-	12/2/2014	Dry	<	10	10
MCW-9	-	12/3/2014◆	Dry		**Rain**	**Rain**
MCW-9	-	12/4/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/5/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/6/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/7/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/8/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/09/2014◆	Dry	<	10	10
MCW-9	-	12/10/2014	Dry	<	10	10
MCW-9	-	12/11/2014	Dry	<	10	10

Mr. Kangshi Wang

January 20, 2015

Page 4 of 7

MCW-9	-	12/12/2014	Dry	<	10	10
MCW-9	-	12/13/2014	Dry	<	10	10
MCW-9	-	12/14/2014	Dry	<	10	10
MCW-9	-	12/15/2014	Dry	<	10	10
MCW-9	-	12/16/2014♦	Dry		**Rain**	**Rain**
MCW-9	-	12/17/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/18/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/19/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/20/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/21/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/22/2014	Dry		**Rain**	**Rain**
MCW-9	-	12/23/2014♦	Dry	<	10	10
MCW-9	-	12/24/2014	Dry	<	10	10
MCW-9	-	12/25/2014	Dry	<	10	10
MCW-9	-	12/26/2014	Dry	<	10	10
MCW-9	-	12/27/2014	Dry	<	10	10
MCW-9	-	12/28/2014	Dry	<	10	10
MCW-9	-	12/29/2014	Dry	<	10	10
MCW-9	-	12/30/2014♦	Dry	<	10	10
MCW-9	-	12/31/2014	Dry	<	10	10
MCW-12	-	12/1/2014	Dry	<	10	10
MCW-12	-	12/2/2014	Dry	<	10	10
MCW-12	1220	12/3/2014♦	Rain		**Rain**	**Rain**
MCW-12	1220	12/4/2014	Rain		**Rain**	**Rain**
MCW-12	1220	12/5/2014	Rain		**Rain**	**Rain**
MCW-12	1220	12/6/2014	Rain		**Rain**	**Rain**
MCW-12	1220	12/7/2014	Rain		**Rain**	**Rain**
MCW-12	1220	12/8/2014	Rain		**Rain**	**Rain**
MCW-12	1120	12/09/2014♦		<	10	10
MCW-12	1120	12/10/2014		<	10	10
MCW-12	1120	12/11/2014		<	10	10
MCW-12	1120	12/12/2014		<	10	10
MCW-12	1120	12/13/2014		<	10	10
MCW-12	1120	12/14/2014		<	10	10
MCW-12	1120	12/15/2014		<	10	10
MCW-12	1120	12/16/2014♦	Rain		**Rain**	**Rain**
MCW-12	1120	12/17/2014	Rain		**Rain**	**Rain**
MCW-12	1120	12/18/2014	Rain		**Rain**	**Rain**
MCW-12	1120	12/19/2014	Rain		**Rain**	**Rain**
MCW-12	1120	12/20/2014	Rain		**Rain**	**Rain**
MCW-12	1120	12/21/2014	Rain		**Rain**	**Rain**
MCW-12	1120	12/22/2014	Rain		**Rain**	**Rain**
MCW-12	1125	12/23/2014♦		=	500	11
MCW-12	1125	12/24/2014		=	500	13
MCW-12	1125	12/25/2014		=	500	15
MCW-12	1125	12/26/2014		=	500	17
MCW-12	1125	12/27/2014		=	500	19
MCW-12	1125	12/28/2014		=	500	22
MCW-12	1125	12/29/2014		=	500	25

Mr. Kangshi Wang

January 20, 2015

Page 5 of 7

MCW-12	1120	12/30/2014◆		=	20	25
MCW-12	1120	12/31/2014		=	20	26
MCW-14b	1020	12/1/2014		=	40	79
MCW-14b	1020	12/2/2014		=	40	76
MCW-14b	1145	12/3/2014◆	Rain		**Rain**	**Rain**
MCW-14b	1145	12/4/2014	Rain		**Rain**	**Rain**
MCW-14b	1145	12/5/2014	Rain		**Rain**	**Rain**
MCW-14b	1145	12/6/2014	Rain		**Rain**	**Rain**
MCW-14b	1145	12/7/2014	Rain		**Rain**	**Rain**
MCW-14b	1145	12/8/2014	Rain		**Rain**	**Rain**
MCW-14b	1045	12/09/2014◆		<	10	70
MCW-14b	1045	12/10/2014		<	10	68
MCW-14b	1045	12/11/2014		<	10	67
MCW-14b	1045	12/12/2014		<	10	65
MCW-14b	1045	12/13/2014		<	10	64
MCW-14b	1045	12/14/2014		<	10	62
MCW-14b	1045	12/15/2014		<	10	61
MCW-14b	1050	12/16/2014◆	Rain		**Rain**	**Rain**
MCW-14b	1050	12/17/2014	Rain		**Rain**	**Rain**
MCW-14b	1050	12/18/2014	Rain		**Rain**	**Rain**
MCW-14b	1050	12/19/2014	Rain		**Rain**	**Rain**
MCW-14b	1050	12/20/2014	Rain		**Rain**	**Rain**
MCW-14b	1050	12/21/2014	Rain		**Rain**	**Rain**
MCW-14b	1050	12/22/2014	Rain		**Rain**	**Rain**
MCW-14b	1040	12/23/2014◆		<	10	55
MCW-14b	1040	12/24/2014		<	10	49
MCW-14b	1040	12/25/2014		<	10	44
MCW-14b	1040	12/26/2014		<	10	40
MCW-14b	1040	12/27/2014		<	10	36
MCW-14b	1040	12/28/2014		<	10	32
MCW-14b	1040	12/29/2014		<	10	29
MCW-14b	1020	12/30/2014◆		<	10	26
MCW-14b	1020	12/31/2014		<	10	24
MCW-15c	940	12/1/2014		=	50	105
MCW-15c	940	12/2/2014		=	50	101
MCW-15c	1110	12/3/2014◆	Rain		**Rain**	**Rain**
MCW-15c	1110	12/4/2014	Rain		**Rain**	**Rain**
MCW-15c	1110	12/5/2014	Rain		**Rain**	**Rain**
MCW-15c	1110	12/6/2014	Rain		**Rain**	**Rain**
MCW-15c	1110	12/7/2014	Rain		**Rain**	**Rain**
MCW-15c	1110	12/8/2014	Rain		**Rain**	**Rain**
MCW-15c	1000	12/09/2014◆		=	80	100
MCW-15c	1000	12/10/2014		=	80	99
MCW-15c	1000	12/11/2014		=	80	98
MCW-15c	1000	12/12/2014		=	80	97
MCW-15c	1000	12/13/2014		=	80	96
MCW-15c	1000	12/14/2014		=	80	95
MCW-15c	1000	12/15/2014		=	80	94
MCW-15c	1000	12/16/2014◆	Rain		**Rain**	**Rain**

Mr. Kangshi Wang

January 20, 2015

Page 6 of 7

MCW-15c	1000	12/17/2014	Rain		**Rain**	**Rain**
MCW-15c	1000	12/18/2014	Rain		**Rain**	**Rain**
MCW-15c	1000	12/19/2014	Rain		**Rain**	**Rain**
MCW-15c	1000	12/20/2014	Rain		**Rain**	**Rain**
MCW-15c	1000	12/21/2014	Rain		**Rain**	**Rain**
MCW-15c	1000	12/22/2014	Rain		**Rain**	**Rain**
MCW-15c	945	12/23/2014◆		=	40	88
MCW-15c	945	12/24/2014		=	40	83
MCW-15c	945	12/25/2014		=	40	79
MCW-15c	945	12/26/2014		=	40	74
MCW-15c	945	12/27/2014		=	40	70
MCW-15c	945	12/28/2014		=	40	66
MCW-15c	945	12/29/2014		=	40	62
MCW-15c	940	12/30/2014◆		=	80	60
MCW-15c	940	12/31/2014		=	80	60
MCW-17	-	12/1/2014	Dry	<	10	10
MCW-17	-	12/2/2014	Dry	<	10	10
MCW-17	1030	12/3/2014◆	Rain		**Rain**	**Rain**
MCW-17	1030	12/4/2014	Rain		**Rain**	**Rain**
MCW-17	1030	12/5/2014	Rain		**Rain**	**Rain**
MCW-17	1030	12/6/2014	Rain		**Rain**	**Rain**
MCW-17	1030	12/7/2014	Rain		**Rain**	**Rain**
MCW-17	1030	12/8/2014	Rain		**Rain**	**Rain**
MCW-17	-	12/09/2014◆	Rain	<	10	10
MCW-17	-	12/10/2014	Dry	<	10	10
MCW-17	-	12/11/2014	Dry	<	10	10
MCW-17	-	12/12/2014	Dry	<	10	10
MCW-17	-	12/13/2014	Dry	<	10	10
MCW-17	-	12/14/2014	Dry	<	10	10
MCW-17	-	12/15/2014	Dry	<	10	10
MCW-17	-	12/16/2014◆	Dry		**Rain**	**Rain**
MCW-17	-	12/17/2014	Dry		**Rain**	**Rain**
MCW-17	-	12/18/2014	Dry		**Rain**	**Rain**
MCW-17	-	12/19/2014	Dry		**Rain**	**Rain**
MCW-17	-	12/20/2014	Dry		**Rain**	**Rain**
MCW-17	-	12/21/2014	Dry		**Rain**	**Rain**
MCW-17	-	12/22/2014	Dry		**Rain**	**Rain**
MCW-17	-	12/23/2014◆	Dry	<	10	10
MCW-17	-	12/24/2014	Dry	<	10	10
MCW-17	-	12/25/2014	Dry	<	10	10
MCW-17	-	12/26/2014	Dry	<	10	10
MCW-17	-	12/27/2014	Dry	<	10	10
MCW-17	-	12/28/2014	Dry	<	10	10
MCW-17	-	12/29/2014	Dry	<	10	10
MCW-17	-	12/30/2014◆	Dry	<	10	10
MCW-17	-	12/31/2014	Dry	<	10	10
MCW-18	-	12/1/2014	Dry	<	10	10
MCW-18	-	12/2/2014	Dry	<	10	10

Mr. Kangshi Wang

January 20, 2015

Page 7 of 7

MCW-18	930	12/3/2014♦	Rain		**Rain**	**Rain**
MCW-18	930	12/4/2014	Rain		**Rain**	**Rain**
MCW-18	930	12/5/2014	Rain		**Rain**	**Rain**
MCW-18	930	12/6/2014	Rain		**Rain**	**Rain**
MCW-18	930	12/7/2014	Rain		**Rain**	**Rain**
MCW-18	930	12/8/2014	Rain		**Rain**	**Rain**
MCW-18	-	12/09/2014♦	Dry	<	10	10
MCW-18	-	12/10/2014	Dry	<	10	10
MCW-18	-	12/11/2014	Dry	<	10	10
MCW-18	-	12/12/2014	Dry	<	10	10
MCW-18	-	12/13/2014	Dry	<	10	10
MCW-18	-	12/14/2014	Dry	<	10	10
MCW-18	-	12/15/2014	Dry	<	10	10
MCW-18	940	12/16/2014♦	Rain		**Rain**	**Rain**
MCW-18	940	12/17/2014	Rain		**Rain**	**Rain**
MCW-18	940	12/18/2014	Rain		**Rain**	**Rain**
MCW-18	940	12/19/2014	Rain		**Rain**	**Rain**
MCW-18	940	12/20/2014	Rain		**Rain**	**Rain**
MCW-18	940	12/21/2014	Rain		**Rain**	**Rain**
MCW-18	940	12/22/2014	Rain		**Rain**	**Rain**
MCW-18	-	12/23/2014♦	Dry	<	10	10
MCW-18	-	12/24/2014	Dry	<	10	10
MCW-18	-	12/25/2014	Dry	<	10	10
MCW-18	-	12/26/2014	Dry	<	10	10
MCW-18	-	12/27/2014	Dry	<	10	10
MCW-18	-	12/28/2014	Dry	<	10	10
MCW-18	-	12/29/2014	Dry	<	10	10
MCW-18	-	12/30/2014♦	Dry	<	10	10
MCW-18	-	12/31/2014	Dry	<	10	10

Notes:

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 geomean. Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦ Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

February 17, 2015

Kangshi Wang, Ph.D.
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**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL (TMDL) Compliance Monitoring Plan (CMP) for the month of January 2015. Sites were sampled weekly on Tuesdays (January 6, 13, 20 and 27). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

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If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles (via email)



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MCW-8b	-	1/13/2015 ♦			Dry
MCW-8b	-	1/20/2015 ♦			Dry
MCW-8b	-	1/27/2015 ♦			Dry
MCW-9	-	1/6/2015 ♦			Dry
MCW-9	-	1/13/2015 ♦			Dry
MCW-9	-	1/20/2015 ♦			Dry
MCW-9	-	1/27/2015 ♦			Dry
MCW-12	1140	1/6/2015 ♦		=	700
MCW-12	1115	1/13/2015 ♦	Rain	=	1,700
MCW-12	1120	1/20/2015 ♦		=	230
MCW-12	1120	1/27/2015 ♦	Rain	<	20
MCW-14b	1115	1/6/2015 ♦		=	20
MCW-14b	1050	1/13/2015 ♦	Rain	=	1,100
MCW-14b	1050	1/20/2015 ♦		=	700
MCW-14b	1045	1/27/2015 ♦	Rain	=	70
MCW-15c	1020	1/6/2015 ♦		<	20
MCW-15c	1015	1/13/2015 ♦	Rain	=	170
MCW-15c	1015	1/20/2015 ♦		=	170
MCW-15c	1010	1/27/2015 ♦	Rain	<	20
MCW-17	-	1/6/2015 ♦			Dry
MCW-17	-	1/13/2015 ♦			Dry
MCW-17	-	1/20/2015 ♦			Dry
MCW-17	-	1/27/2015 ♦			Dry
MCW-18	-	1/6/2015 ♦			Dry
MCW-18	-	1/13/2015 ♦			Dry
MCW-18	-	1/20/2015 ♦			Dry
MCW-18	-	1/27/2015 ♦			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



Mr. Kangshi Wang
 February 17, 2015
 Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geomean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-8b	-	1/1/2015	Dry	<	10	10
MCW-8b	-	1/2/2015	Dry	<	10	10
MCW-8b	-	1/3/2015	Dry	<	10	10
MCW-8b	-	1/4/2015	Dry	<	10	10
MCW-8b	-	1/5/2015	Dry	<	10	10
MCW-8b	-	1/6/2015 ♦	Dry	<	10	10
MCW-8b	-	1/7/2015	Dry	<	10	10
MCW-8b	-	1/8/2015	Dry	<	10	10
MCW-8b	-	1/9/2015	Dry	<	10	10
MCW-8b	-	1/10/2015	Dry	<	10	10
MCW-8b	-	1/11/2015	Dry	<	10	10
MCW-8b	-	1/12/2015	Dry	<	10	10
MCW-8b	-	1/13/2015 ♦	Dry		**Rain**	**Rain**
MCW-8b	-	1/14/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/15/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/16/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/17/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/18/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/19/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/20/2015 ♦	Dry	<	10	10
MCW-8b	-	1/21/2015	Dry	<	10	10
MCW-8b	-	1/22/2015	Dry	<	10	10
MCW-8b	-	1/23/2015	Dry	<	10	10
MCW-8b	-	1/24/2015	Dry	<	10	10
MCW-8b	-	1/25/2015	Dry	<	10	10
MCW-8b	-	1/26/2015	Dry	<	10	10
MCW-8b	-	1/27/2014 ♦	Dry		**Rain**	**Rain**
MCW-8b	-	1/28/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/29/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/30/2015	Dry		**Rain**	**Rain**
MCW-8b	-	1/31/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/1/2015	Dry	<	10	10
MCW-9	-	1/2/2015	Dry	<	10	10
MCW-9	-	1/3/2015	Dry	<	10	10
MCW-9	-	1/4/2015	Dry	<	10	10
MCW-9	-	1/5/2015	Dry	<	10	10
MCW-9	-	1/6/2015 ♦	Dry	<	10	10
MCW-9	-	1/7/2015	Dry	<	10	10
MCW-9	-	1/8/2015	Dry	<	10	10
MCW-9	-	1/9/2015	Dry	<	10	10
MCW-9	-	1/10/2015	Dry	<	10	10
MCW-9	-	1/11/2015	Dry	<	10	10



Mr. Kangshi Wang
 February 17, 2015
 Page 4 of 7

MCW-9	-	1/12/2015	Dry	<	10	10
MCW-9	-	1/13/2015 ♦	Dry		**Rain**	**Rain**
MCW-9	-	1/14/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/15/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/16/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/17/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/18/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/19/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/20/2015 ♦	Dry	<	10	10
MCW-9	-	1/21/2015	Dry	<	10	10
MCW-9	-	1/22/2015	Dry	<	10	10
MCW-9	-	1/23/2015	Dry	<	10	10
MCW-9	-	1/24/2015	Dry	<	10	10
MCW-9	-	1/25/2015	Dry	<	10	10
MCW-9	-	1/26/2015	Dry	<	10	10
MCW-9	-	1/27/2014 ♦	Dry		**Rain**	**Rain**
MCW-9	-	1/28/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/29/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/30/2015	Dry		**Rain**	**Rain**
MCW-9	-	1/31/2015	Dry		**Rain**	**Rain**
MCW-12	1120	1/1/2015		=	20	27
MCW-12	1120	1/2/2015		=	20	27
MCW-12	1120	1/3/2015		=	20	28
MCW-12	1120	1/4/2015		=	20	29
MCW-12	1120	1/5/2015		=	20	29
MCW-12	1140	1/6/2015 ♦		=	700	34
MCW-12	1140	1/7/2015		=	700	39
MCW-12	1140	1/8/2015		=	700	45
MCW-12	1140	1/9/2015		=	700	52
MCW-12	1140	1/10/2015		=	700	59
MCW-12	1140	1/11/2015		=	700	68
MCW-12	1140	1/12/2015		=	700	79
MCW-12	1115	1/13/2015 ♦	Rain	=	**Rain**	**Rain**
MCW-12	1115	1/14/2015	Rain	=	**Rain**	**Rain**
MCW-12	1115	1/15/2015	Rain	=	**Rain**	**Rain**
MCW-12	1115	1/16/2015	Rain	=	**Rain**	**Rain**
MCW-12	1115	1/17/2015	Rain	=	**Rain**	**Rain**
MCW-12	1115	1/18/2015	Rain	=	**Rain**	**Rain**
MCW-12	1115	1/19/2015	Rain	=	**Rain**	**Rain**
MCW-12	1120	1/20/2015 ♦		=	230	88
MCW-12	1120	1/21/2015		=	230	97
MCW-12	1120	1/22/2015		=	230	108
MCW-12	1120	1/23/2015		=	230	120
MCW-12	1120	1/24/2015		=	230	133
MCW-12	1120	1/25/2015		=	230	148
MCW-12	1120	1/26/2015		=	230	164
MCW-12	1120	1/27/2014 ♦	Rain		**Rain**	**Rain**
MCW-12	1120	1/28/2015	Rain		**Rain**	**Rain**
MCW-12	1120	1/29/2015	Rain		**Rain**	**Rain**



