



*Ventura Countywide  
Stormwater Quality  
Management Program*

2013-2014  
Permit Year

Ventura Countywide Stormwater Quality  
Management Program Annual Report  
**Attachment E: TMDL Annual Reports**  
**Part 2 of 2**



December 12, 2014

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

## **Attachment E: Total Maximum Daily Load Data and Reports Part 1 of 2**

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

July 22, 2013

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  
Herbert L. Schwind, Director  
Water & Sanitation Department  
R. Reddy Pakala, Director  
Central Services Department  
Janice Turner, Director

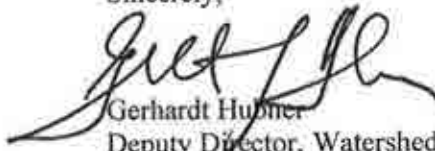
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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 June 2013. Sites were sampled weekly on Tuesdays (June 4, 11, 18, and 25). 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  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, 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	-	6/4/2013♦		Dry		Dry	
MCW-8b	-	6/11/2013♦		Dry		Dry	
MCW-8b	-	6/18/2013♦		Dry		Dry	
MCW-8b	-	6/25/2013♦		Dry		Dry	
MCW-9	-	6/4/2013♦		Dry		Dry	
MCW-9	-	6/11/2013♦		Dry		Dry	
MCW-9	-	6/18/2013♦		Dry		Dry	
MCW-9	-	6/25/2013♦		Dry		Dry	
MCW-12	1110	6/4/2013♦	=	20	=	20	
MCW-12	1145	6/11/2013♦	=	110	=	110	
MCW-12	1055	6/18/2013♦	=	3,000	=	5,000	
MCW-12	1145	6/25/2013♦	=	40	=	230	
MCW-14b	1045	6/4/2013♦	=	1,100	=	1,100	
MCW-14b	1120	6/11/2013♦	=	130	=	130	
MCW-14b	1030	6/18/2013♦	=	500	=	500	
MCW-14b	1115	6/25/2013♦	=	500	=	500	
MCW-15c	1015	6/4/2013♦	=	20	=	20	
MCW-15c	1050	6/11/2013♦	=	20	=	40	
MCW-15c	1005	6/18/2013♦	<	20	=	20	
MCW-15c	1030	6/25/2013♦	=	500	=	900	
MCW-17	-	6/4/2013♦		Dry		Dry	
MCW-17	-	6/11/2013♦		Dry		Dry	
MCW-17	-	6/18/2013♦		Dry		Dry	
MCW-17	-	6/25/2013♦		Dry		Dry	
MCW-18	-	6/4/2013♦		Dry		Dry	
MCW-18	-	6/11/2013♦		Dry		Dry	
MCW-18	-	6/18/2013♦		Dry		Dry	
MCW-18	-	6/25/2013♦		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 (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)	
MCW-8b	-	6/1/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/2/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/3/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/4/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/5/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/6/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/7/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/8/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/9/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/10/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/11/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/12/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/13/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/14/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/15/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/16/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/17/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/18/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/19/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/20/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/21/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/22/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/23/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/24/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/25/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	6/26/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/27/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/28/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/29/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	6/30/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/1/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/2/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/3/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/4/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	6/5/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/6/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/7/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/8/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/9/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/10/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/11/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	6/12/2013	Dry	< 10	< 10	10	10	
MCW-9	-	6/13/2013	Dry	< 10	< 10	10	10	

MCW-9	-	6/14/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/15/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/16/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/17/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/18/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	6/19/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/20/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/21/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/22/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/23/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/24/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/25/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	6/26/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/27/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/28/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/29/2013	Dry	<	10	<	10	10	10
MCW-9	-	6/30/2013	Dry	<	10	<	10	10	10
MCW-12	1045	6/1/2013		=	20	=	20	49	83
MCW-12	1045	6/2/2013		=	20	=	20	48	81
MCW-12	1045	6/3/2013		=	20	=	20	47	79
MCW-12	1110	6/4/2013♦		=	20	=	20	46	77
MCW-12	1110	6/5/2013		=	20	=	20	45	76
MCW-12	1110	6/6/2013		=	20	=	20	39	64
MCW-12	1110	6/7/2013		=	20	=	20	34	54
MCW-12	1110	6/8/2013		=	20	=	20	30	46
MCW-12	1110	6/9/2013		=	20	=	20	26	39
MCW-12	1110	6/10/2013		=	20	=	20	22	33
MCW-12	1145	6/11/2013♦		=	110	=	110	21	29
MCW-12	1145	6/12/2013		=	110	=	110	19	26
MCW-12	1145	6/13/2013		=	110	=	110	20	28
MCW-12	1145	6/14/2013		=	110	=	110	21	30
MCW-12	1145	6/15/2013		=	110	=	110	23	31
MCW-12	1145	6/16/2013		=	110	=	110	24	33
MCW-12	1145	6/17/2013		=	110	=	110	25	35
MCW-12	1055	6/18/2013♦		=	3,000	=	5,000	30	42
MCW-12	1055	6/19/2013		=	3,000	=	5,000	35	51
MCW-12	1055	6/20/2013		=	3,000	=	5,000	43	59
MCW-12	1055	6/21/2013		=	3,000	=	5,000	52	70
MCW-12	1055	6/22/2013		=	3,000	=	5,000	63	82
MCW-12	1055	6/23/2013		=	3,000	=	5,000	76	96
MCW-12	1055	6/24/2013		=	3,000	=	5,000	92	113
MCW-12	1145	6/25/2013♦		=	40	=	230	96	120
MCW-12	1145	6/26/2013		=	40	=	230	100	127
MCW-12	1145	6/27/2013		=	40	=	230	103	138
MCW-12	1145	6/28/2013		=	40	=	230	105	150
MCW-12	1145	6/29/2013		=	40	=	230	108	162
MCW-12	1145	6/30/2013		=	40	=	230	110	176

MCW-14b	1020	6/1/2013	=	2,400	=	2,400	1,744	2,586
MCW-14b	1020	6/2/2013	=	2,400	=	2,400	1,780	2,640
MCW-14b	1020	6/3/2013	=	2,400	=	2,400	1,817	2,694
MCW-14b	1045	6/4/2013♦	=	1,100	=	1,100	1,806	2,679
MCW-14b	1045	6/5/2013	=	1,100	=	1,100	1,796	2,664
MCW-14b	1045	6/6/2013	=	1,100	=	1,100	1,643	2,437
MCW-14b	1045	6/7/2013	=	1,100	=	1,100	1,503	2,229
MCW-14b	1045	6/8/2013	=	1,100	=	1,100	1,374	2,039
MCW-14b	1045	6/9/2013	=	1,100	=	1,100	1,257	1,865
MCW-14b	1045	6/10/2013	=	1,100	=	1,100	1,150	1,705
MCW-14b	1120	6/11/2013♦	=	130	=	130	979	1,453
MCW-14b	1120	6/12/2013	=	130	=	130	834	1,237
MCW-14b	1120	6/13/2013	=	130	=	130	773	1,146
MCW-14b	1120	6/14/2013	=	130	=	130	715	1,061
MCW-14b	1120	6/15/2013	=	130	=	130	663	983
MCW-14b	1120	6/16/2013	=	130	=	130	614	910
MCW-14b	1120	6/17/2013	=	130	=	130	568	843
MCW-14b	1030	6/18/2013♦	=	500	=	500	551	817
MCW-14b	1030	6/19/2013	=	500	=	500	533	791
MCW-14b	1030	6/20/2013	=	500	=	500	546	766
MCW-14b	1030	6/21/2013	=	500	=	500	560	742
MCW-14b	1030	6/22/2013	=	500	=	500	574	719
MCW-14b	1030	6/23/2013	=	500	=	500	588	696
MCW-14b	1030	6/24/2013	=	500	=	500	603	675
MCW-14b	1115	6/25/2013♦	=	500	=	500	618	653
MCW-14b	1115	6/26/2013	=	500	=	500	633	633
MCW-14b	1115	6/27/2013	=	500	=	500	601	601
MCW-14b	1115	6/28/2013	=	500	=	500	570	570
MCW-14b	1115	6/29/2013	=	500	=	500	541	541
MCW-14b	1115	6/30/2013	=	500	=	500	513	513
MCW-15c	950	6/1/2013	=	20	=	20	67	82
MCW-15c	950	6/2/2013	=	20	=	20	64	78
MCW-15c	950	6/3/2013	=	20	=	20	61	74
MCW-15c	1015	6/4/2013♦	=	20	=	20	59	71
MCW-15c	1015	6/5/2013	=	20	=	20	56	68
MCW-15c	1015	6/6/2013	=	20	=	20	51	62
MCW-15c	1015	6/7/2013	=	20	=	20	47	57
MCW-15c	1015	6/8/2013	=	20	=	20	43	52
MCW-15c	1015	6/9/2013	=	20	=	20	39	47
MCW-15c	1015	6/10/2013	=	20	=	20	36	43
MCW-15c	1050	6/11/2013♦	=	20	=	40	33	40
MCW-15c	1050	6/12/2013	=	20	=	40	30	38
MCW-15c	1050	6/13/2013	=	20	=	40	27	35
MCW-15c	1050	6/14/2013	=	20	=	40	25	32
MCW-15c	1050	6/15/2013	=	20	=	40	23	29
MCW-15c	1050	6/16/2013	=	20	=	40	22	27
MCW-15c	1050	6/17/2013	=	20	=	40	20	25
MCW-15c	1005	6/18/2013♦	<	10	=	20	18	22

MCW-15c	1005	6/19/2013		<	10	=	20	16	20
MCW-15c	1005	6/20/2013		<	10	=	20	16	20
MCW-15c	1005	6/21/2013		<	10	=	20	16	21
MCW-15c	1005	6/22/2013		<	10	=	20	16	21
MCW-15c	1005	6/23/2013		<	10	=	20	16	22
MCW-15c	1005	6/24/2013		<	10	=	20	16	22
MCW-15c	1030	6/25/2013♦		=	500	=	900	19	26
MCW-15c	1030	6/26/2013		=	500	=	900	21	30
MCW-15c	1030	6/27/2013		=	500	=	900	23	34
MCW-15c	1030	6/28/2013		=	500	=	900	26	39
MCW-15c	1030	6/29/2013		=	500	=	900	29	44
MCW-15c	1030	6/30/2013		=	500	=	900	32	50
MCW-17	-	6/1/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/2/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/3/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/4/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	6/5/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/6/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/7/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/8/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/9/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/10/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/11/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	6/12/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/13/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/14/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/15/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/16/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/17/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/18/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	6/19/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/20/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/21/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/22/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/23/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/24/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/25/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	6/26/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/27/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/28/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/29/2013	Dry	<	10	<	10	10	10
MCW-17	-	6/30/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/1/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/2/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/3/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/4/2013♦	Dry	<	10	<	10	10	10



MCW-18	-	6/5/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/6/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/7/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/8/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/9/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/10/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/11/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	6/12/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/13/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/14/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/15/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/16/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/17/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/18/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	6/19/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/20/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/21/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/22/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/23/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/24/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/25/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	6/26/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/27/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/28/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/29/2013	Dry	<	10	<	10	10	10
MCW-18	-	6/30/2013	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 geometric mean.

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

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

♦ Date of sampling

August 21, 2013

Kangshi Wang, Ph.D.  
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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 July 2013. Sites were sampled weekly on Tuesdays (July 2, 9, 16, 23, and 30). 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  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, 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	-	7/2/2013♦		Dry		Dry	
MCW-8b	-	7/9/2013♦		Dry		Dry	
MCW-8b	-	7/16/2013♦		Dry		Dry	
MCW-8b	-	7/23/2013♦		Dry		Dry	
MCW-8b	-	7/30/2013♦		Dry		Dry	
MCW-9	-	7/2/2013♦		Dry		Dry	
MCW-9	-	7/9/2013♦		Dry		Dry	
MCW-9	-	7/16/2013♦		Dry		Dry	
MCW-9	-	7/23/2013♦		Dry		Dry	
MCW-9	-	7/30/2013♦		Dry		Dry	
MCW-12	1215	7/2/2013♦	=	80	=	80	
MCW-12	1215	7/9/2013♦		Dry		Dry	
MCW-12	1210	7/16/2013♦	<	20	=	40	
MCW-12	1030	7/23/2013♦		Dry		Dry	
MCW-12	1100	7/30/2013♦		Dry		Dry	
MCW-14b	1130	7/2/2013♦	=	800	=	800	
MCW-14b	1145	7/9/2013♦	=	500	=	500	
MCW-14b	1130	7/16/2013♦	=	40	=	40	
MCW-14b	950	7/23/2013♦	=	300	=	9,000	
MCW-14b	1030	7/30/2013♦	=	40	=	40	
MCW-15c	1035	7/2/2013♦	=	40	=	1,800	
MCW-15c	1040	7/9/2013♦	<	20	=	500	
MCW-15c	1030	7/16/2013♦	<	20	=	230	
MCW-15c	910	7/23/2013♦	=	140	=	140	
MCW-15c	945	7/30/2013♦	=	170	=	170	
MCW-17	-	7/2/2013♦		Dry		Dry	
MCW-17	-	7/9/2013♦		Dry		Dry	
MCW-17	-	7/16/2013♦		Dry		Dry	
MCW-17	-	7/23/2013♦		Dry		Dry	
MCW-17	-	7/30/2013♦		Dry		Dry	
MCW-18	-	7/2/2013♦		Dry		Dry	
MCW-18	-	7/9/2013♦		Dry		Dry	
MCW-18	-	7/16/2013♦		Dry		Dry	
MCW-18	-	7/23/2013♦		Dry		Dry	
MCW-18	-	7/30/2013♦		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	-	7/1/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/2/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	7/3/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/4/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/5/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/6/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/7/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/8/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/9/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	7/10/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/11/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/12/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/13/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/14/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/15/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/16/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	7/17/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/18/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/19/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/20/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/21/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/22/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/23/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	7/24/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/25/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/26/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/27/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/28/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/29/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	7/30/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	7/31/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/1/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/2/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	7/3/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/4/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/5/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/6/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/7/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/8/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/9/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	7/10/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/11/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/12/2013	Dry	< 10	< 10	10	10	
MCW-9	-	7/13/2013	Dry	< 10	< 10	10	10	