Mr. Kangshi Wang

February 17, 2015

Page 5 of 7

MCW-12	1120	1/30/2015	Rain		**Rain**	**Rain**
MCW-12	1120	1/31/2015	Rain		**Rain**	**Rain**
MCW-14b	1020	1/1/2015		=	40	25
MCW-14b	1020	1/2/2015		=	40	25
MCW-14b	1020	1/3/2015		=	40	24
MCW-14b	1020	1/4/2015		=	40	23
MCW-14b	1020	1/5/2015		=	40	22
MCW-14b	1115	1/6/2015 ♦		=	20	20
MCW-14b	1115	1/7/2015		=	20	20
MCW-14b	1115	1/8/2015		=	20	20
MCW-14b	1115	1/9/2015		=	20	19
MCW-14b	1115	1/10/2015		=	20	19
MCW-14b	1115	1/11/2015		=	20	18
MCW-14b	1115	1/12/2015		=	20	18
MCW-14b	1050	1/13/2015 ♦	Rain		**Rain**	**Rain**
MCW-14b	1050	1/14/2015	Rain		**Rain**	**Rain**
MCW-14b	1050	1/15/2015	Rain		**Rain**	**Rain**
MCW-14b	1050	1/16/2015	Rain		**Rain**	**Rain**
MCW-14b	1050	1/17/2015	Rain		**Rain**	**Rain**
MCW-14b	1050	1/18/2015	Rain		**Rain**	**Rain**
MCW-14b	1050	1/19/2015	Rain		**Rain**	**Rain**
MCW-14b	1050	1/20/2015 ♦		=	700	20
MCW-14b	1050	1/21/2015		=	700	22
MCW-14b	1050	1/22/2015		=	700	25
MCW-14b	1050	1/23/2015		=	700	29
MCW-14b	1050	1/24/2015		=	700	33
MCW-14b	1050	1/25/2015		=	700	38
MCW-14b	1050	1/26/2015		=	700	44
MCW-14b	1045	1/27/2014 ♦	Rain		**Rain**	**Rain**
MCW-14b	1045	1/28/2015	Rain		**Rain**	**Rain**
MCW-14b	1045	1/29/2015	Rain		**Rain**	**Rain**
MCW-14b	1045	1/30/2015	Rain		**Rain**	**Rain**
MCW-14b	1045	1/31/2015	Rain		**Rain**	**Rain**
MCW-15c	940	1/1/2015		=	80	60
MCW-15c	940	1/2/2015		=	80	60
MCW-15c	940	1/3/2015		=	80	60
MCW-15c	940	1/4/2015		=	80	60
MCW-15c	940	1/5/2015		=	80	60
MCW-15c	1020	1/6/2015 ♦		<	10	56
MCW-15c	1020	1/7/2015		<	10	53
MCW-15c	1020	1/8/2015		<	10	50
MCW-15c	1020	1/9/2015		<	10	48
MCW-15c	1020	1/10/2015		<	10	45
MCW-15c	1020	1/11/2015		<	10	43
MCW-15c	1020	1/12/2015		<	10	41
MCW-15c	1015	1/13/2015 ♦	Rain		**Rain**	**Rain**
MCW-15c	1015	1/14/2015	Rain		**Rain**	**Rain**
MCW-15c	1015	1/15/2015	Rain		**Rain**	**Rain**
MCW-15c	1015	1/16/2015	Rain		**Rain**	**Rain**



Mr. Kangshi Wang

February 17, 2015

Page 6 of 7

MCW-15c	1015	1/17/2015	Rain		**Rain**	**Rain**
MCW-15c	1015	1/18/2015	Rain		**Rain**	**Rain**
MCW-15c	1015	1/19/2015	Rain		**Rain**	**Rain**
MCW-15c	1015	1/20/2015 ♦		=	170	42
MCW-15c	1015	1/21/2015		=	170	44
MCW-15c	1015	1/22/2015		=	170	45
MCW-15c	1015	1/23/2015		=	170	46
MCW-15c	1015	1/24/2015		=	170	47
MCW-15c	1015	1/25/2015		=	170	49
MCW-15c	1015	1/26/2015		=	170	50
MCW-15c	1010	1/27/2014 ♦	Rain		**Rain**	**Rain**
MCW-15c	1010	1/28/2015	Rain		**Rain**	**Rain**
MCW-15c	1010	1/29/2015	Rain		**Rain**	**Rain**
MCW-15c	1010	1/30/2015	Rain		**Rain**	**Rain**
MCW-15c	1010	1/31/2015	Rain		**Rain**	**Rain**
MCW-17	-	1/1/2015	Dry	<	10	10
MCW-17	-	1/2/2015	Dry	<	10	10
MCW-17	-	1/3/2015	Dry	<	10	10
MCW-17	-	1/4/2015	Dry	<	10	10
MCW-17	-	1/5/2015	Dry	<	10	10
MCW-17	-	1/6/2015 ♦	Dry	<	10	10
MCW-17	-	1/7/2015	Dry	<	10	10
MCW-17	-	1/8/2015	Dry	<	10	10
MCW-17	-	1/9/2015	Dry	<	10	10
MCW-17	-	1/10/2015	Dry	<	10	10
MCW-17	-	1/11/2015	Dry	<	10	10
MCW-17	-	1/12/2015	Dry	<	10	10
MCW-17	-	1/13/2015 ♦	Dry		**Rain**	**Rain**
MCW-17	-	1/14/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/15/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/16/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/17/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/18/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/19/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/20/2015 ♦	Dry	<	10	10
MCW-17	-	1/21/2015	Dry	<	10	10
MCW-17	-	1/22/2015	Dry	<	10	10
MCW-17	-	1/23/2015	Dry	<	10	10
MCW-17	-	1/24/2015	Dry	<	10	10
MCW-17	-	1/25/2015	Dry	<	10	10
MCW-17	-	1/26/2015	Dry	<	10	10
MCW-17	-	1/27/2014 ♦	Dry		**Rain**	**Rain**
MCW-17	-	1/28/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/29/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/30/2015	Dry		**Rain**	**Rain**
MCW-17	-	1/31/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/1/2015	Dry	<	10	10
MCW-18	-	1/2/2015	Dry	<	10	10



Mr. Kangshi Wang

February 17, 2015

Page 7 of 7

MCW-18	-	1/3/2015	Dry	<	10	10
MCW-18	-	1/4/2015	Dry	<	10	10
MCW-18	-	1/5/2015	Dry	<	10	10
MCW-18	-	1/6/2015♦	Dry	<	10	10
MCW-18	-	1/7/2015	Dry	<	10	10
MCW-18	-	1/8/2015	Dry	<	10	10
MCW-18	-	1/9/2015	Dry	<	10	10
MCW-18	-	1/10/2015	Dry	<	10	10
MCW-18	-	1/11/2015	Dry	<	10	10
MCW-18	-	1/12/2015	Dry	<	10	10
MCW-18	-	1/13/2015♦	Dry		**Rain**	**Rain**
MCW-18	-	1/14/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/15/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/16/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/17/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/18/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/19/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/20/2015♦	Dry	<	10	10
MCW-18	-	1/21/2015	Dry	<	10	10
MCW-18	-	1/22/2015	Dry	<	10	10
MCW-18	-	1/23/2015	Dry	<	10	10
MCW-18	-	1/24/2015	Dry	<	10	10
MCW-18	-	1/25/2015	Dry	<	10	10
MCW-18	-	1/26/2015	Dry	<	10	10
MCW-18	-	1/27/2014♦	Dry		**Rain**	**Rain**
MCW-18	-	1/28/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/29/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/30/2015	Dry		**Rain**	**Rain**
MCW-18	-	1/31/2015	Dry		**Rain**	**Rain**

Notes:

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 geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦ Date of sampling



county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

March 19, 2015

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
(213) 576-6780

Watershed Protection District
Tully K. Clifford, Director
Transportation Department
David L. Fleisch, Director
Engineering Services Department
Herbert L. Schwind, Director
Water & Sanitation Department
David J. Sasek, Director
Central Services Department
Janice E. Turner, Director

**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

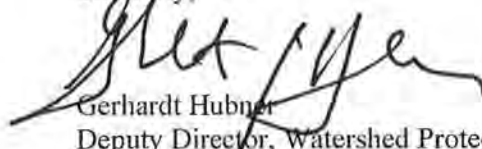
Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL (TMDL) Compliance Monitoring Plan (CMP) for the month of February 2015. Sites were sampled weekly on Tuesdays (February 3, 10, 17 and 24). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

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 Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles (via email)



Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample (as sampled)	
					E. coli (235 MPN)
MCW-8b	-	2/3/2015 ♦			Dry
MCW-8b	-	2/10/2015 ♦			Dry
MCW-8b	-	2/17/2015 ♦			Dry
MCW-8b	-	2/24/2015 ♦			Dry
MCW-9	-	2/3/2015 ♦			Dry
MCW-9	-	2/10/2015 ♦			Dry
MCW-9	-	2/17/2015 ♦			Dry
MCW-9	-	2/24/2015 ♦			Dry
MCW-12	1050	2/3/2015 ♦		=	230
MCW-12	1130	2/10/2015 ♦		=	230
MCW-12	1100	2/17/2015 ♦		=	230
MCW-12	1135	2/24/2015 ♦	Rain	=	300
MCW-14b	1020	2/3/2015 ♦		=	80
MCW-14b	1110	2/10/2015 ♦		=	30
MCW-14b	1030	2/17/2015 ♦		=	220
MCW-14b	1100	2/24/2015 ♦	Rain	=	500
MCW-15c	945	2/3/2015 ♦		=	300
MCW-15c	1040	2/10/2015 ♦		<	20
MCW-15c	1005	2/17/2015 ♦		=	3,000
MCW-15c	1025	2/24/2015 ♦	Rain	=	80
MCW-17	-	2/3/2015 ♦			Dry
MCW-17	-	2/10/2015 ♦			Dry
MCW-17	-	2/17/2015 ♦			Dry
MCW-17	-	2/24/2015 ♦			Dry
MCW-18	-	2/3/2015 ♦			Dry
MCW-18	-	2/10/2015 ♦			Dry
MCW-18	-	2/17/2015 ♦			Dry
MCW-18	-	2/24/2015 ♦			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



Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	
				E. coli (235 MPN)	Geomean E. coli (126 MPN)
MCW-8b	-	2/1/2015	Dry	< **Rain**	**Rain**
MCW-8b	-	2/2/2015	Dry	< **Rain**	**Rain**
MCW-8b	-	2/3/2015 ♦	Dry	< 10	10
MCW-8b	-	2/4/2015	Dry	< 10	10
MCW-8b	-	2/5/2015	Dry	< 10	10
MCW-8b	-	2/6/2015	Dry	< 10	10
MCW-8b	-	2/7/2015	Dry	< 10	10
MCW-8b	-	2/8/2015	Dry	< 10	10
MCW-8b	-	2/9/2015	Dry	< 10	10
MCW-8b	-	2/10/2015 ♦	Dry	< 10	10
MCW-8b	-	2/11/2015	Dry	< 10	10
MCW-8b	-	2/12/2015	Dry	< 10	10
MCW-8b	-	2/13/2015	Dry	< 10	10
MCW-8b	-	2/14/2015	Dry	< 10	10
MCW-8b	-	2/15/2015	Dry	< 10	10
MCW-8b	-	2/16/2015	Dry	< 10	10
MCW-8b	-	2/17/2015 ♦	Dry	< 10	10
MCW-8b	-	2/18/2015	Dry	< 10	10
MCW-8b	-	2/19/2015	Dry	< 10	10
MCW-8b	-	2/20/2015	Dry	< 10	10
MCW-8b	-	2/21/2015	Dry	< 10	10
MCW-8b	-	2/22/2015	Dry	< 10	10
MCW-8b	-	2/23/2015	Dry	< 10	10
MCW-8b	-	2/24/2015 ♦	Dry	< **Rain**	**Rain**
MCW-8b	-	2/25/2015	Dry	< **Rain**	**Rain**
MCW-8b	-	2/26/2015	Dry	< **Rain**	**Rain**
MCW-8b	-	2/27/2015	Dry	< **Rain**	**Rain**
MCW-8b	-	2/28/2015	Dry	< **Rain**	**Rain**
MCW-9	-	2/1/2015	Dry	< **Rain**	**Rain**
MCW-9	-	2/2/2015	Dry	< **Rain**	**Rain**
MCW-9	-	2/3/2015 ♦	Dry	< 10	10
MCW-9	-	2/4/2015	Dry	< 10	10
MCW-9	-	2/5/2015	Dry	< 10	10
MCW-9	-	2/6/2015	Dry	< 10	10
MCW-9	-	2/7/2015	Dry	< 10	10
MCW-9	-	2/8/2015	Dry	< 10	10
MCW-9	-	2/9/2015	Dry	< 10	10
MCW-9	-	2/10/2015 ♦	Dry	< 10	10
MCW-9	-	2/11/2015	Dry	< 10	10

MCW-9	-	2/12/2015	Dry	<	10	10
MCW-9	-	2/13/2015	Dry	<	10	10
MCW-9	-	2/14/2015	Dry	<	10	10
MCW-9	-	2/15/2015	Dry	<	10	10
MCW-9	-	2/16/2015	Dry	<	10	10
MCW-9	-	2/17/2015♦	Dry	<	10	10
MCW-9	-	2/18/2015	Dry	<	10	10
MCW-9	-	2/19/2015	Dry	<	10	10
MCW-9	-	2/20/2015	Dry	<	10	10
MCW-9	-	2/21/2015	Dry	<	10	10
MCW-9	-	2/22/2015	Dry	<	10	10
MCW-9	-	2/23/2015	Dry	<	10	10
MCW-9	-	2/24/2015♦	Dry		**Rain**	**Rain**
MCW-9	-	2/25/2015	Dry		**Rain**	**Rain**
MCW-9	-	2/26/2015	Dry		**Rain**	**Rain**
MCW-9	-	2/27/2015	Dry		**Rain**	**Rain**
MCW-9	-	2/28/2015	Dry		**Rain**	**Rain**
MCW-12	1120	2/1/2015			**Rain**	**Rain**
MCW-12	1120	2/2/2015			**Rain**	**Rain**
MCW-12	1120	2/3/2015♦		=	230	182
MCW-12	1120	2/4/2015		=	230	202
MCW-12	1120	2/5/2015		=	230	197
MCW-12	1140	2/6/2015		=	230	192
MCW-12	1140	2/7/2015		=	230	187
MCW-12	1140	2/8/2015		=	230	182
MCW-12	1140	2/9/2015		=	230	178
MCW-12	1140	2/10/2015♦		=	230	173
MCW-12	1140	2/11/2015		=	230	169
MCW-12	1140	2/12/2015		=	230	183
MCW-12	1115	2/13/2015		=	230	198
MCW-12	1115	2/14/2015		=	230	215
MCW-12	1115	2/15/2015		=	230	234
MCW-12	1115	2/16/2015		=	230	253
MCW-12	1115	2/17/2015♦		=	230	275
MCW-12	1115	2/18/2015		=	230	298
MCW-12	1115	2/19/2015		=	230	287
MCW-12	1120	2/20/2015		=	230	277
MCW-12	1120	2/21/2015		=	230	267
MCW-12	1120	2/22/2015		=	230	257
MCW-12	1120	2/23/2015		=	230	248
MCW-12	1120	2/24/2015♦	Rain		**Rain**	**Rain**
MCW-12	1120	2/25/2015	Rain		**Rain**	**Rain**
MCW-12	1120	2/26/2015	Rain		**Rain**	**Rain**
MCW-12	1120	2/27/2015	Rain		**Rain**	**Rain**
MCW-12	1120	2/28/2015	Rain		**Rain**	**Rain**



MCW-14b	1020	2/1/2015			**Rain**	**Rain**
MCW-14b	1020	2/2/2015			**Rain**	**Rain**
MCW-14b	1020	2/3/2015 ♦		=	80	47
MCW-14b	1020	2/4/2015		=	80	50
MCW-14b	1020	2/5/2015		=	80	54
MCW-14b	1115	2/6/2015		=	80	58
MCW-14b	1115	2/7/2015		=	80	62
MCW-14b	1115	2/8/2015		=	80	66
MCW-14b	1115	2/9/2015		=	80	71
MCW-14b	1115	2/10/2015 ♦		=	30	74
MCW-14b	1115	2/11/2015		=	30	77
MCW-14b	1115	2/12/2015		=	30	76
MCW-14b	1050	2/13/2015		=	30	75
MCW-14b	1050	2/14/2015		=	30	74
MCW-14b	1050	2/15/2015		=	30	74
MCW-14b	1050	2/16/2015		=	30	73
MCW-14b	1050	2/17/2015 ♦		=	220	77
MCW-14b	1050	2/18/2015		=	220	82
MCW-14b	1050	2/19/2015		=	220	89
MCW-14b	1050	2/20/2015		=	220	96
MCW-14b	1050	2/21/2015		=	220	104
MCW-14b	1050	2/22/2015		=	220	113
MCW-14b	1050	2/23/2015		=	220	122
MCW-14b	1050	2/24/2015 ♦	Rain		**Rain**	**Rain**
MCW-14b	1050	2/25/2015	Rain		**Rain**	**Rain**
MCW-14b	1050	2/26/2015	Rain		**Rain**	**Rain**
MCW-14b	1045	2/27/2015	Rain		**Rain**	**Rain**
MCW-14b	1045	2/28/2015	Rain		**Rain**	**Rain**
MCW-15c	940	2/1/2015			**Rain**	**Rain**
MCW-15c	940	2/2/2015			**Rain**	**Rain**
MCW-15c	940	2/3/2015 ♦		=	300	52
MCW-15c	940	2/4/2015		=	300	55
MCW-15c	940	2/5/2015		=	300	58
MCW-15c	1020	2/6/2015		=	300	62
MCW-15c	1020	2/7/2015		=	300	67
MCW-15c	1020	2/8/2015		=	300	71
MCW-15c	1020	2/9/2015		=	300	76
MCW-15c	1020	2/10/2015 ♦		<	10	73
MCW-15c	1020	2/11/2015		<	10	70
MCW-15c	1020	2/12/2015		<	10	65
MCW-15c	1015	2/13/2015		<	10	61
MCW-15c	1015	2/14/2015		<	10	57
MCW-15c	1015	2/15/2015		<	10	53
MCW-15c	1015	2/16/2015		<	10	49



MCW-15c	1015	2/17/2015 ♦		=	3,000	56
MCW-15c	1015	2/18/2015		=	3,000	63
MCW-15c	1015	2/19/2015		=	3,000	76
MCW-15c	1015	2/20/2015		=	3,000	92
MCW-15c	1015	2/21/2015		=	3,000	111
MCW-15c	1015	2/22/2015		=	3,000	134
MCW-15c	1015	2/23/2015		=	3,000	162
MCW-15c	1015	2/24/2015 ♦	Rain		**Rain**	**Rain**
MCW-15c	1015	2/25/2015	Rain		**Rain**	**Rain**
MCW-15c	1015	2/26/2015	Rain		**Rain**	**Rain**
MCW-15c	1010	2/27/2015	Rain		**Rain**	**Rain**
MCW-15c	1010	2/28/2015	Rain		**Rain**	**Rain**
MCW-17	-	2/1/2015	Dry	<	**Rain**	**Rain**
MCW-17	-	2/2/2015	Dry	<	**Rain**	**Rain**
MCW-17	-	2/3/2015 ♦	Dry	<	10	10
MCW-17	-	2/4/2015	Dry	<	10	10
MCW-17	-	2/5/2015	Dry	<	10	10
MCW-17	-	2/6/2015	Dry	<	10	10
MCW-17	-	2/7/2015	Dry	<	10	10
MCW-17	-	2/8/2015	Dry	<	10	10
MCW-17	-	2/9/2015	Dry	<	10	10
MCW-17	-	2/10/2015 ♦	Dry	<	10	10
MCW-17	-	2/11/2015	Dry	<	10	10
MCW-17	-	2/12/2015	Dry	<	10	10
MCW-17	-	2/13/2015	Dry	<	10	10
MCW-17	-	2/14/2015	Dry	<	10	10
MCW-17	-	2/15/2015	Dry	<	10	10
MCW-17	-	2/16/2015	Dry	<	10	10
MCW-17	-	2/17/2015 ♦	Dry	<	10	10
MCW-17	-	2/18/2015	Dry	<	10	10
MCW-17	-	2/19/2015	Dry	<	10	10
MCW-17	-	2/20/2015	Dry	<	10	10
MCW-17	-	2/21/2015	Dry	<	10	10
MCW-17	-	2/22/2015	Dry	<	10	10
MCW-17	-	2/23/2015	Dry	<	10	10
MCW-17	-	2/24/2015 ♦	Dry		**Rain**	**Rain**
MCW-17	-	2/25/2015	Dry		**Rain**	**Rain**
MCW-17	-	2/26/2015	Dry		**Rain**	**Rain**
MCW-17	-	2/27/2015	Dry		**Rain**	**Rain**
MCW-17	-	2/28/2015	Dry		**Rain**	**Rain**
MCW-18	-	2/1/2015	Dry	<	**Rain**	**Rain**
MCW-18	-	2/2/2015	Dry	<	**Rain**	**Rain**



MCW-18	-	2/3/2015 ♦	Dry	<	10	10
MCW-18	-	2/4/2015	Dry	<	10	10
MCW-18	-	2/5/2015	Dry	<	10	10
MCW-18	-	2/6/2015	Dry	<	10	10
MCW-18	-	2/7/2015	Dry	<	10	10
MCW-18	-	2/8/2015	Dry	<	10	10
MCW-18	-	2/9/2015	Dry	<	10	10
MCW-18	-	2/10/2015 ♦	Dry	<	10	10
MCW-18	-	2/11/2015	Dry	<	10	10
MCW-18	-	2/12/2015	Dry	<	10	10
MCW-18	-	2/13/2015	Dry	<	10	10
MCW-18	-	2/14/2015	Dry	<	10	10
MCW-18	-	2/15/2015	Dry	<	10	10
MCW-18	-	2/16/2015	Dry	<	10	10
MCW-18	-	2/17/2015 ♦	Dry	<	10	10
MCW-18	-	2/18/2015	Dry	<	10	10
MCW-18	-	2/19/2015	Dry	<	10	10
MCW-18	-	2/20/2015	Dry	<	10	10
MCW-18	-	2/21/2015	Dry	<	10	10
MCW-18	-	2/22/2015	Dry	<	10	10
MCW-18	-	2/23/2015	Dry	<	10	10
MCW-18	-	2/24/2015 ♦	Dry		**Rain**	**Rain**
MCW-18	-	2/25/2015	Dry		**Rain**	**Rain**
MCW-18	-	2/26/2015	Dry		**Rain**	**Rain**
MCW-18	-	2/27/2015	Dry		**Rain**	**Rain**
MCW-18	-	2/28/2015	Dry		**Rain**	**Rain**

Notes:

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 geomean. Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦Date of sampling



county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

April 24, 2015

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
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Watershed Protection District
Tully K. Clifford, Director
Transportation Department
David L. Fleisch, Director
Engineering Services Department
Herbert L. Schwind, Director
Water & Sanitation Department
David J. Sasek, Director
Central Services Department
Janice E. Turner, Director

Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL (TMDL) Compliance Monitoring Plan (CMP) for the month of March 2015. Sites were sampled weekly on Tuesdays (March 3, 10, 17, 24 and 31). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

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 Ewelina Mutkowska at (805) 645-1382.

Sincerely,


Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles (via email)



Mr. Kangshi Wang
 April 24, 2015
 Page 2 of 7

Table 1. Weekly sampling results

Location	Time	Date	Rain	Single	Sample
				(as sampled)	E. coli
					(235 MPN)
MCW-8b	-	3/3/2015 ♦	Rain		Dry
MCW-8b	-	3/10/2015 ♦			Dry
MCW-8b	-	3/17/2015 ♦			Dry
MCW-8b	-	3/24/2015 ♦			Dry
MCW-8b	-	3/31/2015 ♦			Dry
MCW-9	-	3/3/2015 ♦	Rain		Dry
MCW-9	-	3/10/2015 ♦			Dry
MCW-9	-	3/17/2015 ♦			Dry
MCW-9	-	3/24/2015 ♦			Dry
MCW-9	-	3/31/2015 ♦			Dry
MCW-12	115	3/3/2015 ♦	Rain	=	9,000
MCW-12	1140	3/10/2015 ♦		=	500
MCW-12	1130	3/17/2015 ♦		=	70
MCW-12	1115	3/24/2015 ♦		=	20
MCW-13	1040	3/31/2015 ♦		=	20
MCW-14b	1100	3/3/2015 ♦	Rain	≥	16,000
MCW-14b	1100	3/10/2015 ♦		=	140
MCW-14b	1050	3/17/2015 ♦		=	40
MCW-14b	1040	3/24/2015 ♦		<	20
MCW-14b	1015	3/31/2015 ♦		=	300
MCW-15c	1015	3/3/2015 ♦	Rain	=	1,300
MCW-15c	1015	3/10/2015 ♦		=	110
MCW-15c	1025	3/17/2015 ♦		<	20
MCW-15c	950	3/24/2015 ♦		=	40
MCW-15c	940	3/31/2015 ♦		<	20
MCW-17	-	3/3/2015 ♦	Rain		Dry
MCW-17	-	3/10/2015 ♦			Dry
MCW-17	-	3/17/2015 ♦			Dry
MCW-17	-	3/24/2015 ♦			Dry
MCW-17	-	3/31/2015 ♦			Dry
MCW-18	-	3/3/2015 ♦	Rain		Dry
MCW-18	-	3/10/2015 ♦			Dry
MCW-18	-	3/17/2015 ♦			Dry
MCW-18	-	3/24/2015 ♦			Dry
MCW-18	-	3/31/2015 ♦			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



Mr. Kangshi Wang

April 24, 2015

Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	Geomean
				E. coli (235 MPN)	E. coli (126 MPN)
MCW-8b	-	3/1/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/2/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/3/2015♦	Dry	**Rain**	**Rain**
MCW-8b	-	3/4/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/5/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/6/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/7/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/8/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/9/2015	Dry	**Rain**	**Rain**
MCW-8b	-	3/10/2015♦	Dry	< 10	10
MCW-8b	-	3/11/2015	Dry	< 10	10
MCW-8b	-	3/12/2015	Dry	< 10	10
MCW-8b	-	3/13/2015	Dry	< 10	10
MCW-8b	-	3/14/2015	Dry	< 10	10
MCW-8b	-	3/15/2015	Dry	< 10	10
MCW-8b	-	3/16/2015	Dry	< 10	10
MCW-8b	-	3/17/2015♦	Dry	< 10	10
MCW-8b	-	3/18/2015	Dry	< 10	10
MCW-8b	-	3/19/2015	Dry	< 10	10
MCW-8b	-	3/20/2015	Dry	< 10	10
MCW-8b	-	3/21/2015	Dry	< 10	10
MCW-8b	-	3/22/2015	Dry	< 10	10
MCW-8b	-	3/23/2015	Dry	< 10	10
MCW-8b	-	3/24/2015♦	Dry	< 10	10
MCW-8b	-	3/25/2015	Dry	< 10	10
MCW-8b	-	3/26/2015	Dry	< 10	10
MCW-8b	-	3/27/2015	Dry	< 10	10
MCW-8b	-	3/28/2015	Dry	< 10	10
MCW-8b	-	3/29/2015	Dry	< 10	10
MCW-8b	-	3/30/2015	Dry	< 10	10
MCW-8b	-	3/31/2015♦	Dry	< 10	10
MCW-9	-	3/1/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/2/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/3/2015♦	Dry	**Rain**	**Rain**
MCW-9	-	3/4/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/5/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/6/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/7/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/8/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/9/2015	Dry	**Rain**	**Rain**
MCW-9	-	3/10/2015♦	Dry	< 10	10
MCW-9	-	3/11/2015	Dry	< 10	10
MCW-9	-	3/12/2015	Dry	< 10	10



Mr. Kangshi Wang

April 24, 2015

Page 4 of 7

MCW-9	-	3/13/2015	Dry	<	10	10
MCW-9	-	3/14/2015	Dry	<	10	10
MCW-9	-	3/15/2015	Dry	<	10	10
MCW-9	-	3/16/2015	Dry	<	10	10
MCW-9	-	3/17/2015♦	Dry	<	10	10
MCW-9	-	3/18/2015	Dry	<	10	10
MCW-9	-	3/19/2015	Dry	<	10	10
MCW-9	-	3/20/2015	Dry	<	10	10
MCW-9	-	3/21/2015	Dry	<	10	10
MCW-9	-	3/22/2015	Dry	<	10	10
MCW-9	-	3/23/2015	Dry	<	10	10
MCW-9	-	3/24/2015♦	Dry	<	10	10
MCW-9	-	3/25/2015	Dry	<	10	10
MCW-9	-	3/26/2015	Dry	<	10	10
MCW-9	-	3/27/2015	Dry	<	10	10
MCW-9	-	3/28/2015	Dry	<	10	10
MCW-9	-	3/29/2015	Dry	<	10	10
MCW-9	-	3/30/2015	Dry	<	10	10
MCW-9	-	3/31/2015♦	Dry	<	10	10
MCW-12	1135	3/1/2015			**Rain**	**Rain**
MCW-12	1135	3/2/2015			**Rain**	**Rain**
MCW-12	115	3/3/2015♦			**Rain**	**Rain**
MCW-12	115	3/4/2015			**Rain**	**Rain**
MCW-12	115	3/5/2015			**Rain**	**Rain**
MCW-12	115	3/6/2015			**Rain**	**Rain**
MCW-12	115	3/7/2015			**Rain**	**Rain**
MCW-12	115	3/8/2015			**Rain**	**Rain**
MCW-12	115	3/9/2015			**Rain**	**Rain**
MCW-12	1140	3/10/2015♦		=	500	245
MCW-12	1140	3/11/2015		=	500	242
MCW-12	1140	3/12/2015		=	500	249
MCW-12	1140	3/13/2015		=	500	256
MCW-12	1140	3/14/2015		=	500	263
MCW-12	1140	3/15/2015		=	500	270
MCW-12	1140	3/16/2015		=	500	277
MCW-12	1130	3/17/2015♦		=	70	266
MCW-12	1130	3/18/2015		=	70	256
MCW-12	1130	3/19/2015		=	70	245
MCW-12	1130	3/20/2015		=	70	235
MCW-12	1130	3/21/2015		=	70	226
MCW-12	1130	3/22/2015		=	70	217
MCW-12	1130	3/23/2015		=	70	208
MCW-12	1115	3/24/2015♦		=	20	191
MCW-12	1115	3/25/2015		=	20	176
MCW-12	1115	3/26/2015		=	20	162
MCW-12	1115	3/27/2015		=	20	149
MCW-12	1115	3/28/2015		=	20	137
MCW-12	1115	3/29/2015		=	20	126
MCW-12	1115	3/30/2015		=	20	115



MCW-12	1040	3/31/2015 ♦	=	20	106
MCW-14b	1100	3/1/2015		**Rain**	**Rain**
MCW-14b	1100	3/2/2015		**Rain**	**Rain**
MCW-14b	1100	3/3/2015 ♦		**Rain**	**Rain**
MCW-14b	1100	3/4/2015		**Rain**	**Rain**
MCW-14b	1100	3/5/2015		**Rain**	**Rain**
MCW-14b	1100	3/6/2015		**Rain**	**Rain**
MCW-14b	1100	3/7/2015		**Rain**	**Rain**
MCW-14b	1100	3/8/2015		**Rain**	**Rain**
MCW-14b	1100	3/9/2015		**Rain**	**Rain**
MCW-14b	1100	3/10/2015 ♦	=	140	130
MCW-14b	1100	3/11/2015	=	140	139
MCW-14b	1100	3/12/2015	=	140	131
MCW-14b	1100	3/13/2015	=	140	125
MCW-14b	1100	3/14/2015	=	140	118
MCW-14b	1100	3/15/2015	=	140	112
MCW-14b	1100	3/16/2015	=	140	106
MCW-14b	1050	3/17/2015 ♦	=	40	96
MCW-14b	1050	3/18/2015	=	40	88
MCW-14b	1050	3/19/2015	=	40	86
MCW-14b	1050	3/20/2015	=	40	84
MCW-14b	1050	3/21/2015	=	40	82
MCW-14b	1050	3/22/2015	=	40	80
MCW-14b	1050	3/23/2015	=	40	78
MCW-14b	1040	3/24/2015 ♦	<	20	75
MCW-14b	1040	3/25/2015	<	20	71
MCW-14b	1040	3/26/2015	<	20	70
MCW-14b	1040	3/27/2015	<	20	69
MCW-14b	1040	3/28/2015	<	20	68
MCW-14b	1040	3/29/2015	<	20	67
MCW-14b	1040	3/30/2015	<	20	67
MCW-14b	1015	3/31/2015 ♦	=	300	72
MCW-15c	1025	3/1/2015		**Rain**	**Rain**
MCW-15c	1025	3/2/2015		**Rain**	**Rain**
MCW-15c	1015	3/3/2015 ♦		**Rain**	**Rain**
MCW-15c	1015	3/4/2015		**Rain**	**Rain**
MCW-15c	1015	3/5/2015		**Rain**	**Rain**
MCW-15c	1015	3/6/2015		**Rain**	**Rain**
MCW-15c	1015	3/7/2015		**Rain**	**Rain**
MCW-15c	1015	3/8/2015		**Rain**	**Rain**
MCW-15c	1015	3/9/2015		**Rain**	**Rain**
MCW-15c	1015	3/10/2015 ♦	=	110	176
MCW-15c	1015	3/11/2015	=	110	190
MCW-15c	1015	3/12/2015	=	110	187
MCW-15c	1015	3/13/2015	=	110	185
MCW-15c	1015	3/14/2015	=	110	182
MCW-15c	1015	3/15/2015	=	110	179
MCW-15c	1015	3/16/2015	=	110	177
MCW-15c	1025	3/17/2015 ♦	<	10	165



MCW-15c	1025	3/18/2015		<	10	153
MCW-15c	1025	3/19/2015		<	10	140
MCW-15c	1025	3/20/2015		<	10	128
MCW-15c	1025	3/21/2015		<	10	117
MCW-15c	1025	3/22/2015		<	10	107
MCW-15c	1025	3/23/2015		<	10	98
MCW-15c	950	3/24/2015 ♦		=	40	91
MCW-15c	950	3/25/2015		=	40	85
MCW-15c	950	3/26/2015		=	40	89
MCW-15c	950	3/27/2015		=	40	94
MCW-15c	950	3/28/2015		=	40	98
MCW-15c	950	3/29/2015		=	40	103
MCW-15c	950	3/30/2015		=	40	108
MCW-15c	940	3/31/2015 ♦		<	10	110
MCW-17	-	3/1/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/2/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/3/2015 ♦	Dry	**Rain**	**Rain**	
MCW-17	-	3/4/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/5/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/6/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/7/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/8/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/9/2015	Dry	**Rain**	**Rain**	
MCW-17	-	3/10/2015 ♦	Dry	<	10	10
MCW-17	-	3/11/2015	Dry	<	10	10
MCW-17	-	3/12/2015	Dry	<	10	10
MCW-17	-	3/13/2015	Dry	<	10	10
MCW-17	-	3/14/2015	Dry	<	10	10
MCW-17	-	3/15/2015	Dry	<	10	10
MCW-17	-	3/16/2015	Dry	<	10	10
MCW-17	-	3/17/2015 ♦	Dry	<	10	10
MCW-17	-	3/18/2015	Dry	<	10	10
MCW-17	-	3/19/2015	Dry	<	10	10
MCW-17	-	3/20/2015	Dry	<	10	10
MCW-17	-	3/21/2015	Dry	<	10	10
MCW-17	-	3/22/2015	Dry	<	10	10
MCW-17	-	3/23/2015	Dry	<	10	10
MCW-17	-	3/24/2015 ♦	Dry	<	10	10
MCW-17	-	3/25/2015	Dry	<	10	10
MCW-17	-	3/26/2015	Dry	<	10	10
MCW-17	-	3/27/2015	Dry	<	10	10
MCW-17	-	3/28/2015	Dry	<	10	10
MCW-17	-	3/29/2015	Dry	<	10	10
MCW-17	-	3/30/2015	Dry	<	10	10
MCW-17	-	3/31/2015 ♦	Dry	<	10	10
MCW-18	-	3/1/2015	Dry	**Rain**	**Rain**	
MCW-18	-	3/2/2015	Dry	**Rain**	**Rain**	
MCW-18	-	3/3/2015 ♦	Dry	**Rain**	**Rain**	



April 24, 2015

Page 7 of 7

MCW-18	-	3/4/2015	Dry		**Rain**	**Rain**
MCW-18	-	3/5/2015	Dry		**Rain**	**Rain**
MCW-18	-	3/6/2015	Dry		**Rain**	**Rain**
MCW-18	-	3/7/2015	Dry		**Rain**	**Rain**
MCW-18	-	3/8/2015	Dry		**Rain**	**Rain**
MCW-18	-	3/9/2015	Dry		**Rain**	**Rain**
MCW-18	-	3/10/2015 ♦	Dry	<	10	10
MCW-18	-	3/11/2015	Dry	<	10	10
MCW-18	-	3/12/2015	Dry	<	10	10
MCW-18	-	3/13/2015	Dry	<	10	10
MCW-18	-	3/14/2015	Dry	<	10	10
MCW-18	-	3/15/2015	Dry	<	10	10
MCW-18	-	3/16/2015	Dry	<	10	10
MCW-18	-	3/17/2015 ♦	Dry	<	10	10
MCW-18	-	3/18/2015	Dry	<	10	10
MCW-18	-	3/19/2015	Dry	<	10	10
MCW-18	-	3/20/2015	Dry	<	10	10
MCW-18	-	3/21/2015	Dry	<	10	10
MCW-18	-	3/22/2015	Dry	<	10	10
MCW-18	-	3/23/2015	Dry	<	10	10
MCW-18	-	3/24/2015 ♦	Dry	<	10	10
MCW-18	-	3/25/2015	Dry	<	10	10
MCW-18	-	3/26/2015	Dry	<	10	10
MCW-18	-	3/27/2015	Dry	<	10	10
MCW-18	-	3/28/2015	Dry	<	10	10
MCW-18	-	3/29/2015	Dry	<	10	10
MCW-18	-	3/30/2015	Dry	<	10	10
MCW-18	-	3/31/2015 ♦	Dry	<	10	10

Notes:

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 geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦ Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

May 19, 2015

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
(213) 576-6780

Watershed Protection District
Tully K. Clifford, Director
Transportation Department
David L. Fleisch, Director
Engineering Services Department
Herbert L. Schwind, Director
Water & Sanitation Department
David J. Sasek, Director
Central Services Department
Janice E. Turner, Director

Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL (TMDL) Compliance Monitoring Plan (CMP) for the month of April 2015. Sites were sampled weekly on Tuesdays (April 14, 21 and 28), except for one instance when sites were sampled on Wednesday (April 8) due to staffing conflicts. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

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 Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles (via email)



Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample (as sampled)
				E. coli (235 MPN)
MCW-8b	-	4/8/2015 ♦		Dry
MCW-8b	-	4/14/2015 ♦		Dry
MCW-8b	-	4/21/2015 ♦		Dry
MCW-8b	-	4/28/2015 ♦		Dry
MCW-9	-	4/8/2015 ♦		Dry
MCW-9	-	4/14/2015 ♦		Dry
MCW-9	-	4/21/2015 ♦		Dry
MCW-9	-	4/28/2015 ♦		Dry
MCW-12	1130	4/8/2015 ♦	=	20
MCW-12	100	4/14/2015 ♦	<	20
MCW-12	1145	4/21/2015 ♦	=	40
MCW-12	1230	4/28/2015 ♦	=	260
MCW-14b	1100	4/8/2015 ♦	=	20
MCW-14b	1230	4/14/2015 ♦	=	140
MCW-14b	1100	4/21/2015 ♦	=	270
MCW-14b	1115	4/28/2015 ♦	=	130
MCW-15c	1035	4/8/2015 ♦	=	40
MCW-15c	1140	4/14/2015 ♦	<	20
MCW-15c	1015	4/21/2015 ♦	=	40
MCW-15c	1015	4/28/2015 ♦	=	80
MCW-17	-	4/8/2015 ♦		Dry
MCW-17	-	4/14/2015 ♦		Dry
MCW-17	-	4/21/2015 ♦		Dry
MCW-17	-	4/28/2015 ♦		Dry
MCW-18	-	4/8/2015 ♦		Dry
MCW-18	-	4/14/2015 ♦		Dry
MCW-18	-	4/21/2015 ♦		Dry
MCW-18	-	4/28/2015 ♦		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