MCW-9	-	7/14/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/15/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/16/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	7/17/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/18/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/19/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/20/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/21/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/22/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/23/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	7/24/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/25/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/26/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/27/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/28/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/29/2013	Dry	<	10	<	10	10	10
MCW-9	-	7/30/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	7/31/2013	Dry	<	10	<	10	10	10
MCW-12	1145	7/1/2013		=	40	=	230	113	191
MCW-12	1215	7/2/2013♦		=	80	=	80	118	200
MCW-12	1215	7/3/2013		=	80	=	80	124	209
MCW-12	1215	7/4/2013		=	80	=	80	129	219
MCW-12	1215	7/5/2013		=	80	=	80	136	230
MCW-12	1215	7/6/2013		=	80	=	80	142	241
MCW-12	1215	7/7/2013		=	80	=	80	149	252
MCW-12	1215	7/8/2013		=	80	=	80	156	264
MCW-12	-	7/9/2013♦	Dry	<	10	<	10	152	258
MCW-12	-	7/10/2013	Dry	<	10	<	10	149	252
MCW-12	-	7/11/2013	Dry	<	10	<	10	137	233
MCW-12	-	7/12/2013	Dry	<	10	<	10	127	215
MCW-12	-	7/13/2013	Dry	<	10	<	10	117	198
MCW-12	-	7/14/2013	Dry	<	10	<	10	108	183
MCW-12	-	7/15/2013	Dry	<	10	<	10	100	169
MCW-12	1210	7/16/2013♦		<	10	=	40	92	163
MCW-12	1210	7/17/2013		<	10	=	40	85	158
MCW-12	1210	7/18/2013		<	10	=	40	70	134
MCW-12	1210	7/19/2013		<	10	=	40	58	114
MCW-12	1210	7/20/2013		<	10	=	40	48	97
MCW-12	1210	7/21/2013		<	10	=	40	40	83
MCW-12	1210	7/22/2013		<	10	=	40	33	71
MCW-12	-	7/23/2013♦	Dry	<	10	<	10	27	57
MCW-12	-	7/24/2013	Dry	<	10	<	10	22	47
MCW-12	-	7/25/2013	Dry	<	10	<	10	21	42
MCW-12	-	7/26/2013	Dry	<	10	<	10	20	38
MCW-12	-	7/27/2013	Dry	<	10	<	10	20	34
MCW-12	-	7/28/2013	Dry	<	10	<	10	19	31
MCW-12	-	7/29/2013	Dry	<	10	<	10	18	28
MCW-12	-	7/30/2013♦	Dry	<	10	<	10	17	25
MCW-12	-	7/31/2013	Dry	<	10	<	10	16	22

MCW-14b	1115	7/1/2013	=	500	=	500	487	487
MCW-14b	1130	7/2/2013♦	=	800	=	800	470	470
MCW-14b	1130	7/3/2013	=	800	=	800	453	453
MCW-14b	1130	7/4/2013	=	800	=	800	448	448
MCW-14b	1130	7/5/2013	=	800	=	800	443	443
MCW-14b	1130	7/6/2013	=	800	=	800	439	439
MCW-14b	1130	7/7/2013	=	800	=	800	434	434
MCW-14b	1130	7/8/2013	=	800	=	800	429	429
MCW-14b	1145	7/9/2013♦	=	500	=	500	418	418
MCW-14b	1145	7/10/2013	=	500	=	500	407	407
MCW-14b	1145	7/11/2013	=	500	=	500	426	426
MCW-14b	1145	7/12/2013	=	500	=	500	446	446
MCW-14b	1145	7/13/2013	=	500	=	500	466	466
MCW-14b	1145	7/14/2013	=	500	=	500	488	488
MCW-14b	1145	7/15/2013	=	500	=	500	510	510
MCW-14b	1130	7/16/2013♦	=	40	=	40	490	490
MCW-14b	1130	7/17/2013	=	40	=	40	471	471
MCW-14b	1130	7/18/2013	=	40	=	40	433	433
MCW-14b	1130	7/19/2013	=	40	=	40	398	398
MCW-14b	1130	7/20/2013	=	40	=	40	366	366
MCW-14b	1130	7/21/2013	=	40	=	40	337	337
MCW-14b	1130	7/22/2013	=	40	=	40	309	309
MCW-14b	950	7/23/2013♦	=	300	=	9,000	304	341
MCW-14b	950	7/24/2013	=	300	=	9,000	299	375
MCW-14b	950	7/25/2013	=	300	=	9,000	294	413
MCW-14b	950	7/26/2013	=	300	=	9,000	289	455
MCW-14b	950	7/27/2013	=	300	=	9,000	284	501
MCW-14b	950	7/28/2013	=	300	=	9,000	279	552
MCW-14b	950	7/29/2013	=	300	=	9,000	275	608
MCW-14b	1030	7/30/2013♦	=	40	=	40	253	558
MCW-14b	1030	7/31/2013	=	40	=	40	232	513
MCW-15c	1030	7/1/2013	=	500	=	900	36	57
MCW-15c	1035	7/2/2013♦	=	40	=	1,800	37	66
MCW-15c	1035	7/3/2013	=	40	=	1,800	38	77
MCW-15c	1035	7/4/2013	=	40	=	1,800	39	90
MCW-15c	1035	7/5/2013	=	40	=	1,800	40	104
MCW-15c	1035	7/6/2013	=	40	=	1,800	40	121
MCW-15c	1035	7/7/2013	=	40	=	1,800	41	141
MCW-15c	1035	7/8/2013	=	40	=	1,800	42	163
MCW-15c	1040	7/9/2013♦	<	10	=	500	41	182
MCW-15c	1040	7/10/2013	<	10	=	500	40	202
MCW-15c	1040	7/11/2013	<	10	=	500	40	220
MCW-15c	1040	7/12/2013	<	10	=	500	39	240
MCW-15c	1040	7/13/2013	<	10	=	500	38	261
MCW-15c	1040	7/14/2013	<	10	=	500	37	283
MCW-15c	1040	7/15/2013	<	10	=	500	36	308
MCW-15c	1030	7/16/2013♦	<	10	=	230	35	327
MCW-15c	1030	7/17/2013	<	10	=	230	34	346
MCW-15c	1030	7/18/2013	<	10	=	230	34	376

MCW-15c	1030	7/19/2013		<	10	=	230	34	408
MCW-15c	1030	7/20/2013		<	10	=	230	34	442
MCW-15c	1030	7/21/2013		<	10	=	230	34	480
MCW-15c	1030	7/22/2013		<	10	=	230	34	521
MCW-15c	910	7/23/2013♦		=	140	=	140	38	555
MCW-15c	910	7/24/2013		=	140	=	140	41	593
MCW-15c	910	7/25/2013		=	140	=	140	39	557
MCW-15c	910	7/26/2013		=	140	=	140	38	524
MCW-15c	910	7/27/2013		=	140	=	140	36	492
MCW-15c	910	7/28/2013		=	140	=	140	35	462
MCW-15c	910	7/29/2013		=	140	=	140	33	435
MCW-15c	945	7/30/2013♦		=	170	=	170	32	411
MCW-15c	945	7/31/2013		=	170	=	170	31	389
MCW-17	-	7/1/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/2/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	7/3/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/4/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/5/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/6/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/7/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/8/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/9/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	7/10/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/11/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/12/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/13/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/14/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/15/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/16/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	7/17/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/18/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/19/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/20/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/21/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/22/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/23/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	7/24/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/25/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/26/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/27/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/28/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/29/2013	Dry	<	10	<	10	10	10
MCW-17	-	7/30/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	7/31/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/1/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/2/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	7/3/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/4/2013	Dry	<	10	<	10	10	10

MCW-18	-	7/5/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/6/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/7/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/8/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/9/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	7/10/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/11/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/12/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/13/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/14/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/15/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/16/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	7/17/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/18/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/19/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/20/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/21/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/22/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/23/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	7/24/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/25/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/26/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/27/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/28/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/29/2013	Dry	<	10	<	10	10	10
MCW-18	-	7/30/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	7/31/2013	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 geometric mean.

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

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

♦Date of sampling.



September 23, 2013

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  
Herbert L. Schwind, Director  
Water & Sanitation Department  
R. Reddy Pakala, Director  
Central Services Department  
Janice Turner, Director

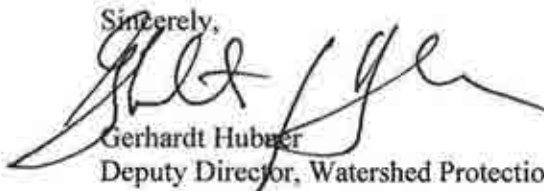
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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 2013. Sites were sampled weekly on Tuesdays (August 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.

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  
Bob Carson, City of Thousand Oaks  
Joe Bellomo, Wildan Associates  
Fred Gonzales, 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	-	8/6/2013♦		Dry		Dry	
MCW-8b	-	8/13/2013♦		Dry		Dry	
MCW-8b	-	8/20/2013♦		Dry		Dry	
MCW-8b	-	8/27/2013♦		Dry		Dry	
MCW-9	-	8/6/2013♦		Dry		Dry	
MCW-9	-	8/13/2013♦		Dry		Dry	
MCW-9	-	8/20/2013♦		Dry		Dry	
MCW-9	-	8/27/2013♦		Dry		Dry	
MCW-12	-	8/6/2013♦		Dry		Dry	
MCW-12	-	8/13/2013♦		Dry		Dry	
MCW-12	-	8/20/2013♦		Dry		Dry	
MCW-12	-	8/27/2013♦		Dry		Dry	
MCW-14b	1130	8/6/2013♦	=	130	=	130	
MCW-14b	1115	8/13/2013♦	=	80	=	80	
MCW-14b	1030	8/20/2013♦	=	500	=	500	
MCW-14b	1120	8/27/2013♦	=	300	=	300	
MCW-15c	1040	8/6/2013♦	=	130	=	230	
MCW-15c	1030	8/13/2013♦	=	90	=	1,110	
MCW-15c	955	8/20/2013♦	=	1,700	=	3,000	
MCW-15c	1030	8/27/2013♦	=	80	=	80	
MCW-17	-	8/6/2013♦		Dry		Dry	
MCW-17	-	8/13/2013♦		Dry		Dry	
MCW-17	-	8/20/2013♦		Dry		Dry	
MCW-17	-	8/27/2013♦		Dry		Dry	
MCW-18	-	8/6/2013♦		Dry		Dry	
MCW-18	-	8/13/2013♦		Dry		Dry	
MCW-18	-	8/20/2013♦		Dry		Dry	
MCW-18	-	8/27/2013♦		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 (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)		
MCW-12	-	8/1/2013	Dry	<	10	<	10	15	21
MCW-12	-	8/2/2013	Dry	<	10	<	10	14	20
MCW-12	-	8/3/2013	Dry	<	10	<	10	13	18
MCW-12	-	8/4/2013	Dry	<	10	<	10	12	17
MCW-12	-	8/5/2013	Dry	<	10	<	10	11	16
MCW-12	-	8/6/2013♦	Dry	<	10	<	10	11	15
MCW-12	-	8/7/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/8/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/9/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/10/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/11/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/12/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/13/2013♦	Dry	<	10	<	10	10	14
MCW-12	-	8/14/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/15/2013	Dry	<	10	<	10	10	13
MCW-12	-	8/16/2013	Dry	<	10	<	10	10	13
MCW-12	-	8/17/2013	Dry	<	10	<	10	10	12
MCW-12	-	8/18/2013	Dry	<	10	<	10	10	11
MCW-12	-	8/19/2013	Dry	<	10	<	10	10	11
MCW-12	-	8/20/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	8/21/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/22/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/23/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/24/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/25/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/26/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/27/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	8/28/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/29/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/30/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/31/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/1/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/2/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/3/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/4/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/5/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/6/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	8/7/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/8/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/9/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/10/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/11/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/12/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/13/2013♦	Dry	<	10	<	10	10	10

MCW-9	-	8/14/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/15/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/16/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/17/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/18/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/19/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/20/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	8/21/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/22/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/23/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/24/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/25/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/26/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/27/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	8/28/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/29/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/30/2013	Dry	<	10	<	10	10	10
MCW-9	-	8/31/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/1/2013	Dry	<	10	<	10	15	21
MCW-12	-	8/2/2013	Dry	<	10	<	10	14	20
MCW-12	-	8/3/2013	Dry	<	10	<	10	13	18
MCW-12	-	8/4/2013	Dry	<	10	<	10	12	17
MCW-12	-	8/5/2013	Dry	<	10	<	10	11	16
MCW-12	-	8/6/2013♦	Dry	<	10	<	10	11	15
MCW-12	-	8/7/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/8/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/9/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/10/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/11/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/12/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/13/2013♦	Dry	<	10	<	10	10	14
MCW-12	-	8/14/2013	Dry	<	10	<	10	10	14
MCW-12	-	8/15/2013	Dry	<	10	<	10	10	13
MCW-12	-	8/16/2013	Dry	<	10	<	10	10	13
MCW-12	-	8/17/2013	Dry	<	10	<	10	10	12
MCW-12	-	8/18/2013	Dry	<	10	<	10	10	11
MCW-12	-	8/19/2013	Dry	<	10	<	10	10	11
MCW-12	-	8/20/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	8/21/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/22/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/23/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/24/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/25/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/26/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/27/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	8/28/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/29/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/30/2013	Dry	<	10	<	10	10	10
MCW-12	-	8/31/2013	Dry	<	10	<	10	10	10