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	
				E. coli (235 MPN)	Geomean E. coli (126 MPN)
MCW-8b	-	4/1/2015	Dry	< 10	10
MCW-8b	-	4/2/2015	Dry	< 10	10
MCW-8b	-	4/3/2015	Dry	< 10	10
MCW-8b	-	4/4/2015	Dry	< 10	10
MCW-8b	-	4/5/2015	Dry	< 10	10
MCW-8b	-	4/6/2015	Dry	< 10	10
MCW-8b	-	4/7/2015	Dry	< 10	10
MCW-8b	-	4/8/2015♦	Dry	< 10	10
MCW-8b	-	4/9/2015	Dry	< 10	10
MCW-8b	-	4/10/2015	Dry	< 10	10
MCW-8b	-	4/11/2015	Dry	< 10	10
MCW-8b	-	4/12/2015	Dry	< 10	10
MCW-8b	-	4/13/2015	Dry	< 10	10
MCW-8b	-	4/14/2015♦	Dry	< 10	10
MCW-8b	-	4/15/2015	Dry	< 10	10
MCW-8b	-	4/16/2015	Dry	< 10	10
MCW-8b	-	4/17/2015	Dry	< 10	10
MCW-8b	-	4/18/2015	Dry	< 10	10
MCW-8b	-	4/19/2015	Dry	< 10	10
MCW-8b	-	4/20/2015	Dry	< 10	10
MCW-8b	-	4/21/2015♦	Dry	< 10	10
MCW-8b	-	4/22/2015	Dry	< 10	10
MCW-8b	-	4/23/2015	Dry	< 10	10
MCW-8b	-	4/24/2015	Dry	< 10	10
MCW-8b	-	4/25/2015	Dry	< 10	10
MCW-8b	-	4/26/2015	Dry	< 10	10
MCW-8b	-	4/27/2015	Dry	< 10	10
MCW-8b	-	4/28/2015♦	Dry	< 10	10
MCW-8b	-	4/29/2015	Dry	< 10	10
MCW-8b	-	4/30/2015	Dry	< 10	10
MCW-9	-	4/1/2015	Dry	< 10	10
MCW-9	-	4/2/2015	Dry	< 10	10
MCW-9	-	4/3/2015	Dry	< 10	10
MCW-9	-	4/4/2015	Dry	< 10	10
MCW-9	-	4/5/2015	Dry	< 10	10
MCW-9	-	4/6/2015	Dry	< 10	10
MCW-9	-	4/7/2015	Dry	< 10	10
MCW-9	-	4/8/2015♦	Dry	< 10	10
MCW-9	-	4/9/2015	Dry	< 10	10
MCW-9	-	4/10/2015	Dry	< 10	10
MCW-9	-	4/11/2015	Dry	< 10	10

MCW-9	-	4/12/2015	Dry	<	10	10
MCW-9	-	4/13/2015	Dry	<	10	10
MCW-9	-	4/14/2015 ♦	Dry	<	10	10
MCW-9	-	4/15/2015	Dry	<	10	10
MCW-9	-	4/16/2015	Dry	<	10	10
MCW-9	-	4/17/2015	Dry	<	10	10
MCW-9	-	4/18/2015	Dry	<	10	10
MCW-9	-	4/19/2015	Dry	<	10	10
MCW-9	-	4/20/2015	Dry	<	10	10
MCW-9	-	4/21/2015 ♦	Dry	<	10	10
MCW-9	-	4/22/2015	Dry	<	10	10
MCW-9	-	4/23/2015	Dry	<	10	10
MCW-9	-	4/24/2015	Dry	<	10	10
MCW-9	-	4/25/2015	Dry	<	10	10
MCW-9	-	4/26/2015	Dry	<	10	10
MCW-9	-	4/27/2015	Dry	<	10	10
MCW-9	-	4/28/2015 ♦	Dry	<	10	10
MCW-9	-	4/29/2015	Dry	<	10	10
MCW-9	-	4/30/2015	Dry	<	10	10
MCW-12	1040	4/1/2015		=	20	100
MCW-12	1040	4/2/2015		=	20	93
MCW-12	1040	4/3/2015		=	20	85
MCW-12	1040	4/4/2015		=	20	79
MCW-12	1040	4/5/2015		=	20	72
MCW-12	1040	4/6/2015		=	20	67
MCW-12	1040	4/7/2015		=	20	62
MCW-12	1130	4/8/2015 ♦		=	20	57
MCW-12	1130	4/9/2015		=	20	51
MCW-12	1130	4/10/2015		=	20	46
MCW-12	1130	4/11/2015		=	20	41
MCW-12	1130	4/12/2015		=	20	37
MCW-12	1130	4/13/2015		=	20	33
MCW-12	100	4/14/2015 ♦		<	10	29
MCW-12	100	4/15/2015		<	10	26
MCW-12	100	4/16/2015		<	10	24
MCW-12	100	4/17/2015		<	10	22
MCW-12	100	4/18/2015		<	10	21
MCW-12	100	4/19/2015		<	10	20
MCW-12	100	4/20/2015		<	10	18
MCW-12	1145	4/21/2015 ♦		=	40	18
MCW-12	1145	4/22/2015		=	40	18
MCW-12	1145	4/23/2015		=	40	18
MCW-12	1145	4/24/2015		=	40	19
MCW-12	1145	4/25/2015		=	40	19
MCW-12	1145	4/26/2015		=	40	20
MCW-12	1145	4/27/2015		=	40	20
MCW-12	1230	4/28/2015 ♦		=	260	22
MCW-12	1230	4/29/2015		=	260	24

MCW-12	1230	4/30/2015	=	260	26
MCW-14b	1015	4/1/2015	=	300	78
MCW-14b	1015	4/2/2015	=	300	78
MCW-14b	1015	4/3/2015	=	300	79
MCW-14b	1015	4/4/2015	=	300	80
MCW-14b	1015	4/5/2015	=	300	81
MCW-14b	1015	4/6/2015	=	300	82
MCW-14b	1015	4/7/2015	=	300	83
MCW-14b	1100	4/8/2015 ♦	<	10	74
MCW-14b	1100	4/9/2015	<	10	68
MCW-14b	1100	4/10/2015	<	10	62
MCW-14b	1100	4/11/2015	<	10	57
MCW-14b	1100	4/12/2015	<	10	52
MCW-14b	1100	4/13/2015	<	10	48
MCW-14b	1230	4/14/2015 ♦	=	140	48
MCW-14b	1230	4/15/2015	=	140	48
MCW-14b	1230	4/16/2015	=	140	50
MCW-14b	1230	4/17/2015	=	140	52
MCW-14b	1230	4/18/2015	=	140	54
MCW-14b	1230	4/19/2015	=	140	57
MCW-14b	1230	4/20/2015	=	140	59
MCW-14b	1100	4/21/2015 ♦	=	270	63
MCW-14b	1100	4/22/2015	=	270	67
MCW-14b	1100	4/23/2015	=	270	73
MCW-14b	1100	4/24/2015	=	270	80
MCW-14b	1100	4/25/2015	=	270	87
MCW-14b	1100	4/26/2015	=	270	95
MCW-14b	1100	4/27/2015	=	270	104
MCW-14b	1115	4/28/2015 ♦	=	130	110
MCW-14b	1115	4/29/2015	=	130	117
MCW-14b	1115	4/30/2015	=	130	114
MCW-15c	940	4/1/2015	<	10	92
MCW-15c	940	4/2/2015	<	10	76
MCW-15c	940	4/3/2015	<	10	63
MCW-15c	940	4/4/2015	<	10	52
MCW-15c	940	4/5/2015	<	10	43
MCW-15c	940	4/6/2015	<	10	35
MCW-15c	940	4/7/2015	<	10	29
MCW-15c	1035	4/8/2015 ♦	=	40	25
MCW-15c	1035	4/9/2015	=	40	24
MCW-15c	1035	4/10/2015	=	40	24
MCW-15c	1035	4/11/2015	=	40	23
MCW-15c	1035	4/12/2015	=	40	22
MCW-15c	1035	4/13/2015	=	40	21
MCW-15c	1140	4/14/2015 ♦	<	10	20
MCW-15c	1140	4/15/2015	<	10	18
MCW-15c	1140	4/16/2015	<	10	18

MCW-15c	1140	4/17/2015		<	10	18
MCW-15c	1140	4/18/2015		<	10	18
MCW-15c	1140	4/19/2015		<	10	18
MCW-15c	1140	4/20/2015		<	10	18
MCW-15c	1015	4/21/2015 ♦		=	40	19
MCW-15c	1015	4/22/2015		=	40	20
MCW-15c	1015	4/23/2015		=	40	20
MCW-15c	1015	4/24/2015		=	40	20
MCW-15c	1015	4/25/2015		=	40	20
MCW-15c	1015	4/26/2015		=	40	20
MCW-15c	1015	4/27/2015		=	40	20
MCW-15c	1015	4/28/2015 ♦		=	80	20
MCW-15c	1015	4/29/2015		=	80	21
MCW-15c	1015	4/30/2015		=	80	22
MCW-17	-	4/1/2015	Dry	<	10	10
MCW-17	-	4/2/2015	Dry	<	10	10
MCW-17	-	4/3/2015	Dry	<	10	10
MCW-17	-	4/4/2015	Dry	<	10	10
MCW-17	-	4/5/2015	Dry	<	10	10
MCW-17	-	4/6/2015	Dry	<	10	10
MCW-17	-	4/7/2015	Dry	<	10	10
MCW-17	-	4/8/2015 ♦	Dry	<	10	10
MCW-17	-	4/9/2015	Dry	<	10	10
MCW-17	-	4/10/2015	Dry	<	10	10
MCW-17	-	4/11/2015	Dry	<	10	10
MCW-17	-	4/12/2015	Dry	<	10	10
MCW-17	-	4/13/2015	Dry	<	10	10
MCW-17	-	4/14/2015 ♦	Dry	<	10	10
MCW-17	-	4/15/2015	Dry	<	10	10
MCW-17	-	4/16/2015	Dry	<	10	10
MCW-17	-	4/17/2015	Dry	<	10	10
MCW-17	-	4/18/2015	Dry	<	10	10
MCW-17	-	4/19/2015	Dry	<	10	10
MCW-17	-	4/20/2015	Dry	<	10	10
MCW-17	-	4/21/2015 ♦	Dry	<	10	10
MCW-17	-	4/22/2015	Dry	<	10	10
MCW-17	-	4/23/2015	Dry	<	10	10
MCW-17	-	4/24/2015	Dry	<	10	10
MCW-17	-	4/25/2015	Dry	<	10	10
MCW-17	-	4/26/2015	Dry	<	10	10
MCW-17	-	4/27/2015	Dry	<	10	10
MCW-17	-	4/28/2015 ♦	Dry	<	10	10
MCW-17	-	4/29/2015	Dry	<	10	10
MCW-17	-	4/30/2015	Dry	<	10	10
MCW-18	-	4/1/2015	Dry	<	10	10
MCW-18	-	4/2/2015	Dry	<	10	10

MCW-18	-	4/3/2015	Dry	<	10	10
MCW-18	-	4/4/2015	Dry	<	10	10
MCW-18	-	4/5/2015	Dry	<	10	10
MCW-18	-	4/6/2015	Dry	<	10	10
MCW-18	-	4/7/2015	Dry	<	10	10
MCW-18	-	4/8/2015 ♦	Dry	<	10	10
MCW-18	-	4/9/2015	Dry	<	10	10
MCW-18	-	4/10/2015	Dry	<	10	10
MCW-18	-	4/11/2015	Dry	<	10	10
MCW-18	-	4/12/2015	Dry	<	10	10
MCW-18	-	4/13/2015	Dry	<	10	10
MCW-18	-	4/14/2015 ♦	Dry	<	10	10
MCW-18	-	4/15/2015	Dry	<	10	10
MCW-18	-	4/16/2015	Dry	<	10	10
MCW-18	-	4/17/2015	Dry	<	10	10
MCW-18	-	4/18/2015	Dry	<	10	10
MCW-18	-	4/19/2015	Dry	<	10	10
MCW-18	-	4/20/2015	Dry	<	10	10
MCW-18	-	4/21/2015 ♦	Dry	<	10	10
MCW-18	-	4/22/2015	Dry	<	10	10
MCW-18	-	4/23/2015	Dry	<	10	10
MCW-18	-	4/24/2015	Dry	<	10	10
MCW-18	-	4/25/2015	Dry	<	10	10
MCW-18	-	4/26/2015	Dry	<	10	10
MCW-18	-	4/27/2015	Dry	<	10	10
MCW-18	-	4/28/2015 ♦	Dry	<	10	10
MCW-18	-	4/29/2015	Dry	<	10	10
MCW-18	-	4/30/2015	Dry	<	10	10

Notes:

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 geomean. Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦ Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

June 30, 2015

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
(213) 576-6780

Watershed Protection District
Tully K. Clifford, Director
Transportation Department
David L. Fleisch, Director
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Herbert L. Schwind, Director
Water & Sanitation Department
David J. Sasek, Director
Central Services Department
Janice E. Turner, Director

Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL (TMDL) Compliance Monitoring Plan (CMP) for the month of May 2015. Sites were sampled weekly on Tuesdays (May 5, 12, 19 and 26). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

On May 22, 2015, 450 gallons of sewage spilled in Oak Park. The Triunfo Sanitation District was able to provide for immediate response and recovery of 250 gallons. More information is available at <http://www.waterboards.ca.gov/ciwqs/publicreports.shtml#sso>.

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 Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura



Dr. Kangshi Wang

June 30, 2015

Page 2 of 8

JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles (via email)



Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample (as sampled)
				E. coli (235 MPN)
MCW-8b	-	5/5/2015 ♦		Dry
MCW-8b	-	5/12/2015 ♦		Dry
MCW-8b	-	5/19/2015 ♦		Dry
MCW-8b	-	5/26/2015 ♦		Dry
MCW-9	-	5/5/2015 ♦		Dry
MCW-9	-	5/12/2015 ♦		Dry
MCW-9	-	5/19/2015 ♦		Dry
MCW-9	-	5/26/2015 ♦		Dry
MCW-12	1155	5/5/2015 ♦	=	300
MCW-12	1045	5/12/2015 ♦	<	20
MCW-12	1145	5/19/2015 ♦	=	20
MCW-12	1145	5/26/2015 ♦		Dry
MCW-14b	1040	5/5/2015 ♦	=	40
MCW-14b	1045	5/12/2015 ♦	=	20
MCW-14b	1110	5/19/2015 ♦	<	20
MCW-14b	1100	5/26/2015 ♦	<	20
MCW-15c	945	5/5/2015 ♦	=	80
MCW-15c	1215	5/12/2015 ♦	<	20
MCW-15c	1025	5/19/2015 ♦	=	20
MCW-15c	1000	5/26/2015 ♦	<	20
MCW-17	-	5/5/2015 ♦		Dry
MCW-17	-	5/12/2015 ♦		Dry
MCW-17	-	5/19/2015 ♦		Dry
MCW-17	-	5/26/2015 ♦		Dry
MCW-18	-	5/5/2015 ♦		Dry
MCW-18	-	5/12/2015 ♦		Dry
MCW-18	-	5/19/2015 ♦		Dry
MCW-18	-	5/26/2015 ♦		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



Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)	
				E. coli (235 MPN)	Geomean E. coli (126 MPN)
MCW-8b	-	5/1/2015	Dry	< 10	10
MCW-8b	-	5/2/2015	Dry	< 10	10
MCW-8b	-	5/3/2015	Dry	< 10	10
MCW-8b	-	5/4/2015	Dry	< 10	10
MCW-8b	-	5/5/2015♦	Dry	< 10	10
MCW-8b	-	5/6/2015	Dry	< 10	10
MCW-8b	-	5/7/2015	Dry	< 10	10
MCW-8b	-	5/8/2015	Dry	< 10	10
MCW-8b	-	5/9/2015	Dry	< 10	10
MCW-8b	-	5/10/2015	Dry	< 10	10
MCW-8b	-	5/11/2015	Dry	< 10	10
MCW-8b	-	5/12/2015♦	Dry	< 10	10
MCW-8b	-	5/13/2015	Dry	< 10	10
MCW-8b	-	5/14/2015	Dry	< 10	10
MCW-8b	-	5/15/2015	Dry	< 10	10
MCW-8b	-	5/16/2015	Dry	< 10	10
MCW-8b	-	5/17/2015	Dry	< 10	10
MCW-8b	-	5/18/2015	Dry	< 10	10
MCW-8b	-	5/19/2015♦	Dry	< 10	10
MCW-8b	-	5/20/2015	Dry	< 10	10
MCW-8b	-	5/21/2015	Dry	< 10	10
MCW-8b	-	5/22/2015	Dry	< 10	10
MCW-8b	-	5/23/2015	Dry	< 10	10
MCW-8b	-	5/24/2015	Dry	< 10	10
MCW-8b	-	5/25/2015	Dry	< 10	10
MCW-8b	-	5/26/2015♦	Dry	< 10	10
MCW-8b	-	5/27/2015	Dry	< 10	10
MCW-8b	-	5/28/2015	Dry	< 10	10
MCW-8b	-	5/29/2015	Dry	< 10	10
MCW-8b	-	5/30/2015	Dry	< 10	10
MCW-8b	-	5/31/2015	Dry	< 10	10
MCW-9	-	5/1/2015	Dry	< 10	10
MCW-9	-	5/2/2015	Dry	< 10	10
MCW-9	-	5/3/2015	Dry	< 10	10
MCW-9	-	5/4/2015	Dry	< 10	10
MCW-9	-	5/5/2015♦	Dry	< 10	10
MCW-9	-	5/6/2015	Dry	< 10	10
MCW-9	-	5/7/2015	Dry	< 10	10
MCW-9	-	5/8/2015	Dry	< 10	10
MCW-9	-	5/9/2015	Dry	< 10	10
MCW-9	-	5/10/2015	Dry	< 10	10
MCW-9	-	5/11/2015	Dry	< 10	10



MCW-9	-	5/12/2015 ♦	Dry	<	10	10
MCW-9	-	5/13/2015	Dry	<	10	10
MCW-9	-	5/14/2015	Dry	<	10	10
MCW-9	-	5/15/2015	Dry	<	10	10
MCW-9	-	5/16/2015	Dry	<	10	10
MCW-9	-	5/17/2015	Dry	<	10	10
MCW-9	-	5/18/2015	Dry	<	10	10
MCW-9	-	5/19/2015 ♦	Dry	<	10	10
MCW-9	-	5/20/2015	Dry	<	10	10
MCW-9	-	5/21/2015	Dry	<	10	10
MCW-9	-	5/22/2015	Dry	<	10	10
MCW-9	-	5/23/2015	Dry	<	10	10
MCW-9	-	5/24/2015	Dry	<	10	10
MCW-9	-	5/25/2015	Dry	<	10	10
MCW-9	-	5/26/2015 ♦	Dry	<	10	10
MCW-9	-	5/27/2015	Dry	<	10	10
MCW-9	-	5/28/2015	Dry	<	10	10
MCW-9	-	5/29/2015	Dry	<	10	10
MCW-9	-	5/30/2015	Dry	<	10	10
MCW-9	-	5/31/2015	Dry	<	10	10
MCW-12	1230	5/1/2015		=	260	28
MCW-12	1230	5/2/2015		=	260	31
MCW-12	1230	5/3/2015		=	260	33
MCW-12	1230	5/4/2015		=	260	36
MCW-12	1155	5/5/2015 ♦		=	300	40
MCW-12	1155	5/6/2015		=	300	44
MCW-12	1155	5/7/2015		=	300	48
MCW-12	1155	5/8/2015		=	300	52
MCW-12	1155	5/9/2015		=	300	57
MCW-12	1155	5/10/2015		=	300	63
MCW-12	1155	5/11/2015		=	300	68
MCW-12	1045	5/12/2015 ♦		<	10	67
MCW-12	1045	5/13/2015		<	10	65
MCW-12	1045	5/14/2015		<	10	65
MCW-12	1045	5/15/2015		<	10	65
MCW-12	1045	5/16/2015		<	10	65
MCW-12	1045	5/17/2015		<	10	65
MCW-12	1045	5/18/2015		<	10	65
MCW-12	1145	5/19/2015 ♦		=	20	67
MCW-12	1145	5/20/2015		=	20	68
MCW-12	1145	5/21/2015		=	20	67
MCW-12	1145	5/22/2015		=	20	65
MCW-12	1145	5/23/2015		=	20	64
MCW-12	1145	5/24/2015		=	20	62
MCW-12	1145	5/25/2015		=	20	61
MCW-12	1145	5/26/2015 ♦	Dry	<	10	58
MCW-12	1145	5/27/2015	Dry	<	10	56
MCW-12	1145	5/28/2015	Dry	<	10	50
MCW-12	1145	5/29/2015	Dry	<	10	45