MCW-14b	1030	8/1/2013	=	40	=	40	210	465
MCW-14b	1030	8/2/2013	=	40	=	40	190	420
MCW-14b	1030	8/3/2013	=	40	=	40	172	380
MCW-14b	1030	8/4/2013	=	40	=	40	156	344
MCW-14b	1030	8/5/2013	=	40	=	40	141	312
MCW-14b	1130	8/6/2013♦	=	130	=	130	133	293
MCW-14b	1130	8/7/2013	=	130	=	130	125	276
MCW-14b	1130	8/8/2013	=	130	=	130	119	264
MCW-14b	1130	8/9/2013	=	130	=	130	114	252
MCW-14b	1130	8/10/2013	=	130	=	130	109	241
MCW-14b	1130	8/11/2013	=	130	=	130	104	231
MCW-14b	1130	8/12/2013	=	130	=	130	100	221
MCW-14b	1115	8/13/2013♦	=	80	=	80	94	207
MCW-14b	1115	8/14/2013	=	80	=	80	88	195
MCW-14b	1115	8/15/2013	=	80	=	80	90	200
MCW-14b	1115	8/16/2013	=	80	=	80	92	204
MCW-14b	1115	8/17/2013	=	80	=	80	95	209
MCW-14b	1115	8/18/2013	=	80	=	80	97	214
MCW-14b	1115	8/19/2013	=	80	=	80	99	219
MCW-14b	1030	8/20/2013♦	=	500	=	500	108	238
MCW-14b	1030	8/21/2013	=	500	=	500	117	259
MCW-14b	1030	8/22/2013	=	500	=	500	119	235
MCW-14b	1030	8/23/2013	=	500	=	500	121	214
MCW-14b	1030	8/24/2013	=	500	=	500	123	194
MCW-14b	1030	8/25/2013	=	500	=	500	125	176
MCW-14b	1030	8/26/2013	=	500	=	500	128	160
MCW-14b	1120	8/27/2013♦	=	300	=	300	128	143
MCW-14b	1120	8/28/2013	=	300	=	300	128	128
MCW-14b	1120	8/29/2013	=	300	=	300	137	137
MCW-14b	1120	8/30/2013	=	300	=	300	146	146
MCW-14b	1120	8/31/2013	=	300	=	300	156	156
MCW-15c	945	8/1/2013	=	170	=	170	32	359
MCW-15c	945	8/2/2013	=	170	=	170	34	332
MCW-15c	945	8/3/2013	=	170	=	170	36	307
MCW-15c	945	8/4/2013	=	170	=	170	37	284
MCW-15c	945	8/5/2013	=	170	=	170	39	262
MCW-15c	1040	8/6/2013♦	=	130	=	230	41	245
MCW-15c	1040	8/7/2013	=	130	=	230	43	229
MCW-15c	1040	8/8/2013	=	130	=	230	46	223
MCW-15c	1040	8/9/2013	=	130	=	230	50	217
MCW-15c	1040	8/10/2013	=	130	=	230	55	212
MCW-15c	1040	8/11/2013	=	130	=	230	60	206
MCW-15c	1040	8/12/2013	=	130	=	230	65	201
MCW-15c	1030	8/13/2013♦	=	90	=	1,110	70	206
MCW-15c	1030	8/14/2013	=	90	=	1,110	76	212
MCW-15c	1030	8/15/2013	=	90	=	1,110	81	223
MCW-15c	1030	8/16/2013	=	90	=	1,110	87	235
MCW-15c	1030	8/17/2013	=	90	=	1,110	94	248
MCW-15c	1030	8/18/2013	=	90	=	1,110	101	262

MCW-15c	1030	8/19/2013		=	90	=	1,110	109	276
MCW-15c	955	8/20/2013♦		=	1,700	=	3,000	129	300
MCW-15c	955	8/21/2013		=	1,700	=	3,000	153	327
MCW-15c	955	8/22/2013		=	1,700	=	3,000	167	362
MCW-15c	955	8/23/2013		=	1,700	=	3,000	181	401
MCW-15c	955	8/24/2013		=	1,700	=	3,000	197	444
MCW-15c	955	8/25/2013		=	1,700	=	3,000	214	492
MCW-15c	955	8/26/2013		=	1,700	=	3,000	233	545
MCW-15c	1030	8/27/2013♦		=	80	=	80	228	535
MCW-15c	1030	8/28/2013		=	80	=	80	224	525
MCW-15c	1030	8/29/2013		=	80	=	80	218	512
MCW-15c	1030	8/30/2013		=	80	=	80	213	499
MCW-15c	1030	8/31/2013		=	80	=	80	208	487
MCW-17	-	8/1/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/2/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/3/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/4/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/5/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/6/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	8/7/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/8/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/9/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/10/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/11/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/12/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/13/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	8/14/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/15/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/16/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/17/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/18/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/19/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/20/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	8/21/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/22/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/23/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/24/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/25/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/26/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/27/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	8/28/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/29/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/30/2013	Dry	<	10	<	10	10	10
MCW-17	-	8/31/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/1/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/2/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/3/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/4/2013	Dry	<	10	<	10	10	10

MCW-18	-	8/5/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/6/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	8/7/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/8/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/9/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/10/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/11/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/12/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/13/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	8/14/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/15/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/16/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/17/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/18/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/19/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/20/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	8/21/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/22/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/23/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/24/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/25/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/26/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/27/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	8/28/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/29/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/30/2013	Dry	<	10	<	10	10	10
MCW-18	-	8/31/2013	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

October 21, 2013

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  
Herbert L. Schwind, Director

Water & Sanitation Department  
R. Reddy Pakala, Director

Central Services Department  
Janice Turner, Director

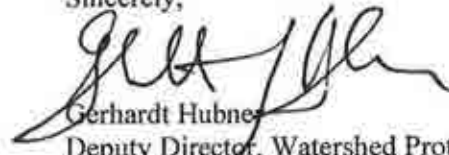
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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 September 2013. Sites were sampled weekly on Tuesdays (September 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  
Bob Carson, 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	-	9/3/2013♦		Dry		Dry
MCW-8b	-	9/10/2013♦		Dry		Dry
MCW-8b	-	9/17/2013♦		Dry		Dry
MCW-8b	-	9/24/2013♦		Dry		Dry
MCW-9	-	9/3/2013♦		Dry		Dry
MCW-9	-	9/10/2013♦		Dry		Dry
MCW-9	-	9/17/2013♦		Dry		Dry
MCW-9	-	9/24/2013♦		Dry		Dry
MCW-12	-	9/3/2013♦		Dry		Dry
MCW-12	-	9/10/2013♦		Dry		Dry
MCW-12	-	9/17/2013♦		Dry		Dry
MCW-12	-	9/24/2013♦		Dry		Dry
MCW-14b	1040	9/3/2013♦	=	230	=	300
MCW-14b	1050	9/10/2013♦	=	800	=	1,300
MCW-14b	1110	9/17/2013♦	=	230	=	230
MCW-14b	1100	9/24/2013♦	=	230	=	230
MCW-15c	1015	9/3/2013♦	<	20	=	80
MCW-15c	1015	9/10/2013♦	=	70	=	210
MCW-15c	1025	9/17/2013♦	=	500	=	500
MCW-15c	1000	9/24/2013♦	=	9,000	=	16,000
MCW-17	-	9/3/2013♦		Dry		Dry
MCW-17	-	9/10/2013♦		Dry		Dry
MCW-17	-	9/17/2013♦		Dry		Dry
MCW-17	-	9/24/2013♦		Dry		Dry
MCW-18	-	9/3/2013♦		Dry		Dry
MCW-18	-	9/10/2013♦		Dry		Dry
MCW-18	-	9/17/2013♦		Dry		Dry
MCW-18	-	9/24/2013♦		Dry		Dry

Notes:

\* The RWQCB granted permission to replace site MCW-15b with site Spectal-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 (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)		
MCW-12	-	9/1/2013	Dry	<	10	<	10	15	21
MCW-12	-	9/2/2013	Dry	<	10	<	10	14	20
MCW-12	-	9/3/2013♦	Dry	<	10	<	10	13	18
MCW-12	-	9/4/2013	Dry	<	10	<	10	12	17
MCW-12	-	9/5/2013	Dry	<	10	<	10	11	16
MCW-12	-	9/6/2013	Dry	<	10	<	10	11	15
MCW-12	-	9/7/2013	Dry	<	10	<	10	10	14
MCW-12	-	9/8/2013	Dry	<	10	<	10	10	14
MCW-12	-	9/9/2013	Dry	<	10	<	10	10	14
MCW-12	-	9/10/2013♦	Dry	<	10	<	10	10	14
MCW-12	-	9/11/2013	Dry	<	10	<	10	10	14
MCW-12	-	9/12/2013	Dry	<	10	<	10	10	14
MCW-12	-	9/13/2013	Dry	<	10	<	10	10	14
MCW-12	-	9/14/2013	Dry	<	10	<	10	10	14
MCW-12	-	9/15/2013	Dry	<	10	<	10	10	13
MCW-12	-	9/16/2013	Dry	<	10	<	10	10	13
MCW-12	-	9/17/2013♦	Dry	<	10	<	10	10	12
MCW-12	-	9/18/2013	Dry	<	10	<	10	10	11
MCW-12	-	9/19/2013	Dry	<	10	<	10	10	11
MCW-12	-	9/20/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/21/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/22/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/23/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/24/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	9/25/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/26/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/27/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/28/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/29/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/30/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/1/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/2/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/3/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	9/4/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/5/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/6/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/7/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/8/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/9/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/10/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	9/11/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/12/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/13/2013	Dry	<	10	<	10	10	10

MCW-9	-	9/14/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/15/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/16/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/17/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	9/18/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/19/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/20/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/21/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/22/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/23/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/24/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	9/25/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/26/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/27/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/28/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/29/2013	Dry	<	10	<	10	10	10
MCW-9	-	9/30/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/1/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/2/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/3/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	9/4/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/5/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/6/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/7/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/8/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/9/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/10/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	9/11/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/12/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/13/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/14/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/15/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/16/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/17/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	9/18/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/19/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/20/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/21/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/22/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/23/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/24/2013♦	Dry	<	10	<	10	10	10
MCW-12	-	9/25/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/26/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/27/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/28/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/29/2013	Dry	<	10	<	10	10	10
MCW-12	-	9/30/2013	Dry	<	10	<	10	10	10

MCW-14b	1120	9/1/2013	=	300	=	300	167	167
MCW-14b	1120	9/2/2013	=	300	=	300	179	179
MCW-14b	1040	9/3/2013♦	=	230	=	300	189	191
MCW-14b	1040	9/4/2013	=	230	=	300	201	204
MCW-14b	1040	9/5/2013	=	230	=	300	205	210
MCW-14b	1040	9/6/2013	=	230	=	300	208	216
MCW-14b	1040	9/7/2013	=	230	=	300	212	222
MCW-14b	1040	9/8/2013	=	230	=	300	217	228
MCW-14b	1040	9/9/2013	=	230	=	300	221	235
MCW-14b	1050	9/10/2013♦	=	800	=	1,300	234	254
MCW-14b	1050	9/11/2013	=	800	=	1,300	249	274
MCW-14b	1050	9/12/2013	=	800	=	1,300	269	300
MCW-14b	1050	9/13/2013	=	800	=	1,300	290	330
MCW-14b	1050	9/14/2013	=	800	=	1,300	314	362
MCW-14b	1050	9/15/2013	=	800	=	1,300	339	397
MCW-14b	1050	9/16/2013	=	800	=	1,300	366	436
MCW-14b	1110	9/17/2013♦	=	230	=	230	379	451
MCW-14b	1110	9/18/2013	=	230	=	230	392	468
MCW-14b	1110	9/19/2013	=	230	=	230	382	456
MCW-14b	1110	9/20/2013	=	230	=	230	373	444
MCW-14b	1110	9/21/2013	=	230	=	230	363	433
MCW-14b	1110	9/22/2013	=	230	=	230	354	422
MCW-14b	1110	9/23/2013	=	230	=	230	345	411
MCW-14b	1100	9/24/2013♦	=	230	=	230	336	400
MCW-14b	1100	9/25/2013	=	230	=	230	327	390
MCW-14b	1100	9/26/2013	=	230	=	230	324	387
MCW-14b	1100	9/27/2013	=	230	=	230	322	383
MCW-14b	1100	9/28/2013	=	230	=	230	319	380
MCW-14b	1100	9/29/2013	=	230	=	230	316	376
MCW-14b	1100	9/30/2013	=	230	=	230	313	373
MCW-15c	1030	9/1/2013	=	80	=	80	203	475
MCW-15c	1030	9/2/2013	=	80	=	80	198	463
MCW-15c	1015	9/3/2013♦	<	10	=	80	180	452
MCW-15c	1015	9/4/2013	<	10	=	80	164	440
MCW-15c	1015	9/5/2013	<	10	=	80	150	425
MCW-15c	1015	9/6/2013	<	10	=	80	138	411
MCW-15c	1015	9/7/2013	<	10	=	80	127	396
MCW-15c	1015	9/8/2013	<	10	=	80	116	383
MCW-15c	1015	9/9/2013	<	10	=	80	107	369
MCW-15c	1015	9/10/2013♦	=	70	=	210	105	368
MCW-15c	1015	9/11/2013	=	70	=	210	102	367
MCW-15c	1015	9/12/2013	=	70	=	210	102	347
MCW-15c	1015	9/13/2013	=	70	=	210	101	329
MCW-15c	1015	9/14/2013	=	70	=	210	100	311
MCW-15c	1015	9/15/2013	=	70	=	210	99	294
MCW-15c	1015	9/16/2013	=	70	=	210	98	278
MCW-15c	1025	9/17/2013♦	=	500	=	500	104	271
MCW-15c	1025	9/18/2013	=	500	=	500	110	264

MCW-15c	1025	9/19/2013		=	500	=	500	106	248
MCW-15c	1025	9/20/2013		=	500	=	500	101	234
MCW-15c	1025	9/21/2013		=	500	=	500	97	220
MCW-15c	1025	9/22/2013		=	500	=	500	93	208
MCW-15c	1025	9/23/2013		=	500	=	500	90	196
MCW-15c	1000	9/24/2013♦		=	9,000	=	16,000	95	207
MCW-15c	1000	9/25/2013		=	9,000	=	16,000	100	219
MCW-15c	1000	9/26/2013		=	9,000	=	16,000	117	261
MCW-15c	1000	9/27/2013		=	9,000	=	16,000	137	311
MCW-15c	1000	9/28/2013		=	9,000	=	16,000	161	372
MCW-15c	1000	9/29/2013		=	9,000	=	16,000	188	443
MCW-15c	1000	9/30/2013		=	9,000	=	16,000	220	529
MCW-17	-	9/1/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/2/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/3/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	9/4/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/5/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/6/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/7/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/8/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/9/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/10/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	9/11/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/12/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/13/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/14/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/15/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/16/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/17/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	9/18/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/19/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/20/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/21/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/22/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/23/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/24/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	9/25/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/26/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/27/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/28/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/29/2013	Dry	<	10	<	10	10	10
MCW-17	-	9/30/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/1/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/2/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/3/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	9/4/2013	Dry	<	10	<	10	10	10

MCW-18	-	9/5/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/6/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/7/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/8/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/9/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/10/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	9/11/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/12/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/13/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/14/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/15/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/16/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/17/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	9/18/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/19/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/20/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/21/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/22/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/23/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/24/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	9/25/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/26/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/27/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/28/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/29/2013	Dry	<	10	<	10	10	10
MCW-18	-	9/30/2013	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 geometric mean.

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

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

♦ Date of sampling.

November 18, 2013

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  
Herbert L. Schwind, Director

Water & Sanitation Department  
R. Reddy Pakala, Director

Central Services Department  
Janice Turner, Director

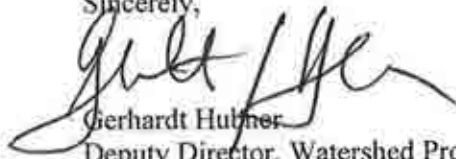
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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 October 2013. Sites were sampled weekly on Tuesdays (October 1, 8, 15, 22, and 29). 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 Hultner  
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District  
Ewelina Mutkowska, County of Ventura  
Bob Carson, 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	-	10/1/2013♦		Dry		Dry	
MCW-8b	-	10/8/2013♦		Dry		Dry	
MCW-8b	-	10/15/2013♦		Dry		Dry	
MCW-8b	-	10/22/2013♦		Dry		Dry	
MCW-8b	-	10/29/2013♦		Dry		Dry	
MCW-9	-	10/1/2013♦		Dry		Dry	
MCW-9	-	10/8/2013♦		Dry		Dry	
MCW-9	-	10/15/2013♦		Dry		Dry	
MCW-9	-	10/22/2013♦		Dry		Dry	
MCW-9	-	10/29/2013♦		Dry		Dry	
MCW-12	-	10/1/2013♦		Dry		Dry	
MCW-12	-	10/8/2013♦		Dry		Dry	
MCW-12	-	10/15/2013♦		Dry		Dry	
MCW-12	-	10/22/2013♦		Dry		Dry	
MCW-12	1035	10/29/2013♦	=	40		40	
MCW-14b	1045	10/1/2013♦	=	140	=	140	
MCW-14b	1100	10/8/2013♦	=	80	=	80	
MCW-14b	1020	10/15/2013♦	=	130	=	130	
MCW-14b	1045	10/22/2013♦	=	130	=	130	
MCW-14b	1245	10/29/2013♦	=	300	=	300	
MCW-15c	1015	10/1/2013♦	=	300	=	300	
MCW-15c	1030	10/8/2013♦	=	1,300	=	1,300	
MCW-15c	955	10/15/2013♦	=	800	=	800	
MCW-15c	1015	10/22/2013♦	=	1,100	=	1,100	
MCW-15c	110	10/29/2013♦	=	300	=	300	
MCW-17	-	10/1/2013♦		Dry		Dry	
MCW-17	-	10/8/2013♦		Dry		Dry	
MCW-17	-	10/15/2013♦		Dry		Dry	
MCW-17	-	10/22/2013♦		Dry		Dry	
MCW-17	-	10/29/2013♦		Dry		Dry	
MCW-18	-	10/1/2013♦		Dry		Dry	
MCW-18	-	10/8/2013♦		Dry		Dry	
MCW-18	-	10/15/2013♦		Dry		Dry	
MCW-18	-	10/22/2013♦		Dry		Dry	
MCW-18	-	10/29/2013♦		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 (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)		
MCW-8b	-	10/1/2013♦	Dry	<	10	<	10	15	21
MCW-8b	-	10/2/2013	Dry	<	10	<	10	14	20
MCW-8b	-	10/3/2013	Dry	<	10	<	10	13	18
MCW-8b	-	10/4/2013	Dry	<	10	<	10	12	17
MCW-8b	-	10/5/2013	Dry	<	10	<	10	11	16
MCW-8b	-	10/6/2013	Dry	<	10	<	10	11	15
MCW-8b	-	10/7/2013	Dry	<	10	<	10	10	14
MCW-8b	-	10/8/2013♦	Dry	<	10	<	10	10	14
MCW-8b	-	10/9/2013	Dry	<	10	<	10	10	14
MCW-8b	-	10/10/2013	Dry	<	10	<	10	10	14
MCW-8b	-	10/11/2013	Dry	<	10	<	10	10	14
MCW-8b	-	10/12/2013	Dry	<	10	<	10	10	14
MCW-8b	-	10/13/2013	Dry	<	10	<	10	10	14
MCW-8b	-	10/14/2013	Dry	<	10	<	10	10	14
MCW-8b	-	10/15/2013♦	Dry	<	10	<	10	10	13
MCW-8b	-	10/16/2013	Dry	<	10	<	10	10	13
MCW-8b	-	10/17/2013	Dry	<	10	<	10	10	12
MCW-8b	-	10/18/2013	Dry	<	10	<	10	10	11
MCW-8b	-	10/19/2013	Dry	<	10	<	10	10	11
MCW-8b	-	10/20/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/21/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/22/2013♦	Dry	<	10	<	10	10	10
MCW-8b	-	10/23/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/24/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/25/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/26/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/27/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/28/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/29/2013♦	Dry	<	10	<	10	10	10
MCW-8b	-	10/30/2013	Dry	<	10	<	10	10	10
MCW-8b	-	10/31/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/1/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	10/2/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/3/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/4/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/5/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/6/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/7/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/8/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	10/9/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/10/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/11/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/12/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/13/2013	Dry	<	10	<	10	10	10

MCW-9	-	10/14/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/15/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	10/16/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/17/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/18/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/19/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/20/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/21/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/22/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	10/23/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/24/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/25/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/26/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/27/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/28/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/29/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	10/30/2013	Dry	<	10	<	10	10	10
MCW-9	-	10/31/2013	Dry	<	10	<	10	10	10
MCW-12		10/1/2013♦	Dry	<	10	<	10	10	10
MCW-12		10/2/2013	Dry	<	10	<	10	10	10
MCW-12		10/3/2013	Dry	<	10	<	10	10	10
MCW-12		10/4/2013	Dry	<	10	<	10	10	10
MCW-12		10/5/2013	Dry	<	10	<	10	10	10
MCW-12		10/6/2013	Dry	<	10	<	10	10	10
MCW-12		10/7/2013	Dry	<	10	<	10	10	10
MCW-12		10/8/2013♦	Dry	<	10	<	10	10	10
MCW-12		10/9/2013	Dry	<	10	<	10	10	10
MCW-12		10/10/2013	Dry	<	10	<	10	10	10
MCW-12		10/11/2013	Dry	<	10	<	10	10	10
MCW-12		10/12/2013	Dry	<	10	<	10	10	10
MCW-12		10/13/2013	Dry	<	10	<	10	10	10
MCW-12		10/14/2013	Dry	<	10	<	10	10	10
MCW-12		10/15/2013♦	Dry	<	10	<	10	10	10
MCW-12		10/16/2013	Dry	<	10	<	10	10	10
MCW-12		10/17/2013	Dry	<	10	<	10	10	10
MCW-12		10/18/2013	Dry	<	10	<	10	10	10
MCW-12		10/19/2013	Dry	<	10	<	10	10	10
MCW-12		10/20/2013	Dry	<	10	<	10	10	10
MCW-12		10/21/2013	Dry	<	10	<	10	10	10
MCW-12		10/22/2013♦	Dry	<	10	<	10	10	10
MCW-12		10/23/2013	Dry	<	10	<	10	10	10
MCW-12		10/24/2013	Dry	<	10	<	10	10	10
MCW-12		10/25/2013	Dry	<	10	<	10	10	10
MCW-12		10/26/2013	Dry	<	10	<	10	10	10
MCW-12		10/27/2013	Dry	<	10	<	10	10	10
MCW-12		10/28/2013	Dry	<	10	<	10	10	10
MCW-12	1035	10/29/2013♦		=	40	=	40	10	10
MCW-12	1035	10/30/2013		=	40	=	40	11	11
MCW-12	1035	10/31/2013		=	40	=	40	11	11

MCW-14b	1045	10/1/2013♦	=	140	=	140	305	364
MCW-14b	1045	10/2/2013	=	140	=	140	298	355
MCW-14b	1045	10/3/2013	=	140	=	140	293	346
MCW-14b	1045	10/4/2013	=	140	=	140	288	337
MCW-14b	1045	10/5/2013	=	140	=	140	283	329
MCW-14b	1045	10/6/2013	=	140	=	140	279	320
MCW-14b	1045	10/7/2013	=	140	=	140	274	312
MCW-14b	1100	10/8/2013♦	=	80	=	80	265	299
MCW-14b	1100	10/9/2013	=	80	=	80	255	286
MCW-14b	1100	10/10/2013	=	80	=	80	236	261
MCW-14b	1100	10/11/2013	=	80	=	80	219	237
MCW-14b	1100	10/12/2013	=	80	=	80	203	216
MCW-14b	1100	10/13/2013	=	80	=	80	188	197
MCW-14b	1100	10/14/2013	=	80	=	80	174	180
MCW-14b	1020	10/15/2013♦	=	130	=	130	164	166
MCW-14b	1020	10/16/2013	=	130	=	130	154	154
MCW-14b	1020	10/17/2013	=	130	=	130	151	151
MCW-14b	1020	10/18/2013	=	130	=	130	148	148
MCW-14b	1020	10/19/2013	=	130	=	130	146	146
MCW-14b	1020	10/20/2013	=	130	=	130	143	143
MCW-14b	1020	10/21/2013	=	130	=	130	140	140
MCW-14b	1045	10/22/2013♦	=	130	=	130	138	138
MCW-14b	1045	10/23/2013	=	130	=	130	135	135
MCW-14b	1045	10/24/2013	=	130	=	130	132	132
MCW-14b	1045	10/25/2013	=	130	=	130	130	130
MCW-14b	1045	10/26/2013	=	130	=	130	127	127
MCW-14b	1045	10/27/2013	=	130	=	130	125	125
MCW-14b	1045	10/28/2013	=	130	=	130	123	123
MCW-14b	1245	10/29/2013♦	=	300	=	300	124	124
MCW-14b	1245	10/30/2013	=	300	=	300	125	125
MCW-14b	1245	10/31/2013	=	300	=	300	128	128
MCW-15c	1015	10/1/2013♦	=	300	=	300	230	553
MCW-15c	1015	10/2/2013	=	300	=	300	241	578
MCW-15c	1015	10/3/2013	=	300	=	300	270	604
MCW-15c	1015	10/4/2013	=	300	=	300	302	631
MCW-15c	1015	10/5/2013	=	300	=	300	338	659
MCW-15c	1015	10/6/2013	=	300	=	300	379	689
MCW-15c	1015	10/7/2013	=	300	=	300	424	720
MCW-15c	1030	10/8/2013♦	=	1,300	=	1,300	499	790
MCW-15c	1030	10/9/2013	=	1,300	=	1,300	587	867
MCW-15c	1030	10/10/2013	=	1,300	=	1,300	647	922
MCW-15c	1030	10/11/2013	=	1,300	=	1,300	713	979
MCW-15c	1030	10/12/2013	=	1,300	=	1,300	786	1,041
MCW-15c	1030	10/13/2013	=	1,300	=	1,300	866	1,106
MCW-15c	1030	10/14/2013	=	1,300	=	1,300	955	1,175
MCW-15c	955	10/15/2013♦	=	800	=	800	1,036	1,229
MCW-15c	955	10/16/2013	=	800	=	800	1,123	1,285
MCW-15c	955	10/17/2013	=	800	=	800	1,141	1,305
MCW-15c	955	10/18/2013	=	800	=	800	1,159	1,326

MCW-15c	955	10/19/2013		=	800	=	800	1,177	1,347
MCW-15c	955	10/20/2013		=	800	=	800	1,196	1,368
MCW-15c	955	10/21/2013		=	800	=	800	1,215	1,390
MCW-15c	1015	10/22/2013♦		=	1,100	=	1,100	1,247	1,427
MCW-15c	1015	10/23/2013		=	1,100	=	1,100	1,281	1,465
MCW-15c	1015	10/24/2013		=	1,100	=	1,100	1,194	1,339
MCW-15c	1015	10/25/2013		=	1,100	=	1,100	1,113	1,225
MCW-15c	1015	10/26/2013		=	1,100	=	1,100	1,038	1,121
MCW-15c	1015	10/27/2013		=	1,100	=	1,100	968	1,025
MCW-15c	1015	10/28/2013		=	1,100	=	1,100	902	937
MCW-15c	1310	10/29/2013♦		=	300	=	300	805	821
MCW-15c	1310	10/30/2013		=	300	=	300	719	719
MCW-15c	1310	10/31/2013		=	300	=	300	719	719
MCW-17	-	10/1/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	10/2/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/3/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/4/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/5/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/6/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/7/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/8/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	10/9/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/10/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/11/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/12/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/13/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/14/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/15/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	10/16/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/17/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/18/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/19/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/20/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/21/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/22/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	10/23/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/24/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/25/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/26/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/27/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/28/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/29/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	10/30/2013	Dry	<	10	<	10	10	10
MCW-17	-	10/31/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/1/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	10/2/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/3/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/4/2013	Dry	<	10	<	10	10	10

MCW-18	-	10/5/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/6/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/7/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/8/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	10/9/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/10/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/11/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/12/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/13/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/14/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/15/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	10/16/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/17/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/18/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/19/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/20/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/21/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/22/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	10/23/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/24/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/25/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/26/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/27/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/28/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/29/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	10/30/2013	Dry	<	10	<	10	10	10
MCW-18	-	10/31/2013	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.