MCW-12	1145	5/30/2015	Dry	<	10	40
MCW-12	1145	5/31/2015	Dry	<	10	36
MCW-14b	1115	5/1/2015		=	130	128
MCW-14b	1115	5/2/2015		=	130	124
MCW-14b	1115	5/3/2015		=	130	121
MCW-14b	1115	5/4/2015		=	130	117
MCW-14b	1040	5/5/2015 ♦		=	40	110
MCW-14b	1040	5/6/2015		=	40	103
MCW-14b	1040	5/7/2015		=	40	96
MCW-14b	1040	5/8/2015		=	40	98
MCW-14b	1040	5/9/2015		=	40	100
MCW-14b	1040	5/10/2015		=	40	103
MCW-14b	1040	5/11/2015		=	40	105
MCW-14b	1045	5/12/2015 ♦		=	20	105
MCW-14b	1045	5/13/2015		=	20	105
MCW-14b	1045	5/14/2015		=	20	99
MCW-14b	1045	5/15/2015		=	20	92
MCW-14b	1045	5/16/2015		=	20	87
MCW-14b	1045	5/17/2015		=	20	81
MCW-14b	1045	5/18/2015		=	20	76
MCW-14b	1110	5/19/2015 ♦		<	10	70
MCW-14b	1110	5/20/2015		<	10	64
MCW-14b	1110	5/21/2015		<	10	57
MCW-14b	1110	5/22/2015		<	10	51
MCW-14b	1110	5/23/2015		<	10	46
MCW-14b	1110	5/24/2015		<	10	41
MCW-14b	1110	5/25/2015		<	10	37
MCW-14b	1100	5/26/2015 ♦		<	10	33
MCW-14b	1100	5/27/2015		<	10	30
MCW-14b	1100	5/28/2015		<	10	27
MCW-14b	1100	5/29/2015		<	10	25
MCW-14b	1100	5/30/2015		<	10	23
MCW-14b	1100	5/31/2015		<	10	21
MCW-15c	1015	5/1/2015		=	80	24
MCW-15c	1015	5/2/2015		=	80	26
MCW-15c	1015	5/3/2015		=	80	28
MCW-15c	1015	5/4/2015		=	80	30
MCW-15c	945	5/5/2015 ♦		=	80	32
MCW-15c	945	5/6/2015		=	80	34
MCW-15c	945	5/7/2015		=	80	36
MCW-15c	945	5/8/2015		=	80	37
MCW-15c	945	5/9/2015		=	80	38
MCW-15c	945	5/10/2015		=	80	39
MCW-15c	945	5/11/2015		=	80	40
MCW-15c	1215	5/12/2015 ♦		<	10	38
MCW-15c	1215	5/13/2015		<	10	36
MCW-15c	1215	5/14/2015		<	10	36
MCW-15c	1215	5/15/2015		<	10	36
MCW-15c	1215	5/16/2015		<	10	36



Dr. Kangshi Wang

June 30, 2015

Page 7 of 8

MCW-15c	1215	5/17/2015		<	10	36
MCW-15c	1215	5/18/2015		<	10	36
MCW-15c	1025	5/19/2015 ♦		=	20	37
MCW-15c	1025	5/20/2015		=	20	38
MCW-15c	1025	5/21/2015		=	20	37
MCW-15c	1025	5/22/2015		=	20	36
MCW-15c	1025	5/23/2015		=	20	36
MCW-15c	1025	5/24/2015		=	20	35
MCW-15c	1025	5/25/2015		=	20	34
MCW-15c	1000	5/26/2015 ♦		<	10	32
MCW-15c	1000	5/27/2015		<	10	31
MCW-15c	1000	5/28/2015		<	10	29
MCW-15c	1000	5/29/2015		<	10	27
MCW-15c	1000	5/30/2015		<	10	25
MCW-15c	1000	5/31/2015		<	10	24
MCW-17	-	5/1/2015	Dry	<	10	10
MCW-17	-	5/2/2015	Dry	<	10	10
MCW-17	-	5/3/2015	Dry	<	10	10
MCW-17	-	5/4/2015	Dry	<	10	10
MCW-17	-	5/5/2015 ♦	Dry	<	10	10
MCW-17	-	5/6/2015	Dry	<	10	10
MCW-17	-	5/7/2015	Dry	<	10	10
MCW-17	-	5/8/2015	Dry	<	10	10
MCW-17	-	5/9/2015	Dry	<	10	10
MCW-17	-	5/10/2015	Dry	<	10	10
MCW-17	-	5/11/2015	Dry	<	10	10
MCW-17	-	5/12/2015 ♦	Dry	<	10	10
MCW-17	-	5/13/2015	Dry	<	10	10
MCW-17	-	5/14/2015	Dry	<	10	10
MCW-17	-	5/15/2015	Dry	<	10	10
MCW-17	-	5/16/2015	Dry	<	10	10
MCW-17	-	5/17/2015	Dry	<	10	10
MCW-17	-	5/18/2015	Dry	<	10	10
MCW-17	-	5/19/2015 ♦	Dry	<	10	10
MCW-17	-	5/20/2015	Dry	<	10	10
MCW-17	-	5/21/2015	Dry	<	10	10
MCW-17	-	5/22/2015	Dry	<	10	10
MCW-17	-	5/23/2015	Dry	<	10	10
MCW-17	-	5/24/2015	Dry	<	10	10
MCW-17	-	5/25/2015	Dry	<	10	10
MCW-17	-	5/26/2015 ♦	Dry	<	10	10
MCW-17	-	5/27/2015	Dry	<	10	10
MCW-17	-	5/28/2015	Dry	<	10	10
MCW-17	-	5/29/2015	Dry	<	10	10
MCW-17	-	5/30/2015	Dry	<	10	10
MCW-17	-	5/31/2015	Dry	<	10	10
MCW-18	-	5/1/2015	Dry	<	10	10
MCW-18	-	5/2/2015	Dry	<	10	10



MCW-18	-	5/3/2015	Dry	<	10	10
MCW-18	-	5/4/2015	Dry	<	10	10
MCW-18	-	5/5/2015♦	Dry	<	10	10
MCW-18	-	5/6/2015	Dry	<	10	10
MCW-18	-	5/7/2015	Dry	<	10	10
MCW-18	-	5/8/2015	Dry	<	10	10
MCW-18	-	5/9/2015	Dry	<	10	10
MCW-18	-	5/10/2015	Dry	<	10	10
MCW-18	-	5/11/2015	Dry	<	10	10
MCW-18	-	5/12/2015♦	Dry	<	10	10
MCW-18	-	5/13/2015	Dry	<	10	10
MCW-18	-	5/14/2015	Dry	<	10	10
MCW-18	-	5/15/2015	Dry	<	10	10
MCW-18	-	5/16/2015	Dry	<	10	10
MCW-18	-	5/17/2015	Dry	<	10	10
MCW-18	-	5/18/2015	Dry	<	10	10
MCW-18	-	5/19/2015♦	Dry	<	10	10
MCW-18	-	5/20/2015	Dry	<	10	10
MCW-18	-	5/21/2015	Dry	<	10	10
MCW-18	-	5/22/2015	Dry	<	10	10
MCW-18	-	5/23/2015	Dry	<	10	10
MCW-18	-	5/24/2015	Dry	<	10	10
MCW-18	-	5/25/2015	Dry	<	10	10
MCW-18	-	5/26/2015♦	Dry	<	10	10
MCW-18	-	5/27/2015	Dry	<	10	10
MCW-18	-	5/28/2015	Dry	<	10	10
MCW-18	-	5/29/2015	Dry	<	10	10
MCW-18	-	5/30/2015	Dry	<	10	10
MCW-18	-	5/31/2015	Dry	<	10	10

Notes:

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 geomean. Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦ Date of sampling



county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

July 24, 2014

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
(213) 576-6780

Watershed Protection District
Tully Clifford, Director
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Janice Turner, Director

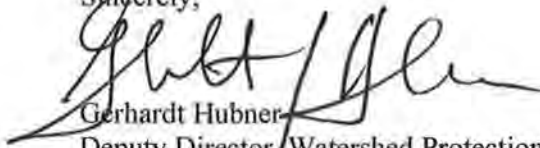
**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of June 2014. Sites were sampled weekly on Tuesdays (June 3, 10, 17 and 24). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles



Mr. Kangshi Wang

July 24, 2014

Page 2 of 7

Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample	
				E. coli (235 MPN)	Fecal (400 MPN)
MCW-8b	-	6/3/2014♦		Dry	Dry
MCW-8b	-	6/10/2014♦		Dry	Dry
MCW-8b	-	6/17/2014♦		Dry	Dry
MCW-8b	-	6/24/2014♦		Dry	Dry
MCW-9	-	6/3/2014♦		Dry	Dry
MCW-9	-	6/10/2014♦		Dry	Dry
MCW-9	-	6/17/2014♦		Dry	Dry
MCW-9	-	6/24/2014♦		Dry	Dry
MCW-12	1045	6/3/2014♦	=	60	60
MCW-12	1000	6/10/2014♦	=	20	20
MCW-12	1115	6/17/2014♦	=	20	40
MCW-12	1045	6/24/2014♦	=	20	20
MCW-14b	1015	6/3/2014♦	=	500	500
MCW-14b	930	6/10/2014♦	=	1,300	2,400
MCW-14b	1040	6/17/2014♦	=	5,000	5,000
MCW-14b	1010	6/24/2014♦	=	700	3,000
MCW-15c	950	6/3/2014♦	=	80	80
MCW-15c	850	6/10/2014♦	=	20	20
MCW-15c	1000	6/17/2014♦	=	800	800
MCW-15c	930	6/24/2014♦	=	20	20
MCW-17	-	6/3/2014♦		Dry	Dry
MCW-17	-	6/10/2014♦		Dry	Dry
MCW-17	-	6/17/2014♦		Dry	Dry
MCW-17	-	6/24/2014♦		Dry	Dry
MCW-18	-	6/3/2014♦		Dry	Dry
MCW-18	-	6/10/2014♦		Dry	Dry
MCW-18	-	6/17/2014♦		Dry	Dry
MCW-18	-	6/24/2014♦		Dry	Dry
MCW-8b	-	6/3/2014♦		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

Mr. Kangshi Wang

July 24, 2014

Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli	Fecal	E. coli	Fecal	
				(235 MPN)	(400 MPN)	(126 MPN)	(200 MPN)	
MCW-8b	-	6/1/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/2/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/3/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/4/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/5/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/6/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/7/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/8/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/9/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/10/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/11/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/12/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/13/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/14/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/15/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/16/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/17/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/18/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/19/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/20/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/21/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/22/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/23/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/24/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/25/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/26/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/27/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/28/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/29/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	6/30/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/1/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/2/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/3/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	6/4/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/5/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/6/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/7/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/8/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/9/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/10/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	6/11/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/12/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/13/2014	Dry	< 10	< 10	10	10	
MCW-9	-	6/14/2014	Dry	< 10	< 10	10	10	

Mr. Kangshi Wang

July 24, 2014

Page 4 of 7

MCW-9	-	6/15/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/17/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	6/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/21/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/22/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/24/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	6/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/28/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/29/2014	Dry	<	10	<	10	10	10
MCW-9	-	6/30/2014	Dry	<	10	<	10	10	10
MCW-12	1025	6/1/2014		=	140	=	140	71	85
MCW-12	1025	6/2/2014		=	140	=	140	75	91
MCW-12	1045	6/3/2014♦		=	60	=	60	78	94
MCW-12	1045	6/4/2014		=	60	=	60	81	97
MCW-12	1045	6/5/2014		=	60	=	60	75	91
MCW-12	1045	6/6/2014		=	60	=	60	70	85
MCW-12	1045	6/7/2014		=	60	=	60	65	79
MCW-12	1045	6/8/2014		=	60	=	60	61	73
MCW-12	1045	6/9/2014		=	60	=	60	57	68
MCW-12	1000	6/10/2014♦		=	20	=	20	51	61
MCW-12	1000	6/11/2014		=	20	=	20	46	55
MCW-12	1000	6/12/2014		=	20	=	20	46	55
MCW-12	1000	6/13/2014		=	20	=	20	46	55
MCW-12	1000	6/14/2014		=	20	=	20	46	55
MCW-12	1000	6/15/2014		=	20	=	20	46	55
MCW-12	1000	6/16/2014		=	20	=	20	46	55
MCW-12	1115	6/17/2014♦		=	20	=	40	46	56
MCW-12	1115	6/18/2014		=	20	=	40	46	58
MCW-12	1115	6/19/2014		=	20	=	40	45	56
MCW-12	1115	6/20/2014		=	20	=	40	44	55
MCW-12	1115	6/21/2014		=	20	=	40	43	54
MCW-12	1115	6/22/2014		=	20	=	40	42	53
MCW-12	1115	6/23/2014		=	20	=	40	41	52
MCW-12	1045	6/24/2014♦		=	20	=	20	40	49
MCW-12	1045	6/25/2014		=	20	=	20	39	47
MCW-12	1045	6/26/2014		=	20	=	20	38	45
MCW-12	1045	6/27/2014		=	20	=	20	36	42
MCW-12	1045	6/28/2014		=	20	=	20	33	39
MCW-12	1045	6/29/2014		=	20	=	20	31	37
MCW-12	1045	6/30/2014		=	20	=	20	29	35
MCW-14b	955	6/1/2014		=	800	=	800	639	657
MCW-14b	955	6/2/2014		=	800	=	800	666	678

Mr. Kangshi Wang

July 24, 2014

Page 5 of 7

MCW-14b	1015	6/3/2014◆	=	500	=	500	684	690
MCW-14b	1015	6/4/2014	=	500	=	500	702	702
MCW-14b	1015	6/5/2014	=	500	=	500	728	728
MCW-14b	1015	6/6/2014	=	500	=	500	754	754
MCW-14b	1015	6/7/2014	=	500	=	500	782	782
MCW-14b	1015	6/8/2014	=	500	=	500	810	810
MCW-14b	1015	6/9/2014	=	500	=	500	840	840
MCW-14b	930	6/10/2014◆	=	1,300	=	2,400	899	918
MCW-14b	930	6/11/2014	=	1,300	=	2,400	962	1,002
MCW-14b	930	6/12/2014	=	1,300	=	2,400	982	1,044
MCW-14b	930	6/13/2014	=	1,300	=	2,400	1,003	1,088
MCW-14b	930	6/14/2014	=	1,300	=	2,400	1,024	1,134
MCW-14b	930	6/15/2014	=	1,300	=	2,400	1,045	1,181
MCW-14b	930	6/16/2014	=	1,300	=	2,400	1,067	1,231
MCW-14b	1040	6/17/2014◆	=	5,000	=	5,000	1,139	1,314
MCW-14b	1040	6/18/2014	=	5,000	=	5,000	1,216	1,403
MCW-14b	1040	6/19/2014	=	5,000	=	5,000	1,246	1,438
MCW-14b	1040	6/20/2014	=	5,000	=	5,000	1,277	1,473
MCW-14b	1040	6/21/2014	=	5,000	=	5,000	1,309	1,510
MCW-14b	1040	6/22/2014	=	5,000	=	5,000	1,341	1,547
MCW-14b	1040	6/23/2014	=	5,000	=	5,000	1,374	1,586
MCW-14b	1010	6/24/2014◆	=	700	=	3,000	1,319	1,597
MCW-14b	1010	6/25/2014	=	700	=	3,000	1,266	1,609
MCW-14b	1010	6/26/2014	=	700	=	3,000	1,215	1,621
MCW-14b	1010	6/27/2014	=	700	=	3,000	1,210	1,694
MCW-14b	1010	6/28/2014	=	700	=	3,000	1,204	1,771
MCW-14b	1010	6/29/2014	=	700	=	3,000	1,199	1,851
MCW-14b	1010	6/30/2014	=	700	=	3,000	1,194	1,934
MCW-15c	925	6/1/2014	=	80	=	80	350	350
MCW-15c	925	6/2/2014	=	80	=	80	329	329
MCW-15c	950	6/3/2014◆	=	80	=	80	310	310
MCW-15c	950	6/4/2014	=	80	=	80	292	292
MCW-15c	950	6/5/2014	=	80	=	80	258	258
MCW-15c	950	6/6/2014	=	80	=	80	229	229
MCW-15c	950	6/7/2014	=	80	=	80	203	203
MCW-15c	950	6/8/2014	=	80	=	80	180	180
MCW-15c	950	6/9/2014	=	80	=	80	159	159
MCW-15c	850	6/10/2014◆	=	20	=	20	135	135
MCW-15c	850	6/11/2014	=	20	=	20	114	114
MCW-15c	850	6/12/2014	=	20	=	20	105	105
MCW-15c	850	6/13/2014	=	20	=	20	97	97
MCW-15c	850	6/14/2014	=	20	=	20	89	89
MCW-15c	850	6/15/2014	=	20	=	20	82	82
MCW-15c	850	6/16/2014	=	20	=	20	76	76
MCW-15c	1000	6/17/2014◆	=	800	=	800	79	79
MCW-15c	1000	6/18/2014	=	800	=	800	83	83
MCW-15c	1000	6/19/2014	=	800	=	800	87	87
MCW-15c	1000	6/20/2014	=	800	=	800	91	91
MCW-15c	1000	6/21/2014	=	800	=	800	96	96
MCW-15c	1000	6/22/2014	=	800	=	800	101	101

Mr. Kangshi Wang

July 24, 2014

Page 6 of 7

MCW-15c	1000	6/23/2014		=	800	=	800	107	107
MCW-15c	930	6/24/2014◆		=	20	=	20	99	99
MCW-15c	930	6/25/2014		=	20	=	20	93	93
MCW-15c	930	6/26/2014		=	20	=	20	86	86
MCW-15c	930	6/27/2014		=	20	=	20	82	82
MCW-15c	930	6/28/2014		=	20	=	20	79	79
MCW-15c	930	6/29/2014		=	20	=	20	75	75
MCW-15c	930	6/30/2014		=	20	=	20	72	72
MCW-17	-	6/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/3/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	6/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/7/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/8/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/10/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	6/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/12/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/14/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/15/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/17/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	6/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/19/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/21/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/22/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/24/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	6/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/28/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/29/2014	Dry	<	10	<	10	10	10
MCW-17	-	6/30/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/3/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	6/4/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/5/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/6/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/7/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/8/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/9/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/10/2014◆	Dry	<	10	<	10	10	10

Mr. Kangshi Wang

July 24, 2014

Page 7 of 7

MCW-18	-	6/11/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/12/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/13/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/14/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/15/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/16/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/17/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	6/18/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/19/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/20/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/21/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/22/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/23/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/24/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	6/25/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/26/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/27/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/28/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/29/2014	Dry	<	10	<	10	10	10
MCW-18	-	6/30/2014	Dry	<	10	<	10	10	10

Notes:

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 geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

August 26, 2014

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
(213) 576-6780

Watershed Protection District
Tully Clifford, Director
Transportation Department
David Fleisch, Director
Engineering Services Department
Herb Schwind, Director
Water & Sanitation Department
R. Reddy Pakala, Director
Central Services Department
Janice Turner, Director

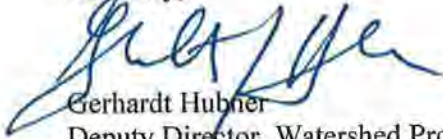
**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of July 2014. Sites were sampled weekly on Tuesdays (July 8, 15, 22 and 29), except for one instance when sites were sampled on Wednesday (July 2) due to staffing conflicts. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles



Mr. Kangshi Wang
 August 26, 2014
 Page 2 of 7

Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample		(as sampled)	
				E. coli (235 MPN)		Fecal (400 MPN)	
MCW-8b	-	7/2/2014♦		Dry		Dry	
MCW-8b	-	7/8/2014♦		Dry		Dry	
MCW-8b	-	7/15/2014♦		Dry		Dry	
MCW-8b	-	7/22/2014♦		Dry		Dry	
MCW-8b		7/29/2014♦		Dry		Dry	
MCW-9	-	7/2/2014♦		Dry		Dry	
MCW-9	-	7/8/2014♦		Dry		Dry	
MCW-9	-	7/15/2014♦		Dry		Dry	
MCW-9	-	7/22/2014♦		Dry		Dry	
MCW-9		7/29/2014♦		Dry		Dry	
MCW-12	1055	7/2/2014♦	=	110	=	170	
MCW-12	-	7/8/2014♦		Dry		Dry	
MCW-12	-	7/15/2014♦		Dry		Dry	
MCW-12	-	7/22/2014♦		Dry		Dry	
MCW-12	-	7/29/2014♦		Dry		Dry	
MCW-14b	1035	7/2/2014♦	=	130	=	1,100	
MCW-14b	130	7/8/2014♦	=	700	=	1,100	
MCW-14b	1045	7/15/2014♦	=	800	=	1,100	
MCW-14b	115	7/22/2014♦	=	270	=	1,700	
MCW-14b	1045	7/29/2014♦	=	800	=	800	
MCW-15c	1000	7/2/2014♦	=	16,000	=	16,000	
MCW-15c	155	7/8/2014♦	=	300	=	300	
MCW-15c	1015	7/15/2014♦	=	1,300	=	1,300	
MCW-15c	1120	7/22/2014♦	=	9,000	=	9,000	
MCW-15c	845	7/29/2014♦	=	1,300	=	1,300	
MCW-17	-	7/2/2014♦		Dry		Dry	
MCW-17	-	7/8/2014♦		Dry		Dry	
MCW-17	-	7/15/2014♦		Dry		Dry	
MCW-17	-	7/22/2014♦		Dry		Dry	
MCW-17	-	7/29/2014♦		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

Mr. Kangshi Wang
 August 26, 2014
 Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)	
MCW-8b	-	7/1/2014	Dry	<	10	<	10	10
MCW-8b	-	7/2/2014◆	Dry	<	10	<	10	10
MCW-8b	-	7/3/2014	Dry	<	10	<	10	10
MCW-8b	-	7/4/2014	Dry	<	10	<	10	10
MCW-8b	-	7/5/2014	Dry	<	10	<	10	10
MCW-8b	-	7/6/2014	Dry	<	10	<	10	10
MCW-8b	-	7/7/2014	Dry	<	10	<	10	10
MCW-8b	-	7/8/2014◆	Dry	<	10	<	10	10
MCW-8b	-	7/9/2014	Dry	<	10	<	10	10
MCW-8b	-	7/10/2014	Dry	<	10	<	10	10
MCW-8b	-	7/11/2014	Dry	<	10	<	10	10
MCW-8b	-	7/12/2014	Dry	<	10	<	10	10
MCW-8b	-	7/13/2014	Dry	<	10	<	10	10
MCW-8b	-	7/14/2014	Dry	<	10	<	10	10
MCW-8b	-	7/15/2014◆	Dry	<	10	<	10	10
MCW-8b	-	7/16/2014	Dry	<	10	<	10	10
MCW-8b	-	7/17/2014	Dry	<	10	<	10	10
MCW-8b	-	7/18/2014	Dry	<	10	<	10	10
MCW-8b	-	7/19/2014	Dry	<	10	<	10	10
MCW-8b	-	7/20/2014	Dry	<	10	<	10	10
MCW-8b	-	7/21/2014	Dry	<	10	<	10	10
MCW-8b	-	7/22/2014◆	Dry	<	10	<	10	10
MCW-8b	-	7/23/2014	Dry	<	10	<	10	10
MCW-8b	-	7/24/2014	Dry	<	10	<	10	10
MCW-8b	-	7/25/2014	Dry	<	10	<	10	10
MCW-8b	-	7/26/2014	Dry	<	10	<	10	10
MCW-8b	-	7/27/2014	Dry	<	10	<	10	10
MCW-8b	-	7/28/2014	Dry	<	10	<	10	10
MCW-8b	-	7/29/2014◆	Dry	<	10	<	10	10
MCW-8b	-	7/30/2014	Dry	<	10	<	10	10
MCW-8b	-	7/31/2014	Dry	<	10	<	10	10
MCW-9	-	7/1/2014	Dry	<	10	<	10	10
MCW-9	-	7/2/2014◆	Dry	<	10	<	10	10
MCW-9	-	7/3/2014	Dry	<	10	<	10	10
MCW-9	-	7/4/2014	Dry	<	10	<	10	10
MCW-9	-	7/5/2014	Dry	<	10	<	10	10
MCW-9	-	7/6/2014	Dry	<	10	<	10	10
MCW-9	-	7/7/2014	Dry	<	10	<	10	10
MCW-9	-	7/8/2014◆	Dry	<	10	<	10	10
MCW-9	-	7/9/2014	Dry	<	10	<	10	10
MCW-9	-	7/10/2014	Dry	<	10	<	10	10
MCW-9	-	7/11/2014	Dry	<	10	<	10	10
MCW-9	-	7/12/2014	Dry	<	10	<	10	10
MCW-9	-	7/13/2014	Dry	<	10	<	10	10

Mr. Kangshi Wang
 August 26, 2014
 Page 4 of 7

MCW-9	-	7/14/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/15/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	7/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/21/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/22/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	7/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/28/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/29/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	7/30/2014	Dry	<	10	<	10	10	10
MCW-9	-	7/31/2014	Dry	<	10	<	10	10	10
MCW-12	1045	7/1/2014		=	20	=	20	28	32
MCW-12	1055	7/2/2014◆		=	110	=	170	27	33
MCW-12	1055	7/3/2014		=	111	=	171	28	34
MCW-12	1055	7/4/2014		=	112	=	172	29	35
MCW-12	1055	7/5/2014		=	113	=	173	29	36
MCW-12	1055	7/6/2014		=	114	=	174	30	38
MCW-12	1055	7/7/2014		=	115	=	175	30	39
MCW-12	-	7/8/2014◆	Dry	<	10	<	10	29	37
MCW-12	-	7/9/2014	Dry	<	10	<	10	27	35
MCW-12	-	7/10/2014	Dry	<	10	<	10	26	34
MCW-12	-	7/11/2014	Dry	<	10	<	10	26	33
MCW-12	-	7/12/2014	Dry	<	10	<	10	25	32
MCW-12	-	7/13/2014	Dry	<	10	<	10	25	31
MCW-12	-	7/14/2014	Dry	<	10	<	10	24	31
MCW-12	-	7/15/2014◆	Dry	<	10	<	10	23	30
MCW-12	-	7/16/2014	Dry	<	10	<	10	23	29
MCW-12	-	7/17/2014	Dry	<	10	<	10	22	28
MCW-12	-	7/18/2014	Dry	<	10	<	10	22	27
MCW-12	-	7/19/2014	Dry	<	10	<	10	21	26
MCW-12	-	7/20/2014	Dry	<	10	<	10	21	24
MCW-12	-	7/21/2014	Dry	<	10	<	10	20	23
MCW-12	-	7/22/2014◆	Dry	<	10	<	10	20	22
MCW-12	-	7/23/2014	Dry	<	10	<	10	20	21
MCW-12	-	7/24/2014	Dry	<	10	<	10	19	21
MCW-12	-	7/25/2014	Dry	<	10	<	10	19	20
MCW-12	-	7/26/2014	Dry	<	10	<	10	18	20
MCW-12	-	7/27/2014	Dry	<	10	<	10	18	19
MCW-12	-	7/28/2014	Dry	<	10	<	10	17	19
MCW-12	-	7/29/2014◆	Dry	<	10	<	10	17	19
MCW-12	-	7/30/2014	Dry	<	10	<	10	17	18
MCW-12	-	7/31/2014	Dry	<	10	<	10	16	18

Mr. Kangshi Wang
 August 26, 2014
 Page 5 of 7

MCW-14b	1010	7/1/2014	=	700	=	3,000	1,188	2,021
MCW-14b	1035	7/2/2014◆	=	130	=	1,100	1,118	2,043
MCW-14b	1035	7/3/2014	=	130	=	1,100	1,069	2,097
MCW-14b	1035	7/4/2014	=	130	=	1,100	1,022	2,153
MCW-14b	1035	7/5/2014	=	130	=	1,100	977	2,210
MCW-14b	1035	7/6/2014	=	130	=	1,100	935	2,269
MCW-14b	1035	7/7/2014	=	130	=	1,100	893	2,329
MCW-14b	130	7/8/2014◆	=	700	=	1,100	904	2,391
MCW-14b	130	7/9/2014	=	700	=	1,100	914	2,455
MCW-14b	130	7/10/2014	=	700	=	1,100	895	2,392
MCW-14b	130	7/11/2014	=	700	=	1,100	877	2,331
MCW-14b	130	7/12/2014	=	700	=	1,100	859	2,271
MCW-14b	130	7/13/2014	=	700	=	1,100	841	2,213
MCW-14b	130	7/14/2014	=	700	=	1,100	824	2,156
MCW-14b	1045	7/15/2014◆	=	800	=	1,100	811	2,100
MCW-14b	1045	7/16/2014	=	800	=	1,100	798	2,047
MCW-14b	1045	7/17/2014	=	800	=	1,100	751	1,946
MCW-14b	1045	7/18/2014	=	800	=	1,100	706	1,850
MCW-14b	1045	7/19/2014	=	800	=	1,100	664	1,759
MCW-14b	1045	7/20/2014	=	800	=	1,100	625	1,672
MCW-14b	1045	7/21/2014	=	800	=	1,100	588	1,590
MCW-14b	115	7/22/2014◆	=	270	=	1,700	533	1,534
MCW-14b	115	7/23/2014	=	270	=	1,700	484	1,480
MCW-14b	115	7/24/2014	=	270	=	1,700	469	1,452
MCW-14b	115	7/25/2014	=	270	=	1,700	454	1,425
MCW-14b	115	7/26/2014	=	270	=	1,700	440	1,398
MCW-14b	115	7/27/2014	=	270	=	1,700	426	1,372
MCW-14b	115	7/28/2014	=	270	=	1,700	413	1,346
MCW-14b	1045	7/29/2014◆	=	800	=	800	415	1,288
MCW-14b	1045	7/30/2014	=	800	=	800	417	1,233
MCW-14b	1045	7/31/2014	=	800	=	800	418	1,179
MCW-15c	930	7/1/2014	=	20	=	20	68	68
MCW-15c	1000	7/2/2014◆	=	16,000	=	16,000	82	82
MCW-15c	1000	7/3/2014	=	16,000	=	16,000	97	97
MCW-15c	1000	7/4/2014	=	16,000	=	16,000	116	116
MCW-15c	1000	7/5/2014	=	16,000	=	16,000	139	139
MCW-15c	1000	7/6/2014	=	16,000	=	16,000	166	166
MCW-15c	1000	7/7/2014	=	16,000	=	16,000	198	198
MCW-15c	155	7/8/2014◆	=	300	=	300	206	206
MCW-15c	155	7/9/2014	=	300	=	300	216	216
MCW-15c	155	7/10/2014	=	300	=	300	236	236
MCW-15c	155	7/11/2014	=	300	=	300	258	258
MCW-15c	155	7/12/2014	=	300	=	300	283	283
MCW-15c	155	7/13/2014	=	300	=	300	310	310
MCW-15c	155	7/14/2014	=	300	=	300	339	339
MCW-15c	1015	7/15/2014◆	=	1,300	=	1,300	389	389
MCW-15c	1015	7/16/2014	=	1,300	=	1,300	447	447
MCW-15c	1015	7/17/2014	=	1,300	=	1,300	455	455
MCW-15c	1015	7/18/2014	=	1,300	=	1,300	462	462

Mr. Kangshi Wang
 August 26, 2014
 Page 6 of 7

MCW-15c	1015	7/19/2014		=	1,300	=	1,300	470	470
MCW-15c	1015	7/20/2014		=	1,300	=	1,300	477	477
MCW-15c	1015	7/21/2014		=	1,300	=	1,300	485	485
MCW-15c	1120	7/22/2014◆		=	9,000	=	9,000	526	526
MCW-15c	1120	7/23/2014		=	9,000	=	9,000	570	570
MCW-15c	1120	7/24/2014		=	9,000	=	9,000	699	699
MCW-15c	1120	7/25/2014		=	9,000	=	9,000	857	857
MCW-15c	1120	7/26/2014		=	9,000	=	9,000	1,050	1,050
MCW-15c	1120	7/27/2014		=	9,000	=	9,000	1,287	1,287
MCW-15c	1120	7/28/2014		=	9,000	=	9,000	1,578	1,578
MCW-15c	845	7/29/2014◆		=	1,300	=	1,300	1,814	1,814
MCW-15c	845	7/30/2014		=	1,300	=	1,300	2,085	2,085
MCW-15c	845	7/31/2014		=	1,300	=	1,300	2,396	2,396
MCW-17	-	7/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/2/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	7/3/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/7/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/8/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	7/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/12/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/14/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/15/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	7/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/19/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/21/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/22/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	7/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/28/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/29/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	7/30/2014	Dry	<	10	<	10	10	10
MCW-17	-	7/31/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/2/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	7/3/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/4/2014	Dry	<	10	<	10	10	10

Mr. Kangshi Wang

August 26, 2014

Page 7 of 7

MCW-18	-	7/5/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/6/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/7/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/8/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	7/9/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/10/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/11/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/12/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/13/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/14/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/15/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	7/16/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/17/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/18/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/19/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/20/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/21/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/22/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	7/23/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/24/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/25/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/26/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/27/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/28/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/29/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	7/30/2014	Dry	<	10	<	10	10	10
MCW-18	-	7/31/2014	Dry	<	10	<	10	10	10

Notes:

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 geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

September 26, 2014

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
(213) 576-6780

Watershed Protection District
Tully Clifford, Director
Transportation Department
David Fleisch, Director
Engineering Services Department
Herb Schwind, Director
Water & Sanitation Department
R. Reddy Pakala, Director
Central Services Department
Janice Turner, Director

**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of August 2014. Sites were sampled weekly on Tuesdays (August 5, 12, 19 and 26). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Huler
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles



Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample		(as sampled)	
				E. coli (235 MPN)		Fecal (400 MPN)	
MCW-8b	-	8/5/2014♦			Dry		Dry
MCW-8b	-	8/12/2014♦			Dry		Dry
MCW-8b	-	8/19/2014♦			Dry		Dry
MCW-8b	-	8/26/2014♦			Dry		Dry
MCW-9	-	8/5/2014♦			Dry		Dry
MCW-9	-	8/12/2014♦			Dry		Dry
MCW-9	-	8/19/2014♦			Dry		Dry
MCW-9	-	8/26/2014♦			Dry		Dry
MCW-12	-	8/5/2014♦			Dry		Dry
MCW-12	-	8/12/2014♦			Dry		Dry
MCW-12	-	8/19/2014♦			Dry		Dry
MCW-12	-	8/26/2014♦			Dry		Dry
MCW-14b	150	8/5/2014♦	=	1,700	=	2,200	
MCW-14b	1100	8/12/2014♦	=	400	=	800	
MCW-14b	1230	8/19/2014♦	=	300	=	300	
MCW-14b	145	8/26/2014♦	=	2,400	=	2,400	
MCW-15c	110	8/5/2014♦	=	2,200	=	2,200	
MCW-15c	1010	8/12/2014♦	=	1,100	=	1,100	
MCW-15c	115	8/19/2014♦	=	210	=	210	
MCW-15c	230	8/26/2014♦	=	800	=	3,000	
MCW-17	-	8/5/2014♦			Dry		Dry
MCW-17	-	8/12/2014♦			Dry		Dry
MCW-17	-	8/19/2014♦			Dry		Dry
MCW-17	-	8/26/2014♦			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

Mr. Kangshi Wang
 September 26, 2014
 Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli	Fecal	E. coli	Fecal	
				(235 MPN)	(400 MPN)	(126 MPN)	(200 MPN)	
MCW-8b	-	8/1/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/2/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/3/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/4/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/5/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	8/6/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/7/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/8/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/9/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/10/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/11/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/12/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	8/13/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/14/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/15/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/16/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/17/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/18/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/19/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	8/20/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/21/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/22/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/23/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/24/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/25/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/26/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	8/27/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/28/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/29/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/30/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	8/31/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/1/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/2/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/3/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/4/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/5/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	8/6/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/7/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/8/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/9/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/10/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/11/2014	Dry	< 10	< 10	10	10	
MCW-9	-	8/12/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	8/13/2014	Dry	< 10	< 10	10	10	

MCW-9	-	8/14/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/15/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/19/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	8/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/21/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/22/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/26/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	8/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/28/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/29/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/30/2014	Dry	<	10	<	10	10	10
MCW-9	-	8/31/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/1/2014	Dry	<	10	<	10	15	16
MCW-12	-	8/2/2014	Dry	<	10	<	10	14	15
MCW-12	-	8/3/2014	Dry	<	10	<	10	13	13
MCW-12	-	8/4/2014	Dry	<	10	<	10	12	12
MCW-12	-	8/5/2014♦	Dry	<	10	<	10	11	11
MCW-12	-	8/6/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/7/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/8/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/9/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/10/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/11/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/12/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	8/13/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/14/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/15/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/16/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/17/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/18/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/19/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	8/20/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/21/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/22/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/23/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/24/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/25/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/26/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	8/27/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/28/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/29/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/30/2014	Dry	<	10	<	10	10	10
MCW-12	-	8/31/2014	Dry	<	10	<	10	10	10

MCW-14b	1045	8/1/2014	=	800	=	800	445	1,167
MCW-14b	1045	8/2/2014	=	800	=	800	472	1,155
MCW-14b	1045	8/3/2014	=	800	=	800	502	1,142
MCW-14b	1045	8/4/2014	=	800	=	800	533	1,130
MCW-14b	150	8/5/2014♦	=	1,700	=	2,200	581	1,157
MCW-14b	150	8/6/2014	=	1,700	=	2,200	633	1,184
MCW-14b	150	8/7/2014	=	1,700	=	2,200	652	1,212
MCW-14b	150	8/8/2014	=	1,700	=	2,200	671	1,240
MCW-14b	150	8/9/2014	=	1,700	=	2,200	692	1,269
MCW-14b	150	8/10/2014	=	1,700	=	2,200	712	1,298
MCW-14b	150	8/11/2014	=	1,700	=	2,200	734	1,329
MCW-14b	1100	8/12/2014♦	=	400	=	800	720	1,315
MCW-14b	1100	8/13/2014	=	400	=	800	707	1,301
MCW-14b	1100	8/14/2014	=	400	=	800	691	1,287
MCW-14b	1100	8/15/2014	=	400	=	800	675	1,274
MCW-14b	1100	8/16/2014	=	400	=	800	660	1,260
MCW-14b	1100	8/17/2014	=	400	=	800	644	1,247
MCW-14b	1100	8/18/2014	=	400	=	800	630	1,234
MCW-14b	1230	8/19/2014♦	=	300	=	300	609	1,181
MCW-14b	1230	8/20/2014	=	300	=	300	590	1,131
MCW-14b	1230	8/21/2014	=	300	=	300	592	1,068
MCW-14b	1230	8/22/2014	=	300	=	300	594	1,008
MCW-14b	1230	8/23/2014	=	300	=	300	596	951
MCW-14b	1230	8/24/2014	=	300	=	300	598	898
MCW-14b	1230	8/25/2014	=	300	=	300	600	847
MCW-14b	145	8/26/2014♦	=	2,400	=	2,400	646	857
MCW-14b	145	8/27/2014	=	2,400	=	2,400	694	867
MCW-14b	145	8/28/2014	=	2,400	=	2,400	720	899
MCW-14b	145	8/29/2014	=	2,400	=	2,400	747	933
MCW-14b	145	8/30/2014	=	2,400	=	2,400	775	968
MCW-14b	145	8/31/2014	=	2,400	=	2,400	804	1,004
MCW-15c	845	8/1/2014	=	1,300	=	1,300	2,204	2,204
MCW-15c	845	8/2/2014	=	1,300	=	1,300	2,027	2,027
MCW-15c	845	8/3/2014	=	1,300	=	1,300	1,864	1,864
MCW-15c	845	8/4/2014	=	1,300	=	1,300	1,714	1,714
MCW-15c	110	8/5/2014♦	=	2,200	=	2,200	1,605	1,605
MCW-15c	110	8/6/2014	=	2,200	=	2,200	1,502	1,502
MCW-15c	110	8/7/2014	=	2,200	=	2,200	1,605	1,605
MCW-15c	110	8/8/2014	=	2,200	=	2,200	1,715	1,715
MCW-15c	110	8/9/2014	=	2,200	=	2,200	1,833	1,833
MCW-15c	110	8/10/2014	=	2,200	=	2,200	1,959	1,959
MCW-15c	110	8/11/2014	=	2,200	=	2,200	2,093	2,093
MCW-15c	1010	8/12/2014♦	=	1,100	=	1,100	2,186	2,186
MCW-15c	1010	8/13/2014	=	1,100	=	1,100	2,283	2,283
MCW-15c	1010	8/14/2014	=	1,100	=	1,100	2,270	2,270
MCW-15c	1010	8/15/2014	=	1,100	=	1,100	2,258	2,258
MCW-15c	1010	8/16/2014	=	1,100	=	1,100	2,245	2,245
MCW-15c	1010	8/17/2014	=	1,100	=	1,100	2,233	2,233
MCW-15c	1010	8/18/2014	=	1,100	=	1,100	2,220	2,220