December 17, 2013

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  
Herbert L. Schwind, Director

Water & Sanitation Department  
R. Reddy Pakala, Director

Central Services Department  
Janice Turner, Director

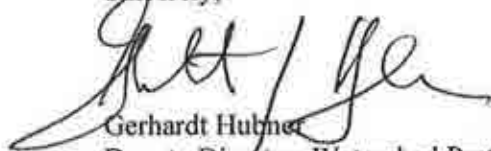
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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 November 2013. Sites were sampled weekly on Tuesdays (November 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 Hubner  
Deputy Director, Watershed Protection District

CC: Tully Clifford, Watershed Protection District  
Ewelina Mutkowska, County of Ventura  
Bob Carson, 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	-	11/5/2013◆		Dry	Dry
MCW-8b	-	11/12/2013◆		Dry	Dry
MCW-8b	-	11/19/2013◆		Dry	Dry
MCW-8b	-	11/26/2013◆		Dry	Dry
MCW-9	-	11/5/2013◆		Dry	Dry
MCW-9	-	11/12/2013◆		Dry	Dry
MCW-9	-	11/19/2013◆		Dry	Dry
MCW-9	-	11/26/2013◆		Dry	Dry
MCW-12	1040	11/5/2013◆	=	70	= 70
MCW-12	1045	11/12/2013◆	<	20	= 20
MCW-12	1115	11/19/2013◆	=	110	= 110
MCW-12	1050	11/26/2013◆	=	130	= 130
MCW-14b	1010	11/5/2013◆	=	130	= 130
MCW-14b	1020	11/12/2013◆	=	70	= 70
MCW-14b	1050	11/19/2013◆	=	40	= 40
MCW-14b	1025	11/26/2013◆	=	40	= 140
MCW-15c	935	11/5/2013◆	=	110	= 170
MCW-15c	955	11/12/2013◆	=	80	= 80
MCW-15c	1015	11/19/2013◆	<	20	< 20
MCW-15c	955	11/26/2013◆	=	20	= 20
MCW-17	-	11/5/2013◆		Dry	Dry
MCW-17	-	11/12/2013◆		Dry	Dry
MCW-17	-	11/19/2013◆		Dry	Dry
MCW-17	-	11/26/2013◆		Dry	Dry
MCW-18	-	11/5/2013◆		Dry	Dry
MCW-18	-	11/12/2013◆		Dry	Dry
MCW-18	-	11/19/2013◆		Dry	Dry
MCW-18	-	11/26/2013◆		Dry	Dry

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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 (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)	
MCW-8b	-	11/1/2013	Dry	< 10	< 10	15	21	
MCW-8b	-	11/2/2013	Dry	< 10	< 10	14	20	
MCW-8b	-	11/3/2013	Dry	< 10	< 10	13	18	
MCW-8b	-	11/4/2013	Dry	< 10	< 10	12	17	
MCW-8b	-	11/5/2013♦	Dry	< 10	< 10	11	16	
MCW-8b	-	11/6/2013	Dry	< 10	< 10	11	15	
MCW-8b	-	11/7/2013	Dry	< 10	< 10	10	14	
MCW-8b	-	11/8/2013	Dry	< 10	< 10	10	14	
MCW-8b	-	11/9/2013	Dry	< 10	< 10	10	14	
MCW-8b	-	11/10/2013	Dry	< 10	< 10	10	14	
MCW-8b	-	11/11/2013	Dry	< 10	< 10	10	14	
MCW-8b	-	11/12/2013♦	Dry	< 10	< 10	10	14	
MCW-8b	-	11/13/2013	Dry	< 10	< 10	10	14	
MCW-8b	-	11/14/2013	Dry	< 10	< 10	10	14	
MCW-8b	-	11/15/2013	Dry	< 10	< 10	10	13	
MCW-8b	-	11/16/2013	Dry	< 10	< 10	10	13	
MCW-8b	-	11/17/2013	Dry	< 10	< 10	10	12	
MCW-8b	-	11/18/2013	Dry	< 10	< 10	10	11	
MCW-8b	-	11/19/2013♦	Dry	< 10	< 10	10	11	
MCW-8b	-	11/20/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/21/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/22/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/23/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/24/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/25/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/26/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	11/27/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/28/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/29/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	11/30/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/1/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/2/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/3/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/4/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/5/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	11/6/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/7/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/8/2013	Dry	< 10	< 10	10	10	
MCW-9	-	11/9/2013	Dry	< 10	< 10	10	10	

MCW-9	-	11/10/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/11/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/12/2013◆	Dry	<	10	<	10	10	10
MCW-9	-	11/13/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/14/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/15/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/16/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/17/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/18/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/19/2013◆	Dry	<	10	<	10	10	10
MCW-9	-	11/20/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/21/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/22/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/23/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/24/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/25/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/26/2013◆	Dry	<	10	<	10	10	10
MCW-9	-	11/27/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/28/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/29/2013	Dry	<	10	<	10	10	10
MCW-9	-	11/30/2013	Dry	<	10	<	10	10	10
MCW-12	1035	11/1/2013		=	40	=	40	12	12
MCW-12	1035	11/2/2013		=	40	=	40	13	13
MCW-12	1035	11/3/2013		=	40	=	40	13	13
MCW-12	1035	11/4/2013		=	40	=	40	14	14
MCW-12	1040	11/5/2013◆		=	70	=	70	15	15
MCW-12	1040	11/6/2013		=	70	=	70	16	16
MCW-12	1040	11/7/2013		=	70	=	70	17	17
MCW-12	1040	11/8/2013		=	70	=	70	18	18
MCW-12	1040	11/9/2013		=	70	=	70	19	19
MCW-12	1040	11/10/2013		=	70	=	70	20	20
MCW-12	1040	11/11/2013		=	70	=	70	22	22
MCW-12	1045	11/12/2013◆		<	10	=	20	22	22
MCW-12	1045	11/13/2013		<	10	=	20	22	23
MCW-12	1045	11/14/2013		<	10	=	20	22	23
MCW-12	1045	11/15/2013		<	10	=	20	22	24
MCW-12	1045	11/16/2013		<	10	=	20	22	24
MCW-12	1045	11/17/2013		<	10	=	20	22	25
MCW-12	1045	11/18/2013		<	10	=	20	22	26
MCW-12	1115	11/19/2013◆		=	110	=	110	24	28
MCW-12	1115	11/20/2013		=	110	=	110	26	30
MCW-12	1115	11/21/2013		=	110	=	110	28	33
MCW-12	1115	11/22/2013		=	110	=	110	30	35
MCW-12	1115	11/23/2013		=	110	=	110	32	38
MCW-12	1115	11/24/2013		=	110	=	110	35	41
MCW-12	1115	11/25/2013		=	110	=	110	38	45

MCW-12	1050	11/26/2013◆	=	130	=	130	41	49
MCW-12	1050	11/27/2013	=	130	=	130	45	53
MCW-12	1050	11/28/2013	=	130	=	130	47	55
MCW-12	1050	11/29/2013	=	130	=	130	49	57
MCW-12	1050	11/30/2013	=	130	=	130	51	60
MCW-14b	1245	11/1/2013	=	300	=	300	131	131
MCW-14b	1245	11/2/2013	=	300	=	300	135	135
MCW-14b	1245	11/3/2013	=	300	=	300	138	138
MCW-14b	1245	11/4/2013	=	300	=	300	142	142
MCW-14b	1010	11/5/2013◆	=	130	=	130	141	141
MCW-14b	1010	11/6/2013	=	130	=	130	141	141
MCW-14b	1010	11/7/2013	=	130	=	130	143	143
MCW-14b	1010	11/8/2013	=	130	=	130	146	146
MCW-14b	1010	11/9/2013	=	130	=	130	148	148
MCW-14b	1010	11/10/2013	=	130	=	130	151	151
MCW-14b	1010	11/11/2013	=	130	=	130	153	153
MCW-14b	1020	11/12/2013◆	=	70	=	70	152	152
MCW-14b	1020	11/13/2013	=	70	=	70	152	152
MCW-14b	1020	11/14/2013	=	70	=	70	149	149
MCW-14b	1020	11/15/2013	=	70	=	70	145	145
MCW-14b	1020	11/16/2013	=	70	=	70	143	143
MCW-14b	1020	11/17/2013	=	70	=	70	140	140
MCW-14b	1020	11/18/2013	=	70	=	70	137	137
MCW-14b	1050	11/19/2013◆	=	40	=	40	131	131
MCW-14b	1050	11/20/2013	=	40	=	40	126	126
MCW-14b	1050	11/21/2013	=	40	=	40	122	122
MCW-14b	1050	11/22/2013	=	40	=	40	117	117
MCW-14b	1050	11/23/2013	=	40	=	40	112	112
MCW-14b	1050	11/24/2013	=	40	=	40	108	108
MCW-14b	1050	11/25/2013	=	40	=	40	104	104
MCW-14b	1025	11/26/2013◆	=	40	=	140	100	104
MCW-14b	1025	11/27/2013	=	40	=	140	96	104
MCW-14b	1025	11/28/2013	=	40	=	140	90	102
MCW-14b	1025	11/29/2013	=	40	=	140	84	99
MCW-14b	1025	11/30/2013	=	40	=	140	79	97
MCW-15c	1310	11/1/2013	=	300	=	300	719	719
MCW-15c	1310	11/2/2013	=	300	=	300	719	719
MCW-15c	1310	11/3/2013	=	300	=	300	719	719
MCW-15c	1310	11/4/2013	=	300	=	300	719	719
MCW-15c	935	11/5/2013◆	=	110	=	170	695	706
MCW-15c	935	11/6/2013	=	110	=	170	673	692
MCW-15c	935	11/7/2013	=	110	=	170	619	647
MCW-15c	935	11/8/2013	=	110	=	170	570	605
MCW-15c	935	11/9/2013	=	110	=	170	525	565
MCW-15c	935	11/10/2013	=	110	=	170	484	528

MCW-15c	935	11/11/2013		=	110	=	170	446	493
MCW-15c	955	11/12/2013◆		=	80	=	80	406	449
MCW-15c	955	11/13/2013		=	80	=	80	370	410
MCW-15c	955	11/14/2013		=	80	=	80	343	379
MCW-15c	955	11/15/2013		=	80	=	80	317	351
MCW-15c	955	11/16/2013		=	80	=	80	294	325
MCW-15c	955	11/17/2013		=	80	=	80	272	301
MCW-15c	955	11/18/2013		=	80	=	80	252	279
MCW-15c	1015	11/19/2013◆		<	10	<	10	218	241
MCW-15c	1015	11/20/2013		<	10	<	10	188	208
MCW-15c	1015	11/21/2013		<	10	<	10	161	178
MCW-15c	1015	11/22/2013		<	10	<	10	138	152
MCW-15c	1015	11/23/2013		<	10	<	10	118	130
MCW-15c	1015	11/24/2013		<	10	<	10	101	111
MCW-15c	1015	11/25/2013		<	10	<	10	86	95
MCW-15c	955	11/26/2013◆		=	20	=	20	75	83
MCW-15c	955	11/27/2013		=	20	=	20	66	73
MCW-15c	955	11/28/2013		=	20	=	20	60	67
MCW-15c	955	11/29/2013		=	20	=	20	55	61
MCW-15c	955	11/30/2013		=	20	=	20	50	56
MCW-17	-	11/1/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/2/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/3/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/4/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/5/2013◆	Dry	<	10	<	10	10	10
MCW-17	-	11/6/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/7/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/8/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/9/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/10/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/11/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/12/2013◆	Dry	<	10	<	10	10	10
MCW-17	-	11/13/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/14/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/15/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/16/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/17/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/18/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/19/2013◆	Dry	<	10	<	10	10	10
MCW-17	-	11/20/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/21/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/22/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/23/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/24/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/25/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/26/2013◆	Dry	<	10	<	10	10	10

MCW-17	-	11/27/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/28/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/29/2013	Dry	<	10	<	10	10	10
MCW-17	-	11/30/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/1/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/2/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/3/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/4/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/5/2013◆	Dry	<	10	<	10	10	10
MCW-18	-	11/6/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/7/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/8/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/9/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/10/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/11/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/12/2013◆	Dry	<	10	<	10	10	10
MCW-18	-	11/13/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/14/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/15/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/16/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/17/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/18/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/19/2013◆	Dry	<	10	<	10	10	10
MCW-18	-	11/20/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/21/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/22/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/23/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/24/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/25/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/26/2013◆	Dry	<	10	<	10	10	10
MCW-18	-	11/27/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/28/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/29/2013	Dry	<	10	<	10	10	10
MCW-18	-	11/30/2013	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

January 27, 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  
Herbert L. Schwind, Director

Water & Sanitation Department  
R. Reddy Pakala, Director

Central Services Department  
Janice Turner, Director

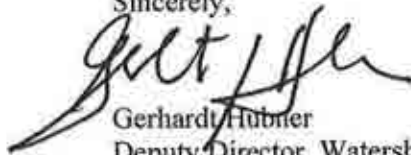
**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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 December 2013. Sites were sampled weekly on Tuesdays (December 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.

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

Sincerely,



Gerhardt Hübner  
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	-	12/3/2013♦		Dry		Dry	
MCW-8b	-	12/10/2013♦		Dry		Dry	
MCW-8b	-	12/17/2013♦		Dry		Dry	
MCW-8b	-	12/24/2013♦		Dry		Dry	
MCW-8b	-	12/31/2013♦		Dry		Dry	
MCW-9	-	12/3/2013♦		Dry		Dry	
MCW-9	-	12/10/2013♦		Dry		Dry	
MCW-9	-	12/17/2013♦		Dry		Dry	
MCW-9	-	12/24/2013♦		Dry		Dry	
MCW-9	-	12/31/2013♦		Dry		Dry	
MCW-12	1100	12/3/2013♦	=	800	=	800	
MCW-12	1130	12/10/2013♦	=	800	=	800	
MCW-12	1115	12/17/2013♦	=	40	=	40	
MCW-12	1130	12/24/2013♦	<	20	<	20	
MCW-12	1050	12/31/2013♦	<	20	<	20	
MCW-14b	1030	12/3/2013♦	=	220	=	220	
MCW-14b	1045	12/10/2013♦	=	230	=	230	
MCW-14b	1040	12/17/2013♦	=	500	=	500	
MCW-14b	1045	12/24/2013♦	=	130	=	170	
MCW-14b	1020	12/31/2013♦	=	70	=	70	
MCW-15c	945	12/3/2013♦	<	20	<	20	
MCW-15c	1015	12/10/2013♦	<	20	<	20	
MCW-15c	1000	12/17/2013♦	<	20	<	20	
MCW-15c	1015	12/24/2013♦	<	20	<	20	
MCW-15c	1000	12/31/2013♦	<	20	<	20	
MCW-17	-	12/3/2013♦		Dry		Dry	
MCW-17	-	12/10/2013♦		Dry		Dry	
MCW-17	-	12/17/2013♦		Dry		Dry	
MCW-17	-	12/24/2013♦		Dry		Dry	
MCW-17	-	12/31/2013♦		Dry		Dry	
MCW-18	-	12/3/2013♦		Dry		Dry	
MCW-18	-	12/10/2013♦		Dry		Dry	
MCW-18	-	12/17/2013♦		Dry		Dry	
MCW-18	-	12/24/2013♦		Dry		Dry	
MCW-18	-	12/31/2013♦		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 (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)	
MCW-8b	-	12/1/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/2/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/3/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	12/4/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/5/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/6/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/7/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/8/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/9/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/10/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	12/11/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/12/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/13/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/14/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/15/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/16/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/17/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	12/18/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/19/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/20/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/21/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/22/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/23/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/24/2013♦	Dry	< 10	< 10	10	10	
MCW-8b	-	12/25/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/26/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/27/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/28/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/29/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/30/2013	Dry	< 10	< 10	10	10	
MCW-8b	-	12/31/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	12/1/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/2/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/3/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	12/4/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/5/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/6/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/7/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/8/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/9/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/10/2013♦	Dry	< 10	< 10	10	10	
MCW-9	-	12/11/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/12/2013	Dry	< 10	< 10	10	10	
MCW-9	-	12/13/2013	Dry	< 10	< 10	10	10	



MCW-9	-	12/14/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/15/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/16/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/17/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	12/18/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/19/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/20/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/21/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/22/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/23/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/24/2013♦	Dry	<	10	<	10	10	10
MCW-9	-	12/25/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/26/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/27/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/28/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/29/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/30/2013	Dry	<	10	<	10	10	10
MCW-9	-	12/31/2013♦	Dry	<	10	<	10	10	10
MCW-12	1050	12/1/2013		=	130	=	130	53	62
MCW-12	1050	12/2/2013		=	130	=	130	55	65
MCW-12	1100	12/3/2013♦		=	800	=	800	61	71
MCW-12	1100	12/4/2013		=	800	=	800	67	79
MCW-12	1100	12/5/2013		=	800	=	800	73	86
MCW-12	1100	12/6/2013		=	800	=	800	79	93
MCW-12	1100	12/7/2013		=	800	=	800	86	101
MCW-12	1100	12/8/2013		=	800	=	800	93	109
MCW-12	1100	12/9/2013		=	800	=	800	101	118
MCW-12	1130	12/10/2013♦		=	800	=	800	109	128
MCW-12	1130	12/11/2013		=	800	=	800	119	139
MCW-12	1130	12/12/2013		=	800	=	800	137	158
MCW-12	1130	12/13/2013		=	800	=	800	159	178
MCW-12	1130	12/14/2013		=	800	=	800	184	202
MCW-12	1130	12/15/2013		=	800	=	800	213	228
MCW-12	1130	12/16/2013		=	800	=	800	246	258
MCW-12	1115	12/17/2013♦		=	40	=	40	258	264
MCW-12	1115	12/18/2013		=	40	=	40	270	270
MCW-12	1115	12/19/2013		=	40	=	40	261	261
MCW-12	1115	12/20/2013		=	40	=	40	252	252
MCW-12	1115	12/21/2013		=	40	=	40	244	244
MCW-12	1115	12/22/2013		=	40	=	40	236	236
MCW-12	1115	12/23/2013		=	40	=	40	228	228
MCW-12	1130	12/24/2013♦		<	10	<	10	210	210
MCW-12	1130	12/25/2013		<	10	<	10	194	194
MCW-12	1130	12/26/2013		<	10	<	10	178	178
MCW-12	1130	12/27/2013		<	10	<	10	164	164
MCW-12	1130	12/28/2013		<	10	<	10	150	150
MCW-12	1130	12/29/2013		<	10	<	10	138	138
MCW-12	1130	12/30/2013		<	10	<	10	127	127
MCW-12	1050	12/31/2013♦		<	10	<	10	116	116

MCW-14b	1025	12/1/2013	=	40	=	140	73	94
MCW-14b	1025	12/2/2013	=	40	=	140	69	92
MCW-14b	1030	12/3/2013♦	=	220	=	220	68	91
MCW-14b	1030	12/4/2013	=	220	=	220	67	90
MCW-14b	1030	12/5/2013	=	220	=	220	68	92
MCW-14b	1030	12/6/2013	=	220	=	220	70	93
MCW-14b	1030	12/7/2013	=	220	=	220	71	95
MCW-14b	1030	12/8/2013	=	220	=	220	72	97
MCW-14b	1030	12/9/2013	=	220	=	220	73	98
MCW-14b	1045	12/10/2013♦	=	230	=	230	75	100
MCW-14b	1045	12/11/2013	=	230	=	230	76	102
MCW-14b	1045	12/12/2013	=	230	=	230	79	106
MCW-14b	1045	12/13/2013	=	230	=	230	83	111
MCW-14b	1045	12/14/2013	=	230	=	230	86	115
MCW-14b	1045	12/15/2013	=	230	=	230	89	120
MCW-14b	1045	12/16/2013	=	230	=	230	93	125
MCW-14b	1040	12/17/2013♦	=	500	=	500	99	133
MCW-14b	1040	12/18/2013	=	500	=	500	106	142
MCW-14b	1040	12/19/2013	=	500	=	500	115	154
MCW-14b	1040	12/20/2013	=	500	=	500	125	168
MCW-14b	1040	12/21/2013	=	500	=	500	136	183
MCW-14b	1040	12/22/2013	=	500	=	500	148	199
MCW-14b	1040	12/23/2013	=	500	=	500	161	216
MCW-14b	1045	12/24/2013♦	=	130	=	170	168	227
MCW-14b	1045	12/25/2013	=	130	=	170	175	238
MCW-14b	1045	12/26/2013	=	130	=	170	182	240
MCW-14b	1045	12/27/2013	=	130	=	170	189	241
MCW-14b	1045	12/28/2013	=	130	=	170	196	243
MCW-14b	1045	12/29/2013	=	130	=	170	204	244
MCW-14b	1045	12/30/2013	=	130	=	170	213	246
MCW-14b	1020	12/31/2013♦	=	70	=	70	217	240
MCW-15c	955	12/1/2013	=	20	=	20	46	51
MCW-15c	955	12/2/2013	=	20	=	20	42	46
MCW-15c	945	12/3/2013♦	<	10	<	10	37	41
MCW-15c	945	12/4/2013	<	10	<	10	33	37
MCW-15c	945	12/5/2013	<	10	<	10	31	34
MCW-15c	945	12/6/2013	<	10	<	10	28	31
MCW-15c	945	12/7/2013	<	10	<	10	26	28
MCW-15c	945	12/8/2013	<	10	<	10	24	25
MCW-15c	945	12/9/2013	<	10	<	10	22	23
MCW-15c	1015	12/10/2013♦	<	10	<	10	21	21
MCW-15c	1015	12/11/2013	<	10	<	10	19	19
MCW-15c	1015	12/12/2013	<	10	<	10	18	18
MCW-15c	1015	12/13/2013	<	10	<	10	17	17
MCW-15c	1015	12/14/2013	<	10	<	10	16	16
MCW-15c	1015	12/15/2013	<	10	<	10	14	14
MCW-15c	1015	12/16/2013	<	10	<	10	14	14
MCW-15c	1000	12/17/2013♦	<	10	<	10	13	13
MCW-15c	1000	12/18/2013	<	10	<	10	12	12

MCW-15c	1000	12/19/2013		<	10	<	10	12	12
MCW-15c	1000	12/20/2013		<	10	<	10	12	12
MCW-15c	1000	12/21/2013		<	10	<	10	12	12
MCW-15c	1000	12/22/2013		<	10	<	10	12	12
MCW-15c	1000	12/23/2013		<	10	<	10	12	12
MCW-15c	1015	12/24/2013♦		<	10	<	10	12	12
MCW-15c	1015	12/25/2013		<	10	<	10	12	12
MCW-15c	1015	12/26/2013		<	10	<	10	11	11
MCW-15c	1015	12/27/2013		<	10	<	10	11	11
MCW-15c	1015	12/28/2013		<	10	<	10	11	11
MCW-15c	1015	12/29/2013		<	10	<	10	11	11
MCW-15c	1015	12/30/2013		<	10	<	10	10	10
MCW-15c	1000	12/31/2013♦		<	10	<	10	10	10
MCW-17	-	12/1/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/2/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/3/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	12/4/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/5/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/6/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/7/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/8/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/9/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/10/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	12/11/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/12/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/13/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/14/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/15/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/16/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/17/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	12/18/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/19/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/20/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/21/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/22/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/23/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/24/2013♦	Dry	<	10	<	10	10	10
MCW-17	-	12/25/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/26/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/27/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/28/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/29/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/30/2013	Dry	<	10	<	10	10	10
MCW-17	-	12/31/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	12/1/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/2/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/3/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	12/4/2013	Dry	<	10	<	10	10	10

MCW-18	-	12/5/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/6/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/7/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/8/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/9/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/10/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	12/11/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/12/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/13/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/14/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/15/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/16/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/17/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	12/18/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/19/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/20/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/21/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/22/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/23/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/24/2013♦	Dry	<	10	<	10	10	10
MCW-18	-	12/25/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/26/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/27/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/28/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/29/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/30/2013	Dry	<	10	<	10	10	10
MCW-18	-	12/31/2013♦	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 geometric mean.

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

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

♦Date of sampling

February 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

Transportation Department  
David Fleisch, Director

Engineering Services Department  
Herbert L. 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 January 2014. Sites were sampled weekly on Tuesdays (January 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



**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample (as sampled)	
				E. coli (235 MPN)	Fecal (400 MPN)
MCW-8b	-	1/7/2014♦		Dry	Dry
MCW-8b	-	1/14/2014♦		Dry	Dry
MCW-8b	-	1/21/2014♦		Dry	Dry
MCW-8b	-	1/28/2014♦		Dry	Dry
MCW-9	-	1/7/2014♦		Dry	Dry
MCW-9	-	1/14/2014♦		Dry	Dry
MCW-9	-	1/21/2014♦		Dry	Dry
MCW-9	-	1/28/2014♦		Dry	Dry
MCW-12	1045	1/7/2014♦	=	40	40
MCW-12	1230	1/14/2014♦	<	20	20
MCW-12	1115	1/21/2014♦	<	20	20
MCW-12	1035	1/28/2014♦	=	20	20
MCW-14b	1020	1/7/2014♦	=	40	40
MCW-14b	1200	1/14/2014♦	=	300	300
MCW-14b	1040	1/21/2014♦	=	130	220
MCW-14b	1010	1/28/2014♦	=	230	230
MCW-15c	955	1/7/2014♦	=	20	20
MCW-15c	1115	1/14/2014♦	=	20	20
MCW-15c	1000	1/21/2014♦	=	90	90
MCW-15c	940	1/28/2014♦	=	20	80
MCW-17	-	1/7/2014♦		Dry	Dry
MCW-17	-	1/14/2014♦		Dry	Dry
MCW-17	-	1/21/2014♦		Dry	Dry
MCW-17	-	1/28/2014♦		Dry	Dry
MCW-18	-	1/7/2014♦		Dry	Dry
MCW-18	-	1/14/2014♦		Dry	Dry
MCW-18	-	1/21/2014♦		Dry	Dry
MCW-18	-	1/28/2014♦		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

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

MCW-9	-	1/14/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	1/15/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/21/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	1/22/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/28/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	1/29/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/30/2014	Dry	<	10	<	10	10	10
MCW-9	-	1/31/2014	Dry	<	10	<	10	10	10
MCW-12	1050	1/1/2014		<	10	<	10	107	107
MCW-12	1050	1/2/2014		<	10	<	10	92	92
MCW-12	1050	1/3/2014		<	10	<	10	80	80
MCW-12	1050	1/4/2014		<	10	<	10	69	69
MCW-12	1050	1/5/2014		<	10	<	10	60	60
MCW-12	1050	1/6/2014		<	10	<	10	51	51
MCW-12	1045	1/7/2014◆		=	40	=	40	47	47
MCW-12	1045	1/8/2014		=	40	=	40	42	42
MCW-12	1045	1/9/2014		=	40	=	40	38	38
MCW-12	1045	1/10/2014		=	40	=	40	35	35
MCW-12	1045	1/11/2014		=	40	=	40	31	31
MCW-12	1045	1/12/2014		=	40	=	40	28	28
MCW-12	1045	1/13/2014		=	40	=	40	26	26
MCW-12	1230	1/14/2014◆		<	10	<	10	22	22
MCW-12	1230	1/15/2014		<	10	<	10	19	19
MCW-12	1230	1/16/2014		<	10	<	10	18	18
MCW-12	1230	1/17/2014		<	10	<	10	17	17
MCW-12	1230	1/18/2014		<	10	<	10	17	17
MCW-12	1230	1/19/2014		<	10	<	10	16	16
MCW-12	1230	1/20/2014		<	10	<	10	15	15
MCW-12	1115	1/21/2014◆		<	10	<	10	14	14
MCW-12	1115	1/22/2014		<	10	<	10	14	14
MCW-12	1115	1/23/2014		<	10	<	10	14	14
MCW-12	1115	1/24/2014		<	10	<	10	14	14
MCW-12	1115	1/25/2014		<	10	<	10	14	14
MCW-12	1115	1/26/2014		<	10	<	10	14	14
MCW-12	1115	1/27/2014		<	10	<	10	14	14
MCW-12	1035	1/28/2014◆		=	20	=	20	14	14
MCW-12	1035	1/29/2014		=	20	=	20	14	14
MCW-12	1035	1/30/2014		=	20	=	20	15	15
MCW-12	1035	1/31/2014		=	20	=	20	15	15