MCW-15c	115	8/19/2014◆		=	210	=	210	2,089	2,089
MCW-15c	115	8/20/2014		=	210	=	210	1,966	1,966
MCW-15c	115	8/21/2014		=	210	=	210	1,735	1,735
MCW-15c	115	8/22/2014		=	210	=	210	1,530	1,530
MCW-15c	115	8/23/2014		=	210	=	210	1,350	1,350
MCW-15c	115	8/24/2014		=	210	=	210	1,191	1,191
MCW-15c	115	8/25/2014		=	210	=	210	1,051	1,051
MCW-15c	230	8/26/2014◆		=	800	=	3,000	970	1,013
MCW-15c	230	8/27/2014		=	800	=	3,000	894	977
MCW-15c	230	8/28/2014		=	800	=	3,000	880	1,004
MCW-15c	230	8/29/2014		=	800	=	3,000	866	1,033
MCW-15c	230	8/30/2014		=	800	=	3,000	852	1,062
MCW-15c	230	8/31/2014		=	800	=	3,000	838	1,092
MCW-17	-	8/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/3/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/5/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	8/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/7/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/8/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/12/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	8/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/14/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/15/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/19/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	8/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/21/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/22/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/26/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	8/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/28/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/29/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/30/2014	Dry	<	10	<	10	10	10
MCW-17	-	8/31/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/3/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/4/2014	Dry	<	10	<	10	10	10

MCW-18	-	8/5/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	8/6/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/7/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/8/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/9/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/10/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/11/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/12/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	8/13/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/14/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/15/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/16/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/17/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/18/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/19/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	8/20/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/21/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/22/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/23/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/24/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/25/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/26/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	8/27/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/28/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/29/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/30/2014	Dry	<	10	<	10	10	10
MCW-18	-	8/31/2014	Dry	<	10	<	10	10	10

Notes:

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 geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

◆Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

October 20, 2014

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
(213) 576-6780

Watershed Protection District
Tully K. Clifford, Director
Transportation Department
David L. Fleisch, Director
Engineering Services Department
Herbert L. Schwind, Director
Water & Sanitation Department
David J. Sasek, Director
Central Services Department
Janice E. Turner, Director

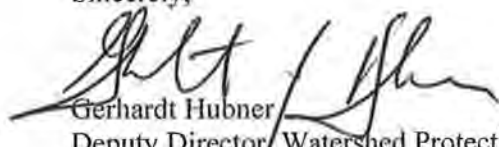
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of September 2014. Sites were sampled weekly on Tuesdays (September 9, 16, 23 and 30), except for one instance when sites were sampled on Wednesday (September 3) due to staffing conflicts. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,


Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles



Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample (as sampled)		
				E. coli (235 MPN)		Fecal (400 MPN)
MCW-8b	-	9/3/2014♦		Dry		Dry
MCW-8b	-	9/9/2014♦		Dry		Dry
MCW-8b	-	9/16/2014♦		Dry		Dry
MCW-8b	-	9/23/2014♦		Dry		Dry
MCW-8b	-	9/30/2014♦		Dry		Dry
MCW-9	-	9/3/2014♦		Dry		Dry
MCW-9	-	9/9/2014♦		Dry		Dry
MCW-9	-	9/16/2014♦		Dry		Dry
MCW-9	-	9/23/2014♦		Dry		Dry
MCW-9	-	9/30/2014♦		Dry		Dry
MCW-12	-	9/3/2014♦		Dry		Dry
MCW-12	-	9/9/2014♦		Dry		Dry
MCW-12	-	9/16/2014♦		Dry		Dry
MCW-12	-	9/23/2014♦		Dry		Dry
MCW-12	-	9/30/2014♦		Dry		Dry
MCW-14b	950	9/3/2014♦	=	220	=	220
MCW-14b	955	9/9/2014♦	=	500	=	800
MCW-14b	955	9/16/2014♦	=	20	=	20
MCW-14b	1000	9/23/2014♦	=	40	=	40
MCW-14b	1110	9/30/2014♦	=	500	=	800
MCW-15c	910	9/3/2014♦	<	20	=	70
MCW-15c	840	9/9/2014♦	<	20	<	20
MCW-15c	930	9/16/2014♦	<	20	<	20
MCW-15c	935	9/23/2014♦	=	170	=	500
MCW-15c	1030	9/30/2014♦	=	270	=	3,000
MCW-17	-	9/3/2014♦		Dry		Dry
MCW-17	-	9/9/2014♦		Dry		Dry
MCW-17	-	9/16/2014♦		Dry		Dry
MCW-17	-	9/23/2014♦		Dry		Dry
MCW-17	-	9/30/2014♦		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

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli	Fecal	E. coli	Fecal	
				(235 MPN)	(400 MPN)	(126 MPN)	(200 MPN)	
MCW-8b	-	9/1/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/2/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/3/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	9/4/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/5/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/6/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/7/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/8/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/9/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	9/10/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/11/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/12/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/13/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/14/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/15/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/16/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	9/17/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/18/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/19/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/20/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/21/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/22/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/23/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	9/24/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/25/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/26/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/27/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/28/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/29/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	9/30/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	9/1/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/2/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/3/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	9/4/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/5/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/6/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/7/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/8/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/9/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	9/10/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/11/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/12/2014	Dry	< 10	< 10	10	10	
MCW-9	-	9/13/2014	Dry	< 10	< 10	10	10	

October 20, 2014

Page 4 of 7

MCW-9	-	9/14/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/15/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/16/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	9/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/21/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/22/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/23/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	9/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/28/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/29/2014	Dry	<	10	<	10	10	10
MCW-9	-	9/30/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	9/1/2014	Dry	<	10	<	10	15	16
MCW-12	-	9/2/2014	Dry	<	10	<	10	14	15
MCW-12	-	9/3/2014♦	Dry	<	10	<	10	13	13
MCW-12	-	9/4/2014	Dry	<	10	<	10	12	12
MCW-12	-	9/5/2014	Dry	<	10	<	10	11	11
MCW-12	-	9/6/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/7/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/8/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/9/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	9/10/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/11/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/12/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/13/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/14/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/15/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/16/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	9/17/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/18/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/19/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/20/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/21/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/22/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/23/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	9/24/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/25/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/26/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/27/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/28/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/29/2014	Dry	<	10	<	10	10	10
MCW-12	-	9/30/2014♦	Dry	<	10	<	10	10	10

Mr. Kangshi Wang

October 20, 2014

Page 5 of 7

MCW-14b	145	9/1/2014	=	2,400	=	2,400	834	1,041
MCW-14b	145	9/2/2014	=	2,400	=	2,400	865	1,080
MCW-14b	950	9/3/2014♦	=	220	=	220	829	1,035
MCW-14b	950	9/4/2014	=	220	=	220	774	958
MCW-14b	950	9/5/2014	=	220	=	220	723	887
MCW-14b	950	9/6/2014	=	220	=	220	675	822
MCW-14b	950	9/7/2014	=	220	=	220	631	761
MCW-14b	950	9/8/2014	=	220	=	220	589	705
MCW-14b	955	9/9/2014♦	=	500	=	800	566	681
MCW-14b	955	9/10/2014	=	500	=	800	543	659
MCW-14b	955	9/11/2014	=	500	=	800	547	659
MCW-14b	955	9/12/2014	=	500	=	800	551	659
MCW-14b	955	9/13/2014	=	500	=	800	555	659
MCW-14b	955	9/14/2014	=	500	=	800	560	659
MCW-14b	955	9/15/2014	=	500	=	800	564	659
MCW-14b	955	9/16/2014♦	=	20	=	20	510	583
MCW-14b	955	9/17/2014	=	20	=	20	462	515
MCW-14b	955	9/18/2014	=	20	=	20	422	471
MCW-14b	955	9/19/2014	=	20	=	20	385	430
MCW-14b	955	9/20/2014	=	20	=	20	352	393
MCW-14b	955	9/21/2014	=	20	=	20	322	359
MCW-14b	955	9/22/2014	=	20	=	20	294	328
MCW-14b	1000	9/23/2014♦	=	40	=	40	275	307
MCW-14b	1000	9/24/2014	=	40	=	40	257	287
MCW-14b	1000	9/25/2014	=	40	=	40	224	250
MCW-14b	1000	9/26/2014	=	40	=	40	196	218
MCW-14b	1000	9/27/2014	=	40	=	40	171	190
MCW-14b	1000	9/28/2014	=	40	=	40	149	166
MCW-14b	1000	9/29/2014	=	40	=	40	130	145
MCW-14b	1110	9/30/2014♦	=	500	=	800	123	140
MCW-15c	230	9/1/2014	=	800	=	3,000	825	1,123
MCW-15c	230	9/2/2014	=	800	=	3,000	812	1,155
MCW-15c	910	9/3/2014♦	<	10	=	70	690	1,047
MCW-15c	910	9/4/2014	<	10	=	70	577	934
MCW-15c	910	9/5/2014	<	10	=	70	482	832
MCW-15c	910	9/6/2014	<	10	=	70	402	742
MCW-15c	910	9/7/2014	<	10	=	70	336	661
MCW-15c	910	9/8/2014	<	10	=	70	281	590
MCW-15c	840	9/9/2014♦	<	10	<	10	235	493
MCW-15c	840	9/10/2014	<	10	<	10	196	412
MCW-15c	840	9/11/2014	<	10	<	10	168	352
MCW-15c	840	9/12/2014	<	10	<	10	143	301
MCW-15c	840	9/13/2014	<	10	<	10	123	257
MCW-15c	840	9/14/2014	<	10	<	10	105	220
MCW-15c	840	9/15/2014	<	10	<	10	90	188
MCW-15c	930	9/16/2014♦	<	10	<	10	77	161
MCW-15c	930	9/17/2014	<	10	<	10	65	137
MCW-15c	930	9/18/2014	<	10	<	10	59	124

Mr. Kangshi Wang

October 20, 2014

Page 6 of 7

MCW-15c	930	9/19/2014		<	10	<	10	53	112
MCW-15c	930	9/20/2014		<	10	<	10	48	101
MCW-15c	930	9/21/2014		<	10	<	10	44	92
MCW-15c	930	9/22/2014		<	10	<	10	39	83
MCW-15c	935	9/23/2014◆		=	170	=	500	39	85
MCW-15c	935	9/24/2014		=	170	=	500	39	88
MCW-15c	935	9/25/2014		=	170	=	500	37	83
MCW-15c	935	9/26/2014		=	170	=	500	35	78
MCW-15c	935	9/27/2014		=	170	=	500	33	73
MCW-15c	935	9/28/2014		=	170	=	500	32	69
MCW-15c	935	9/29/2014		=	170	=	500	30	65
MCW-15c	1030	9/30/2014◆		=	270	=	3,000	29	65
MCW-17	-	9/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/3/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	9/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/7/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/8/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/9/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	9/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/12/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/14/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/15/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/16/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	9/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/19/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/21/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/22/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/23/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	9/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/28/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/29/2014	Dry	<	10	<	10	10	10
MCW-17	-	9/30/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	9/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/3/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	9/4/2014	Dry	<	10	<	10	10	10

MCW-18	-	9/5/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/6/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/7/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/8/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/9/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	9/10/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/11/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/12/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/13/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/14/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/15/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/16/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	9/17/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/18/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/19/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/20/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/21/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/22/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/23/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	9/24/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/25/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/26/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/27/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/28/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/29/2014	Dry	<	10	<	10	10	10
MCW-18	-	9/30/2014♦	Dry	<	10	<	10	10	10

Notes:

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 geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

November 17, 2014

Kangshi Wang, Ph.D.
California Regional Water Quality Control Board
Los Angeles Region
Standards & TMDL Unit
320 West 4th Street, Suite 200
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Watershed Protection District
Tully K. Clifford, Director
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David L. Fleisch, Director
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Herbert L. Schwind, Director
Water & Sanitation Department
David J. Sasek, Director
Central Services Department
Janice E. Turner, Director

**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND
OAKS**

Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL Compliance Monitoring Plan (CMP) for the month of October 2014. Sites were sampled weekly on Tuesdays (October 7, 14, 21 and 28). Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

If you have any questions regarding this matter, please contact Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles



Mr. Kangshi Wang
November 17, 2014
Page 2 of 7

Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample (as sampled)	
				E. coli (235 MPN)	Fecal (400 MPN)
MCW-8b	-	10/7/2014♦		Dry	Dry
MCW-8b	-	10/14/2014♦		Dry	Dry
MCW-8b	-	10/21/2014♦		Dry	Dry
MCW-8b	-	10/28/2014♦		Dry	Dry
MCW-9	-	10/7/2014♦		Dry	Dry
MCW-9	-	10/14/2014♦		Dry	Dry
MCW-9	-	10/21/2014♦		Dry	Dry
MCW-9	-	10/28/2014♦		Dry	Dry
MCW-12	-	10/7/2014♦		Dry	Dry
MCW-12	-	10/14/2014♦		Dry	Dry
MCW-12	-	10/21/2014♦		Dry	Dry
MCW-12	-	10/28/2014♦		Dry	Dry
MCW-14b	1030	10/7/2014♦	=	170	= 170
MCW-14b	1105	10/14/2014♦	=	1,100	= 9,000
MCW-14b	1015	10/21/2014♦	=	900	= 1,400
MCW-14b	1055	10/28/2014♦	=	130	= 1,300
MCW-15c	955	10/7/2014♦	=	1,100	= 1,700
MCW-15c	1030	10/14/2014♦	=	270	= 340
MCW-15c	955	10/21/2014♦	=	500	= 500
MCW-15c	1020	10/28/2014♦	=	170	= 170
MCW-17	-	10/7/2014♦		Dry	Dry
MCW-17	-	10/14/2014♦		Dry	Dry
MCW-17	-	10/21/2014♦		Dry	Dry
MCW-17	-	10/28/2014♦		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



Mr. Kangshi Wang
November 17, 2014
Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)			Geomean	
				E. coli	Fecal	E. coli	Fecal	
				(235 MPN)	(400 MPN)	(126 MPN)	(200 MPN)	
MCW-8b	-	10/1/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/2/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/3/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/4/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/5/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/6/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/7/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	10/8/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/9/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/10/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/11/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/12/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/13/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/14/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	10/15/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/16/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/17/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/18/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/19/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/20/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/21/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	10/22/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/23/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/24/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/25/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/26/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/27/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/28/2014♦	Dry	< 10	< 10	10	10	
MCW-8b	-	10/29/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/30/2014	Dry	< 10	< 10	10	10	
MCW-8b	-	10/31/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/1/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/2/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/3/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/4/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/5/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/6/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/7/2014♦	Dry	< 10	< 10	10	10	
MCW-9	-	10/8/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/9/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/10/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/11/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/12/2014	Dry	< 10	< 10	10	10	
MCW-9	-	10/13/2014	Dry	< 10	< 10	10	10	



Mr. Kangshi Wang
 November 17, 2014
 Page 4 of 7

MCW-9	-	10/14/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	10/15/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/21/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	10/22/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/28/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	10/29/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/30/2014	Dry	<	10	<	10	10	10
MCW-9	-	10/31/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/1/2014	Dry	<	10	<	10	15	16
MCW-12	-	10/2/2014	Dry	<	10	<	10	14	15
MCW-12	-	10/3/2014	Dry	<	10	<	10	13	13
MCW-12	-	10/4/2014	Dry	<	10	<	10	12	12
MCW-12	-	10/5/2014	Dry	<	10	<	10	11	11
MCW-12	-	10/6/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/7/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	10/8/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/9/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/10/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/11/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/12/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/13/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/14/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	10/15/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/16/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/17/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/18/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/19/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/20/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/21/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	10/22/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/23/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/24/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/25/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/26/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/27/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/28/2014♦	Dry	<	10	<	10	10	10
MCW-12	-	10/29/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/30/2014	Dry	<	10	<	10	10	10
MCW-12	-	10/31/2014	Dry	<	10	<	10	10	10



Mr. Kangshi Wang
 November 17, 2014
 Page 5 of 7

MCW-14b	1110	10/1/2014	=	500	=	800	117	135
MCW-14b	1110	10/2/2014	=	500	=	800	111	130
MCW-14b	1110	10/3/2014	=	500	=	800	114	136
MCW-14b	1110	10/4/2014	=	500	=	800	117	142
MCW-14b	1110	10/5/2014	=	500	=	800	121	148
MCW-14b	1110	10/6/2014	=	500	=	800	124	154
MCW-14b	1030	10/7/2014♦	=	170	=	170	123	153
MCW-14b	1030	10/8/2014	=	170	=	170	122	152
MCW-14b	1030	10/9/2014	=	170	=	170	117	144
MCW-14b	1030	10/10/2014	=	170	=	170	113	137
MCW-14b	1030	10/11/2014	=	170	=	170	109	130
MCW-14b	1030	10/12/2014	=	170	=	170	105	123
MCW-14b	1030	10/13/2014	=	170	=	170	102	117
MCW-14b	1105	10/14/2014♦	=	1,100	=	9,000	104	127
MCW-14b	1105	10/15/2014	=	1,100	=	9,000	107	138
MCW-14b	1105	10/16/2014	=	1,100	=	9,000	123	169
MCW-14b	1105	10/17/2014	=	1,100	=	9,000	140	207
MCW-14b	1105	10/18/2014	=	1,100	=	9,000	160	254
MCW-14b	1105	10/19/2014	=	1,100	=	9,000	183	311
MCW-14b	1105	10/20/2014	=	1,100	=	9,000	209	381
MCW-14b	1015	10/21/2014♦	=	900	=	1,400	237	439
MCW-14b	1015	10/22/2014	=	900	=	1,400	270	506
MCW-14b	1015	10/23/2014	=	900	=	1,400	299	570
MCW-14b	1015	10/24/2014	=	900	=	1,400	332	641
MCW-14b	1015	10/25/2014	=	900	=	1,400	368	722
MCW-14b	1015	10/26/2014	=	900	=	1,400	408	813
MCW-14b	1015	10/27/2014	=	900	=	1,400	453	915
MCW-14b	1055	10/28/2014♦	=	130	=	1,300	471	1,027
MCW-14b	1055	10/29/2014	=	130	=	1,300	490	1,154
MCW-14b	1055	10/30/2014	=	130	=	1,300	468	1,173
MCW-14b	1055	10/31/2014	=	130	=	1,300	448	1,192
MCW-15c	1030	10/1/2014	=	270	=	3,000	28	65
MCW-15c	1030	10/2/2014	=	270	=	3,000	27	65
MCW-15c	1030	10/3/2014	=	270	=	3,000	30	74
MCW-15c	1030	10/4/2014	=	270	=	3,000	34	84
MCW-15c	1030	10/5/2014	=	270	=	3,000	37	95
MCW-15c	1030	10/6/2014	=	270	=	3,000	42	107
MCW-15c	955	10/7/2014♦	=	1,100	=	1,700	49	119
MCW-15c	955	10/8/2014	=	1,100	=	1,700	57	133
MCW-15c	955	10/9/2014	=	1,100	=	1,700	67	158
MCW-15c	955	10/10/2014	=	1,100	=	1,700	78	187
MCW-15c	955	10/11/2014	=	1,100	=	1,700	91	222
MCW-15c	955	10/12/2014	=	1,100	=	1,700	107	263
MCW-15c	955	10/13/2014	=	1,100	=	1,700	125	313
MCW-15c	1105	10/14/2014♦	=	1,100	=	9,000	146	392
MCW-15c	1105	10/15/2014	=	1,100	=	9,000	171	492
MCW-15c	1105	10/16/2014	=	1,100	=	9,000	200	617
MCW-15c	1105	10/17/2014	=	1,100	=	9,000	234	774
MCW-15c	1105	10/18/2014	=	1,100	=	9,000	274	971