MCW-14b	1020	1/1/2014	=	70	=	70	221	235
MCW-14b	1020	1/2/2014	=	70	=	70	212	226
MCW-14b	1020	1/3/2014	=	70	=	70	204	218
MCW-14b	1020	1/4/2014	=	70	=	70	197	209
MCW-14b	1020	1/5/2014	=	70	=	70	189	202
MCW-14b	1020	1/6/2014	=	70	=	70	182	194
MCW-14b	1020	1/7/2014♦	=	40	=	40	172	183
MCW-14b	1020	1/8/2014	=	41	=	41	163	173
MCW-14b	1020	1/9/2014	=	42	=	42	154	164
MCW-14b	1020	1/10/2014	=	43	=	43	146	155
MCW-14b	1020	1/11/2014	=	44	=	44	138	147
MCW-14b	1020	1/12/2014	=	45	=	45	130	139
MCW-14b	1020	1/13/2014	=	46	=	46	124	132
MCW-14b	1200	1/14/2014♦	=	300	=	300	125	133
MCW-14b	1200	1/15/2014	=	300	=	300	126	134
MCW-14b	1200	1/16/2014	=	300	=	300	124	132
MCW-14b	1200	1/17/2014	=	300	=	300	122	129
MCW-14b	1200	1/18/2014	=	300	=	300	120	127
MCW-14b	1200	1/19/2014	=	300	=	300	118	125
MCW-14b	1200	1/20/2014	=	300	=	300	116	123
MCW-14b	1040	1/21/2014♦	=	130	=	220	110	120
MCW-14b	1040	1/22/2014	=	130	=	220	106	116
MCW-14b	1040	1/23/2014	=	130	=	220	106	117
MCW-14b	1040	1/24/2014	=	130	=	220	106	118
MCW-14b	1040	1/25/2014	=	130	=	220	106	119
MCW-14b	1040	1/26/2014	=	130	=	220	106	121
MCW-14b	1040	1/27/2014	=	130	=	220	106	122
MCW-14b	1010	1/28/2014♦	=	230	=	230	108	123
MCW-14b	1010	1/29/2014	=	230	=	230	110	124
MCW-14b	1010	1/30/2014	=	230	=	230	114	129
MCW-14b	1010	1/31/2014	=	230	=	230	119	134
MCW-15c	1000	1/1/2014	<	10	<	10	10	10
MCW-15c	1000	1/2/2014	<	10	<	10	10	10
MCW-15c	1000	1/3/2014	<	10	<	10	10	10
MCW-15c	1000	1/4/2014	<	10	<	10	10	10
MCW-15c	1000	1/5/2014	<	10	<	10	10	10
MCW-15c	1000	1/6/2014	<	10	<	10	10	10
MCW-15c	955	1/7/2014♦	=	20	=	20	10	10
MCW-15c	955	1/8/2014	=	20	=	20	10	10
MCW-15c	955	1/9/2014	=	20	=	20	11	11
MCW-15c	955	1/10/2014	=	20	=	20	11	11
MCW-15c	955	1/11/2014	=	20	=	20	11	11
MCW-15c	955	1/12/2014	=	20	=	20	11	11
MCW-15c	955	1/13/2014	=	20	=	20	12	12
MCW-15c	1115	1/14/2014♦	=	20	=	20	12	12
MCW-15c	1115	1/15/2014	=	20	=	20	12	12
MCW-15c	1115	1/16/2014	=	20	=	20	13	13
MCW-15c	1115	1/17/2014	=	20	=	20	13	13
MCW-15c	1115	1/18/2014	=	20	=	20	13	13

MCW-15c	1115	1/19/2014		=	20	=	20	14	14
MCW-15c	1115	1/20/2014		=	20	=	20	14	14
MCW-15c	1000	1/21/2014♦		=	90	=	90	15	15
MCW-15c	1000	1/22/2014		=	90	=	90	16	16
MCW-15c	1000	1/23/2014		=	90	=	90	17	17
MCW-15c	1000	1/24/2014		=	90	=	90	19	19
MCW-15c	1000	1/25/2014		=	90	=	90	20	20
MCW-15c	1000	1/26/2014		=	90	=	90	21	21
MCW-15c	1000	1/27/2014		=	90	=	90	23	23
MCW-15c	940	1/28/2014♦		=	20	=	80	24	25
MCW-15c	940	1/29/2014		=	20	=	80	24	27
MCW-15c	940	1/30/2014		=	20	=	80	25	28
MCW-15c	940	1/31/2014		=	20	=	80	25	30
MCW-17	-	1/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/3/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/7/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	1/8/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/12/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/14/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	1/15/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/19/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/21/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	1/22/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/28/2014♦	Dry	<	10	<	10	10	10
MCW-17	-	1/29/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/30/2014	Dry	<	10	<	10	10	10
MCW-17	-	1/31/2014	Dry	<	10	<	10	10	10
MCW-18	-	1/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	1/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	1/3/2014	Dry	<	10	<	10	10	10
MCW-18	-	1/4/2014	Dry	<	10	<	10	10	10

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

# Ventura County Watershed Protection District



PUBLIC WORKS AGENCY  
JEFF PRATT  
Agency Director

April 22, 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

Tully Clifford, Director  
Watershed Protection District  
  
Gerhardt Hubner  
Water/Environmental Resources  
  
Karl Novak  
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Peter Sheydayl  
Design/Construction  
  
Sergio Vargas  
Planning/Regulatory

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

Dear Dr. Wang,

The revised 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 February 2014. Sites were sampled weekly on Tuesdays (February 4 and 25), except for two instances when sites were sampled on Wednesday (February 12 and 19) 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	-	2/4/2014♦		Dry		Dry	
MCW-8b	-	2/12/2014♦		Dry		Dry	
MCW-8b	-	2/19/2014♦		Dry		Dry	
MCW-8b	-	2/25/2014♦		Dry		Dry	
MCW-9	-	2/4/2014♦		Dry		Dry	
MCW-9	-	2/12/2014♦		Dry		Dry	
MCW-9	-	2/19/2014♦		Dry		Dry	
MCW-9	-	2/25/2014♦		Dry		Dry	
MCW-12	1215	2/4/2014♦		=	20	=	20
MCW-12	1045	2/12/2014♦		=	170	=	170
MCW-12	1145	2/19/2014♦		=	230	=	230
MCW-12	1135	2/25/2014♦		=	140	=	140
MCW-14b	1120	2/4/2014♦		=	130	=	230
MCW-14b	1015	2/12/2014♦		=	40	=	40
MCW-14b	1035	2/19/2014♦		=	160	=	160
MCW-14b	1105	2/25/2014♦		=	230	=	230
MCW-15c	1030	2/4/2014♦		<	20	<	20
MCW-15c	1000	2/12/2014♦		<	20	<	20
MCW-15c	1015	2/19/2014♦		=	40	=	40
MCW-15c	1035	2/25/2014♦		<	20	<	20
MCW-17	-	2/4/2014♦		Dry		Dry	
MCW-17	-	2/12/2014♦		Dry		Dry	
MCW-17	-	2/19/2014♦		Dry		Dry	
MCW-17	-	2/25/2014♦		Dry		Dry	
MCW-18	-	2/4/2014♦		Dry		Dry	
MCW-18	-	2/12/2014♦		Dry		Dry	
MCW-18	-	2/19/2014♦		Dry		Dry	
MCW-18	-	2/25/2014♦		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





MCW-14b	1010	2/1/2014	=	230	=	230	124	140
MCW-14b	1010	2/2/2014	=	230	=	230	129	145
MCW-14b	1010	2/3/2014	=	230	=	230	134	151
MCW-14b	1120	2/4/2014◆	=	130	=	230	137	157
MCW-14b	1120	2/5/2014	=	130	=	230	139	164
MCW-14b	1120	2/6/2014	=	130	=	230	145	174
MCW-14b	1120	2/7/2014	=	130	=	230	151	184
MCW-14b	1120	2/8/2014	=	130	=	230	156	195
MCW-14b	1120	2/9/2014	=	130	=	230	162	206
MCW-14b	1120	2/10/2014	=	130	=	230	168	217
MCW-14b	1120	2/11/2014	=	130	=	230	174	230
MCW-14b	1015	2/12/2014◆	=	40	=	40	174	228
MCW-14b	1015	2/13/2014	=	40	=	40	162	214
MCW-14b	1015	2/14/2014	=	40	=	40	152	200
MCW-14b	1015	2/15/2014	=	40	=	40	142	187
MCW-14b	1015	2/16/2014	=	40	=	40	133	175
MCW-14b	1015	2/17/2014	=	40	=	40	124	163
MCW-14b	1015	2/18/2014	=	40	=	40	116	153
MCW-14b	1035	2/19/2014◆	=	160	=	160	114	150
MCW-14b	1035	2/20/2014	=	160	=	160	114	148
MCW-14b	1035	2/21/2014	=	160	=	160	115	146
MCW-14b	1035	2/22/2014	=	160	=	160	116	145
MCW-14b	1035	2/23/2014	=	160	=	160	117	143
MCW-14b	1035	2/24/2014	=	160	=	160	118	142
MCW-14b	1105	2/25/2014◆	=	230	=	230	120	142
MCW-14b	1105	2/26/2014	=	230	=	230	122	142
MCW-14b	1105	2/27/2014	=	230	=	230	122	142
MCW-14b	1105	2/28/2014	=	230	=	230	122	142
MCW-15c	940	2/1/2014	=	20	=	80	26	33
MCW-15c	940	2/2/2014	=	20	=	80	27	35
MCW-15c	940	2/3/2014	=	20	=	80	27	37
MCW-15c	1030	2/4/2014◆	<	10	<	10	27	37
MCW-15c	1030	2/5/2014	<	10	<	10	27	37
MCW-15c	1030	2/6/2014	<	10	<	10	27	37
MCW-15c	1030	2/7/2014	<	10	<	10	26	36
MCW-15c	1030	2/8/2014	<	10	<	10	25	35
MCW-15c	1030	2/9/2014	<	10	<	10	25	34
MCW-15c	1030	2/10/2014	<	10	<	10	24	33
MCW-15c	1030	2/11/2014	<	10	<	10	24	33
MCW-15c	1000	2/12/2014◆	<	10	<	10	23	32
MCW-15c	1000	2/13/2014	<	10	<	10	23	31
MCW-15c	1000	2/14/2014	<	10	<	10	22	30
MCW-15c	1000	2/15/2014	<	10	<	10	22	30
MCW-15c	1000	2/16/2014	<	10	<	10	21	29
MCW-15c	1000	2/17/2014	<	10	<	10	21	28
MCW-15c	1000	2/18/2014	<	10	<	10	20	28



MCW-15c	1015	2/19/2014◆		=	40	=	40	21	28
MCW-15c	1015	2/20/2014		=	40	=	40	20	28
MCW-15c	1015	2/21/2014		=	40	=	40	19	27
MCW-15c	1015	2/22/2014		=	40	=	40	19	26
MCW-15c	1015	2/23/2014		=	40	=	40	18	25
MCW-15c	1015	2/24/2014		=	40	=	40	18	25
MCW-15c	1035	2/25/2014◆		<	10	<	10	17	23
MCW-15c	1035	2/26/2014		<	10	<	10	16	21
MCW-15c	1035	2/27/2014		<	10	<	10	15	20
MCW-15c	1035	2/28/2014		<	10	<	10	15	19
MCW-17	-	2/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/3/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/4/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	2/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/7/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/8/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/12/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	2/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/14/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/15/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/19/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	2/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/21/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/22/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/25/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	2/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	2/28/2014	Dry	<	10	<	10	10	10
MCW-18	-	2/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	2/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	2/3/2014	Dry	<	10	<	10	10	10
MCW-18	-	2/4/2014◆	Dry	<	10	<	10	10	10

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

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

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

♦Date of sampling

# Ventura County Watershed Protection District



PUBLIC WORKS AGENCY  
JEFF PRATT  
Agency Director

April 22, 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

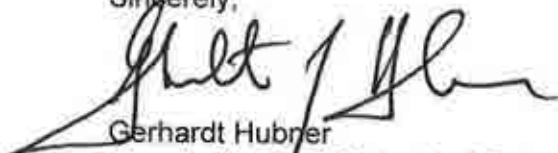
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND  
OAKS**

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 March 2014. Sites were sampled weekly on Tuesdays (March 4, 11, 18 and 25). 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

Tully Clifford, Director  
Watershed Protection District

Gerhardt Hubner  
Water/Environmental Resources

Karl Novak  
Operations/Maintenance

Peter Sheydayl  
Design/Construction

Sergio Vargas  
Planning/Regulatory

**Table I. Weekly sampling results**

Location	Time	Date	Rain	Single Sample		(as sampled)	
				E. coli (235 MPN)		Fecal (400 MPN)	
MCW-8b	-	3/4/2014♦			Dry		Dry
MCW-8b	-	3/11/2014♦			Dry		Dry
MCW-8b	-	3/18/2014♦			Dry		Dry
MCW-8b	-	3/25/2014♦			Dry		Dry
MCW-9	-	3/4/2014♦			Dry		Dry
MCW-9	-	3/11/2014♦			Dry		Dry
MCW-9	-	3/18/2014♦			Dry		Dry
MCW-9	-	3/25/2014♦			Dry		Dry
MCW-12	1225	3/4/2014♦	Rain	=	300	=	300
MCW-12	1045	3/11/2014♦		=	230	=	230
MCW-12	1115	3/18/2014♦		=	40	=	40
MCW-12	1110	3/25/2014♦		=	500	=	500
MCW-14b	1200	3/4/2014♦	Rain	=	800	=	800
MCW-14b	1020	3/11/2014♦		=	800	=	800
MCW-14b	1035	3/18/2014♦		=	80	=	80
MCW-14b	1045	3/25/2014♦		=	300	=	300
MCW-15c	1130	3/4/2014♦	Rain	=	70	=	70
MCW-15c	1000	3/11/2014♦		=	90	=	90
MCW-15c	1010	3/18/2014♦		=	700	=	700
MCW-15c	1015	3/25/2014♦		=	20	=	20
MCW-17	-	3/4/2014♦			Dry		Dry
MCW-17	-	3/11/2014♦			Dry		Dry
MCW-17	-	3/18/2014♦			Dry		Dry
MCW-17	-	3/25/2014♦			Dry		Dry
MCW-18	-	3/4/2014♦			Dry		Dry
MCW-18	-	3/11/2014♦			Dry		Dry
MCW-18	-	3/18/2014♦			Dry		Dry
MCW-18	-	3/25/2014♦			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 (235 MPN)	Fecal (400 MPN)	E. coli (126 MPN)	Fecal (200 MPN)		
MCW-8b	-	3/1/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/2/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/3/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/4/2014♦	Dry	<	10	<	10	10	10
MCW-8b	-	3/5/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/6/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/7/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/8/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/9/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/10/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/11/2014♦	Dry	<	10	<	10	10	10
MCW-8b	-	3/12/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/13/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/14/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/15/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/16/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/17/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/18/2014♦	Dry	<	10	<	10	10	10
MCW-8b	-	3/19/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/20/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/21/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/22/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/23/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/24/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/25/2014♦	Dry	<	10	<	10	10	10
MCW-8b	-	3/26/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/27/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/28/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/29/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/30/2014	Dry	<	10	<	10	10	10
MCW-8b	-	3/31/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/1/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/2/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/3/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/4/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	3/5/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/6/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/7/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/8/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/9/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/10/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/11/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	3/12/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/13/2014	Dry	<	10	<	10	10	10