Mr. Kangshi Wang
November 17, 2014
Page 6 of 7

MCW-15c	1105	10/19/2014		=	1,100	=	9,000	320	1,218
MCW-15c	1105	10/20/2014		=	1,100	=	9,000	375	1,528
MCW-15c	1015	10/21/2014♦		=	900	=	1,400	435	1,802
MCW-15c	1015	10/22/2014		=	900	=	1,400	506	2,125
MCW-15c	1015	10/23/2014		=	900	=	1,400	535	2,199
MCW-15c	1015	10/24/2014		=	900	=	1,400	565	2,275
MCW-15c	1015	10/25/2014		=	900	=	1,400	598	2,355
MCW-15c	1015	10/26/2014		=	900	=	1,400	632	2,437
MCW-15c	1015	10/27/2014		=	900	=	1,400	668	2,522
MCW-15c	1055	10/28/2014♦		=	130	=	1,300	662	2,604
MCW-15c	1055	10/29/2014		=	130	=	1,300	656	2,688
MCW-15c	1055	10/30/2014		=	130	=	1,300	640	2,614
MCW-15c	1055	10/31/2014		=	130	=	1,300	625	2,542
MCW-17	-	10/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/3/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/7/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	10/8/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/12/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/14/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	10/15/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/19/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/21/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	10/22/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/28/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	10/29/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/30/2014	Dry	<	10	<	10	10	10
MCW-17	-	10/31/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/3/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/4/2014	Dry	<	10	<	10	10	10



Mr. Kangshi Wang
 November 17, 2014
 Page 7 of 7

MCW-18	-	10/5/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/6/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/7/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	10/8/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/9/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/10/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/11/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/12/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/13/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/14/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	10/15/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/16/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/17/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/18/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/19/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/20/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/21/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	10/22/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/23/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/24/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/25/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/26/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/27/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/28/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	10/29/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/30/2014	Dry	<	10	<	10	10	10
MCW-18	-	10/31/2014	Dry	<	10	<	10	10	10

Notes:

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 geomean.

Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦ Date of sampling

county of ventura

PUBLIC WORKS AGENCY
JEFF PRATT
Agency Director

December 16, 2014

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
(213) 576-6780

Watershed Protection District
Tully K. Clifford, Director

Transportation Department
David L. Fleisch, Director

Engineering Services Department
Herbert L. Schwind, Director

Water & Sanitation Department
David J. Sasek, Director

Central Services Department
Janice E. Turner, Director

**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND
OAKS**

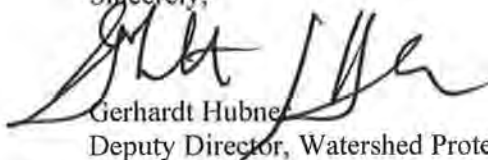
Dear Dr. Wang:

The table below summarizes the results of the weekly monitoring effort required by the Malibu Creek and Lagoon Bacteria TMDL (TMDL) Compliance Monitoring Plan (CMP) for the month of November 2014. Sites were sampled weekly on Tuesdays (November 4, 18 and 28), except for one instance when sites were sampled on Monday (November 10) due to Veterans Day. Sites without results reported were not sampled due to insufficient flow and are labeled "Dry." Daily geomeans were calculated using results from the previous 30 days (actual sampling date marked with ♦). 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 geomean. Half the detection limit was used for the purpose of calculating the daily geomean for sites with results reported as < 20 MPN/100ml or for dry weather when no sample was taken.

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 Ewelina Mutkowska at (805) 645-1382.

Sincerely,



Gerhardt Hubner
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District
Ewelina Mutkowska, County of Ventura
JoAnne Kelly, City of Thousand Oaks
Joe Bellomo, Wildan Associates
Allen Ma, County of Los Angeles



Mr. Kangshi Wang
 December 16, 2014
 Page 2 of 7

Table 1. Weekly sampling results

Location	Time	Date	Rain	Single Sample (as sampled)
				E. coli (235 MPN)
MCW-8b	-	11/4/2014 ♦		Dry
MCW-8b	-	11/10/2014 ♦		Dry
MCW-8b	-	11/18/2014 ♦		Dry
MCW-8b	-	11/25/2014 ♦		Dry
MCW-9	-	11/4/2014 ♦		Dry
MCW-9	-	11/10/2014 ♦		Dry
MCW-9	-	11/18/2014 ♦		Dry
MCW-9	-	11/25/2014 ♦		Dry
MCW-12	-	11/4/2014 ♦		Dry
MCW-12	-	11/10/2014 ♦		Dry
MCW-12	-	11/18/2014 ♦		Dry
MCW-12	-	11/25/2014 ♦		Dry
MCW-14b	1000	11/4/2014 ♦	=	20
MCW-14b	1015	11/10/2014 ♦	=	230
MCW-14b	1050	11/18/2014 ♦	=	130
MCW-14b	1020	11/25/2014 ♦	=	40
MCW-15c	940	11/4/2014 ♦	=	110
MCW-15c	930	11/10/2014 ♦	=	230
MCW-15c	1015	11/18/2014 ♦	=	80
MCW-15c	940	11/25/2014 ♦	=	50
MCW-17	-	11/4/2014 ♦		Dry
MCW-17	-	11/10/2014 ♦		Dry
MCW-17	-	11/18/2014 ♦		Dry
MCW-17	-	11/25/2014 ♦		Dry
MCW-18	-	11/4/2014 ♦		Dry
MCW-18	-	11/10/2014 ♦		Dry
MCW-18	-	11/18/2014 ♦		Dry
MCW-18	-	11/25/2014 ♦		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



Mr. Kangshi Wang
 December 16, 2014
 Page 3 of 7

Table 2. Computation of daily geomean

Location	Time	Date	Rain	Single Sample (adjusted for rain, dry and NDs)		Geomean
				E. coli (235 MPN)	E. coli (126 MPN)	
MCW-8b	-	11/1/2014	Dry	<	10	10
MCW-8b	-	11/2/2014	Dry	<	10	10
MCW-8b	-	11/3/2014	Dry	<	10	10
MCW-8b	-	11/4/2014♦	Dry	<	10	10
MCW-8b	-	11/5/2014	Dry	<	10	10
MCW-8b	-	11/6/2014	Dry	<	10	10
MCW-8b	-	11/7/2014	Dry	<	10	10
MCW-8b	-	11/8/2014	Dry	<	10	10
MCW-8b	-	11/9/2014	Dry	<	10	10
MCW-8b	-	11/10/2014♦	Dry	<	10	10
MCW-8b	-	11/11/2014	Dry	<	10	10
MCW-8b	-	11/12/2014	Dry	<	10	10
MCW-8b	-	11/13/2014	Dry	<	10	10
MCW-8b	-	11/14/2014	Dry	<	10	10
MCW-8b	-	11/15/2014	Dry	<	10	10
MCW-8b	-	11/16/2014	Dry	<	10	10
MCW-8b	-	11/17/2014	Dry	<	10	10
MCW-8b	-	11/18/2014♦	Dry	<	10	10
MCW-8b	-	11/19/2014	Dry	<	10	10
MCW-8b	-	11/20/2014	Dry	<	10	10
MCW-8b	-	11/21/2014	Dry	<	10	10
MCW-8b	-	11/22/2014	Dry	<	10	10
MCW-8b	-	11/23/2014	Dry	<	10	10
MCW-8b	-	11/24/2014	Dry	<	10	10
MCW-8b	-	11/25/2014♦	Dry	<	10	10
MCW-8b	-	11/26/2014	Dry	<	10	10
MCW-8b	-	11/27/2014	Dry	<	10	10
MCW-8b	-	11/28/2014	Dry	<	10	10
MCW-8b	-	11/29/2014	Dry	<	10	10
MCW-8b	-	11/30/2014	Dry	<	10	10
MCW-9	-	11/1/2014	Dry	<	10	10
MCW-9	-	11/2/2014	Dry	<	10	10
MCW-9	-	11/3/2014	Dry	<	10	10
MCW-9	-	11/4/2014♦	Dry	<	10	10
MCW-9	-	11/5/2014	Dry	<	10	10
MCW-9	-	11/6/2014	Dry	<	10	10
MCW-9	-	11/7/2014	Dry	<	10	10
MCW-9	-	11/8/2014	Dry	<	10	10
MCW-9	-	11/9/2014	Dry	<	10	10
MCW-9	-	11/10/2014♦	Dry	<	10	10
MCW-9	-	11/11/2014	Dry	<	10	10
MCW-9	-	11/12/2014	Dry	<	10	10



Mr. Kangshi Wang
 December 16, 2014
 Page 4 of 7

MCW-9	-	11/13/2014	Dry	<	10	10
MCW-9	-	11/14/2014	Dry	<	10	10
MCW-9	-	11/15/2014	Dry	<	10	10
MCW-9	-	11/16/2014	Dry	<	10	10
MCW-9	-	11/17/2014	Dry	<	10	10
MCW-9	-	11/18/2014♦	Dry	<	10	10
MCW-9	-	11/19/2014	Dry	<	10	10
MCW-9	-	11/20/2014	Dry	<	10	10
MCW-9	-	11/21/2014	Dry	<	10	10
MCW-9	-	11/22/2014	Dry	<	10	10
MCW-9	-	11/23/2014	Dry	<	10	10
MCW-9	-	11/24/2014	Dry	<	10	10
MCW-9	-	11/25/2014♦	Dry	<	10	10
MCW-9	-	11/26/2014	Dry	<	10	10
MCW-9	-	11/27/2014	Dry	<	10	10
MCW-9	-	11/28/2014	Dry	<	10	10
MCW-9	-	11/29/2014	Dry	<	10	10
MCW-9	-	11/30/2014	Dry	<	10	10
MCW-12	-	11/1/2014	Dry	<	10	10
MCW-12	-	11/2/2014	Dry	<	10	10
MCW-12	-	11/3/2014	Dry	<	10	10
MCW-12	-	11/4/2014♦	Dry	<	10	10
MCW-12	-	11/5/2014	Dry	<	10	10
MCW-12	-	11/6/2014	Dry	<	10	10
MCW-12	-	11/7/2014	Dry	<	10	10
MCW-12	-	11/8/2014	Dry	<	10	10
MCW-12	-	11/9/2014	Dry	<	10	10
MCW-12	-	11/10/2014♦	Dry	<	10	10
MCW-12	-	11/11/2014	Dry	<	10	10
MCW-12	-	11/12/2014	Dry	<	10	10
MCW-12	-	11/13/2014	Dry	<	10	10
MCW-12	-	11/14/2014	Dry	<	10	10
MCW-12	-	11/15/2014	Dry	<	10	10
MCW-12	-	11/16/2014	Dry	<	10	10
MCW-12	-	11/17/2014	Dry	<	10	10
MCW-12	-	11/18/2014♦	Dry	<	10	10
MCW-12	-	11/19/2014	Dry	<	10	10
MCW-12	-	11/20/2014	Dry	<	10	10
MCW-12	-	11/21/2014	Dry	<	10	10
MCW-12	-	11/22/2014	Dry	<	10	10
MCW-12	-	11/23/2014	Dry	<	10	10
MCW-12	-	11/24/2014	Dry	<	10	10
MCW-12	-	11/25/2014♦	Dry	<	10	10
MCW-12	-	11/26/2014	Dry	<	10	10
MCW-12	-	11/27/2014	Dry	<	10	10
MCW-12	-	11/28/2014	Dry	<	10	10
MCW-12	-	11/29/2014	Dry	<	10	10
MCW-12	-	11/30/2014	Dry	<	10	10



Mr. Kangshi Wang
 December 16, 2014
 Page 5 of 7

MCW-14b	11/1/2014	=	130	428
MCW-14b	11/2/2014	=	130	409
MCW-14b	11/3/2014	=	130	391
MCW-14b	11/4/2014♦	=	20	352
MCW-14b	11/5/2014	=	20	316
MCW-14b	11/6/2014	=	20	294
MCW-14b	11/7/2014	=	20	274
MCW-14b	11/8/2014	=	20	255
MCW-14b	11/9/2014	=	20	237
MCW-14b	11/10/2014♦	=	230	240
MCW-14b	11/11/2014	=	230	242
MCW-14b	11/12/2014	=	230	245
MCW-14b	11/13/2014	=	230	232
MCW-14b	11/14/2014	=	230	220
MCW-14b	11/15/2014	=	230	209
MCW-14b	11/16/2014	=	230	199
MCW-14b	11/17/2014	=	230	189
MCW-14b	11/18/2014♦	=	130	176
MCW-14b	11/19/2014	=	130	163
MCW-14b	11/20/2014	=	130	153
MCW-14b	11/21/2014	=	130	144
MCW-14b	11/22/2014	=	130	135
MCW-14b	11/23/2014	=	130	126
MCW-14b	11/24/2014	=	130	118
MCW-14b	11/25/2014♦	=	40	107
MCW-14b	11/26/2014	=	40	96
MCW-14b	11/27/2014	=	40	93
MCW-14b	11/28/2014	=	40	89
MCW-14b	11/29/2014	=	40	86
MCW-14b	11/30/2014	=	40	82
MCW-15c	11/1/2014	=	130	610
MCW-15c	11/2/2014	=	130	595
MCW-15c	11/3/2014	=	130	581
MCW-15c	11/4/2014♦	=	110	564
MCW-15c	11/5/2014	=	110	547
MCW-15c	11/6/2014	=	110	507
MCW-15c	11/7/2014	=	110	469
MCW-15c	11/8/2014	=	110	434
MCW-15c	11/9/2014	=	110	402
MCW-15c	11/10/2014♦	=	230	382
MCW-15c	11/11/2014	=	230	363
MCW-15c	11/12/2014	=	230	344
MCW-15c	11/13/2014	=	230	327
MCW-15c	11/14/2014	=	230	310
MCW-15c	11/15/2014	=	230	294
MCW-15c	11/16/2014	=	230	279
MCW-15c	11/17/2014	=	230	265
MCW-15c	11/18/2014♦	=	80	243
MCW-15c	11/19/2014	=	80	223
MCW-15c	11/20/2014	=	80	205



Mr. Kangshi Wang
 December 16, 2014
 Page 6 of 7

MCW-15c		11/21/2014		=	80	189
MCW-15c		11/22/2014		=	80	175
MCW-15c		11/23/2014		=	80	161
MCW-15c		11/24/2014		=	80	149
MCW-15c		11/25/2014♦		=	50	135
MCW-15c		11/26/2014		=	50	123
MCW-15c		11/27/2014		=	50	119
MCW-15c		11/28/2014		=	50	115
MCW-15c		11/29/2014		=	50	111
MCW-15c		11/30/2014		=	50	108
MCW-17	-	11/1/2014	Dry	<	10	10
MCW-17	-	11/2/2014	Dry	<	10	10
MCW-17	-	11/3/2014	Dry	<	10	10
MCW-17	-	11/4/2014♦	Dry	<	10	10
MCW-17	-	11/5/2014	Dry	<	10	10
MCW-17	-	11/6/2014	Dry	<	10	10
MCW-17	-	11/7/2014	Dry	<	10	10
MCW-17	-	11/8/2014	Dry	<	10	10
MCW-17	-	11/9/2014	Dry	<	10	10
MCW-17	-	11/10/2014♦	Dry	<	10	10
MCW-17	-	11/11/2014	Dry	<	10	10
MCW-17	-	11/12/2014	Dry	<	10	10
MCW-17	-	11/13/2014	Dry	<	10	10
MCW-17	-	11/14/2014	Dry	<	10	10
MCW-17	-	11/15/2014	Dry	<	10	10
MCW-17	-	11/16/2014	Dry	<	10	10
MCW-17	-	11/17/2014	Dry	<	10	10
MCW-17	-	11/18/2014♦	Dry	<	10	10
MCW-17	-	11/19/2014	Dry	<	10	10
MCW-17	-	11/20/2014	Dry	<	10	10
MCW-17	-	11/21/2014	Dry	<	10	10
MCW-17	-	11/22/2014	Dry	<	10	10
MCW-17	-	11/23/2014	Dry	<	10	10
MCW-17	-	11/24/2014	Dry	<	10	10
MCW-17	-	11/25/2014♦	Dry	<	10	10
MCW-17	-	11/26/2014	Dry	<	10	10
MCW-17	-	11/27/2014	Dry	<	10	10
MCW-17	-	11/28/2014	Dry	<	10	10
MCW-17	-	11/29/2014	Dry	<	10	10
MCW-17	-	11/30/2014	Dry	<	10	10
MCW-18	-	11/1/2014	Dry	<	10	10
MCW-18	-	11/2/2014	Dry	<	10	10
MCW-18	-	11/3/2014	Dry	<	10	10
MCW-18	-	11/4/2014♦	Dry	<	10	10
MCW-18	-	11/5/2014	Dry	<	10	10
MCW-18	-	11/6/2014	Dry	<	10	10
MCW-18	-	11/7/2014	Dry	<	10	10
MCW-18	-	11/8/2014	Dry	<	10	10



Mr. Kangshi Wang
 December 16, 2014
 Page 7 of 7

MCW-18	-	11/9/2014	Dry	<	10	10
MCW-18	-	11/10/2014♦	Dry	<	10	10
MCW-18	-	11/11/2014	Dry	<	10	10
MCW-18	-	11/12/2014	Dry	<	10	10
MCW-18	-	11/13/2014	Dry	<	10	10
MCW-18	-	11/14/2014	Dry	<	10	10
MCW-18	-	11/15/2014	Dry	<	10	10
MCW-18	-	11/16/2014	Dry	<	10	10
MCW-18	-	11/17/2014	Dry	<	10	10
MCW-18	-	11/18/2014♦	Dry	<	10	10
MCW-18	-	11/19/2014	Dry	<	10	10
MCW-18	-	11/20/2014	Dry	<	10	10
MCW-18	-	11/21/2014	Dry	<	10	10
MCW-18	-	11/22/2014	Dry	<	10	10
MCW-18	-	11/23/2014	Dry	<	10	10
MCW-18	-	11/24/2014	Dry	<	10	10
MCW-18	-	11/25/2014♦	Dry	<	10	10
MCW-18	-	11/26/2014	Dry	<	10	10
MCW-18	-	11/27/2014	Dry	<	10	10
MCW-18	-	11/28/2014	Dry	<	10	10
MCW-18	-	11/29/2014	Dry	<	10	10
MCW-18	-	11/30/2014	Dry	<	10	10

Notes:

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 geomean. Results of <20 are adjusted to use half the MDL (=10) in the calculation of the geomean.

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

♦Date of sampling