MCW-9	-	3/14/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/15/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/18/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	3/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/21/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/22/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/25/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	3/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/28/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/29/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/30/2014	Dry	<	10	<	10	10	10
MCW-9	-	3/31/2014	Dry	<	10	<	10	10	10
MCW-12	1135	3/1/2014		=	140	=	140	74	74
MCW-12	1135	3/2/2014		=	140	=	140	79	79
MCW-12	1135	3/3/2014		=	140	=	140	85	85
MCW-12	1225	3/4/2014◆			**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1225	3/5/2014			**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1225	3/6/2014			**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1225	3/7/2014			**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1225	3/8/2014			**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1225	3/9/2014			**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1225	3/10/2014			**Rain**		**Rain**	**Rain**	**Rain**
MCW-12	1045	3/11/2014◆		=	230	=	230	92	92
MCW-12	1045	3/12/2014		=	230	=	230	100	100
MCW-12	1045	3/13/2014		=	230	=	230	108	108
MCW-12	1045	3/14/2014		=	230	=	230	117	117
MCW-12	1045	3/15/2014		=	230	=	230	127	127
MCW-12	1045	3/16/2014		=	230	=	230	138	138
MCW-12	1045	3/17/2014		=	230	=	230	150	150
MCW-12	1115	3/18/2014◆		=	40	=	40	153	153
MCW-12	1115	3/19/2014		=	40	=	40	157	157
MCW-12	1115	3/20/2014		=	40	=	40	160	160
MCW-12	1115	3/21/2014		=	40	=	40	153	153
MCW-12	1115	3/22/2014		=	40	=	40	146	146
MCW-12	1115	3/23/2014		=	40	=	40	139	139
MCW-12	1115	3/24/2014		=	40	=	40	132	132
MCW-12	1110	3/25/2014◆		=	500	=	500	137	137
MCW-12	1110	3/26/2014		=	500	=	500	142	142
MCW-12	1110	3/27/2014		=	500	=	500	147	147
MCW-12	1110	3/28/2014		=	500	=	500	151	151
MCW-12	1110	3/29/2014		=	500	=	500	155	155
MCW-12	1110	3/30/2014		=	500	=	500	159	159
MCW-12	1110	3/31/2014		=	500	=	500	163	163

MCW-14b	3/1/2014	=	230	=	230	122	142
MCW-14b	3/2/2014	=	230	=	230	122	142
MCW-14b	3/3/2014	=	230	=	230	122	142
MCW-14b	3/4/2014◆		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	3/5/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	3/6/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	3/7/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	3/8/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	3/9/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	3/10/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-14b	3/11/2014◆	=	800	=	800	127	148
MCW-14b	3/12/2014	=	800	=	800	133	155
MCW-14b	3/13/2014	=	800	=	800	141	161
MCW-14b	3/14/2014	=	800	=	800	150	168
MCW-14b	3/15/2014	=	800	=	800	158	177
MCW-14b	3/16/2014	=	800	=	800	168	184
MCW-14b	3/17/2014	=	800	=	800	178	191
MCW-14b	3/18/2014◆	=	80	=	80	175	185
MCW-14b	3/19/2014	=	80	=	80	172	179
MCW-14b	3/20/2014	=	80	=	80	170	173
MCW-14b	3/21/2014	=	80	=	80	167	167
MCW-14b	3/22/2014	=	80	=	80	171	171
MCW-14b	3/23/2014	=	80	=	80	175	175
MCW-14b	3/24/2014	=	80	=	80	179	179
MCW-14b	3/25/2014◆	=	300	=	300	201	201
MCW-14b	3/26/2014	=	300	=	300	215	215
MCW-14b	3/27/2014	=	300	=	300	230	230
MCW-14b	3/28/2014	=	300	=	300	235	235
MCW-14b	3/29/2014	=	300	=	300	239	239
MCW-14b	3/30/2014	=	300	=	300	245	245
MCW-14b	3/31/2014	=	300	=	300	250	250
MCW-15c	3/1/2014	<	10	<	10	14	17
MCW-15c	3/2/2014	<	10	<	10	14	16
MCW-15c	3/3/2014	<	10	<	10	14	15
MCW-15c	3/4/2014◆		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	3/5/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	3/6/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	3/7/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	3/8/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	3/9/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	3/10/2014		**Rain**		**Rain**	**Rain**	**Rain**
MCW-15c	3/11/2014◆	=	90	=	90	15	15
MCW-15c	3/12/2014	=	90	=	90	15	15
MCW-15c	3/13/2014	=	90	=	90	16	16
MCW-15c	3/14/2014	=	90	=	90	18	18
MCW-15c	3/15/2014	=	90	=	90	19	19
MCW-15c	3/16/2014	=	90	=	90	20	20
MCW-15c	3/17/2014	=	90	=	90	22	22
MCW-15c	3/18/2014◆	=	700	=	700	25	25

MCW-15c		3/19/2014	=	700	=	700	29	29
MCW-15c		3/20/2014	=	700	=	700	34	34
MCW-15c		3/21/2014	=	700	=	700	39	39
MCW-15c		3/22/2014	=	700	=	700	45	45
MCW-15c		3/23/2014	=	700	=	700	52	52
MCW-15c		3/24/2014	=	700	=	700	59	59
MCW-15c		3/25/2014◆	=	20	=	20	61	61
MCW-15c		3/26/2014	=	20	=	20	62	62
MCW-15c		3/27/2014	=	20	=	20	64	64
MCW-15c		3/28/2014	=	20	=	20	62	62
MCW-15c		3/29/2014	=	20	=	20	61	61
MCW-15c		3/30/2014	=	20	=	20	59	59
MCW-15c		3/31/2014	=	20	=	20	58	58
MCW-17	-	3/1/2014	Dry	<	10	<	10	10
MCW-17	-	3/2/2014	Dry	<	10	<	10	10
MCW-17	-	3/3/2014	Dry	<	10	<	10	10
MCW-17	-	3/4/2014◆	Dry	<	10	<	10	10
MCW-17	-	3/5/2014	Dry	<	10	<	10	10
MCW-17	-	3/6/2014	Dry	<	10	<	10	10
MCW-17	-	3/7/2014	Dry	<	10	<	10	10
MCW-17	-	3/8/2014	Dry	<	10	<	10	10
MCW-17	-	3/9/2014	Dry	<	10	<	10	10
MCW-17	-	3/10/2014	Dry	<	10	<	10	10
MCW-17	-	3/11/2014◆	Dry	<	10	<	10	10
MCW-17	-	3/12/2014	Dry	<	10	<	10	10
MCW-17	-	3/13/2014	Dry	<	10	<	10	10
MCW-17	-	3/14/2014	Dry	<	10	<	10	10
MCW-17	-	3/15/2014	Dry	<	10	<	10	10
MCW-17	-	3/16/2014	Dry	<	10	<	10	10
MCW-17	-	3/17/2014	Dry	<	10	<	10	10
MCW-17	-	3/18/2014◆	Dry	<	10	<	10	10
MCW-17	-	3/19/2014	Dry	<	10	<	10	10
MCW-17	-	3/20/2014	Dry	<	10	<	10	10
MCW-17	-	3/21/2014	Dry	<	10	<	10	10
MCW-17	-	3/22/2014	Dry	<	10	<	10	10
MCW-17	-	3/23/2014	Dry	<	10	<	10	10
MCW-17	-	3/24/2014	Dry	<	10	<	10	10
MCW-17	-	3/25/2014◆	Dry	<	10	<	10	10
MCW-17	-	3/26/2014	Dry	<	10	<	10	10
MCW-17	-	3/27/2014	Dry	<	10	<	10	10
MCW-17	-	3/28/2014	Dry	<	10	<	10	10
MCW-17	-	3/29/2014	Dry	<	10	<	10	10
MCW-17	-	3/30/2014	Dry	<	10	<	10	10
MCW-17	-	3/31/2014	Dry	<	10	<	10	10
MCW-18	-	3/1/2014	Dry	<	10	<	10	10
MCW-18	-	3/2/2014	Dry	<	10	<	10	10
MCW-18	-	3/3/2014	Dry	<	10	<	10	10
MCW-18	-	3/4/2014◆	Dry	<	10	<	10	10



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

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

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

♦ Date of sampling

May 27, 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  
Herbert L. Schwind, Director

Water & Sanitation Department  
R. Reddy Pakala, Director

Central Services Department  
Janice Turner, Director

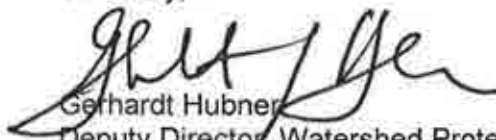
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF  
THOUSAND OAKS**

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 April 2014. Sites were sampled weekly on Tuesdays (April 1, 8, 15, 22 and 29). 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	-	4/1/2014♦		Dry		Dry	
MCW-8b	-	4/8/2014♦		Dry		Dry	
MCW-8b	-	4/15/2014♦		Dry		Dry	
MCW-8b	-	4/22/2014♦		Dry		Dry	
MCW-8b	-	4/29/2014♦		Dry		Dry	
MCW-9	-	4/1/2014♦		Dry		Dry	
MCW-9	-	4/8/2014♦		Dry		Dry	
MCW-9	-	4/15/2014♦		Dry		Dry	
MCW-9	-	4/22/2014♦		Dry		Dry	
MCW-9	-	4/29/2014♦		Dry		Dry	
MCW-12	1120	4/1/2014♦	=	3,000	=	3,000	
MCW-12	1115	4/8/2014♦	=	300	=	300	
MCW-12	1100	4/15/2014♦	=	130	=	170	
MCW-12	1055	4/22/2014♦	=	20	=	40	
MCW-12	1100	4/29/2014♦	=	20	=	20	
MCW-14b	1015	4/1/2014♦	≥	16,000	≥	16,000	
MCW-14b	1040	4/8/2014♦	=	800	=	1,100	
MCW-14b	1040	4/15/2014♦	=	500	=	500	
MCW-14b	1030	4/22/2014♦	=	300	=	300	
MCW-14b	1030	4/29/2014♦	=	230	=	300	
MCW-15c	1015	4/1/2014♦	=	80	=	80	
MCW-15c	1015	4/8/2014♦	=	80	=	80	
MCW-15c	1015	4/15/2014♦	=	170	=	170	
MCW-15c	1000	4/22/2014♦	=	230	=	230	
MCW-15c	945	4/29/2014♦	=	500	=	500	
MCW-17	-	4/1/2014♦		Dry		Dry	
MCW-17	-	4/8/2014♦		Dry		Dry	
MCW-17	-	4/15/2014♦		Dry		Dry	
MCW-17	-	4/22/2014♦		Dry		Dry	
MCW-17	-	4/29/2014♦		Dry		Dry	
MCW-18	-	4/1/2014♦		Dry		Dry	
MCW-18	-	4/8/2014♦		Dry		Dry	
MCW-18	-	4/15/2014♦		Dry		Dry	
MCW-18	-	4/22/2014♦		Dry		Dry	
MCW-18	-	4/29/2014♦		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.

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

MCW-9	-	4/14/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/15/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	4/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/20/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/21/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/22/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	4/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/28/2014	Dry	<	10	<	10	10	10
MCW-9	-	4/29/2014◆	Dry	<	10	<	10	10	10
MCW-9	-	4/30/2014	Dry	<	10	<	10	10	10
MCW-12	1120	4/1/2014◆		=	3,000	=	3,000	178	178
MCW-12	1120	4/2/2014		=	3,000	=	3,000	194	194
MCW-12	1120	4/3/2014		=	3,000	=	3,000	215	215
MCW-12	1120	4/4/2014		=	3,000	=	3,000	238	238
MCW-12	1120	4/5/2014		=	3,000	=	3,000	263	263
MCW-12	1120	4/6/2014		=	3,000	=	3,000	292	292
MCW-12	1120	4/7/2014		=	3,000	=	3,000	323	323
MCW-12	1040	4/8/2014◆		=	300	=	300	331	331
MCW-12	1040	4/9/2014		=	300	=	300	340	340
MCW-12	1040	4/10/2014		=	300	=	300	343	343
MCW-12	1040	4/11/2014		=	300	=	300	346	346
MCW-12	1040	4/12/2014		=	300	=	300	349	349
MCW-12	1040	4/13/2014		=	300	=	300	352	352
MCW-12	1040	4/14/2014		=	300	=	300	355	355
MCW-12	1100	4/15/2014◆		=	130	=	170	348	352
MCW-12	1100	4/16/2014		=	130	=	170	342	348
MCW-12	1100	4/17/2014		=	130	=	170	356	365
MCW-12	1100	4/18/2014		=	130	=	170	370	383
MCW-12	1100	4/19/2014		=	130	=	170	385	402
MCW-12	1100	4/20/2014		=	130	=	170	400	422
MCW-12	1100	4/21/2014		=	130	=	170	416	443
MCW-12	1055	4/22/2014◆		=	20	=	40	407	443
MCW-12	1055	4/23/2014		=	20	=	40	397	443
MCW-12	1055	4/24/2014		=	20	=	40	357	407
MCW-12	1055	4/25/2014		=	20	=	40	321	374
MCW-12	1055	4/26/2014		=	20	=	40	288	344
MCW-12	1055	4/27/2014		=	20	=	40	259	316
MCW-12	1055	4/28/2014		=	20	=	40	232	291
MCW-12	1100	4/29/2014◆		=	20	=	20	209	261
MCW-12	1100	4/30/2014		=	20	=	20	187	235
MCW-14b	1050	4/1/2014◆		≥	16,000	≥	16,000	291	291

MCW-14b	1050	4/2/2014		>	16,000	>	16,000	339	339
MCW-14b	1050	4/3/2014		>	16,000	>	16,000	391	391
MCW-14b	1050	4/4/2014		>	16,000	>	16,000	450	450
MCW-14b	1050	4/5/2014		>	16,000	>	16,000	519	519
MCW-14b	1050	4/6/2014		>	16,000	>	16,000	598	598
MCW-14b	1050	4/7/2014		>	16,000	>	16,000	688	688
MCW-14b	1040	4/8/2014◆		=	800	=	1,100	718	725
MCW-14b	1040	4/9/2014		=	800	=	1,100	748	764
MCW-14b	1040	4/10/2014		=	800	=	1,100	748	772
MCW-14b	1040	4/11/2014		=	800	=	1,100	748	781
MCW-14b	1040	4/12/2014		=	800	=	1,100	748	789
MCW-14b	1040	4/13/2014		=	800	=	1,100	748	797
MCW-14b	1040	4/14/2014		=	800	=	1,100	748	806
MCW-14b	1040	4/15/2014◆		=	500	=	500	736	793
MCW-14b	1040	4/16/2014		=	500	=	500	725	781
MCW-14b	1040	4/17/2014		=	500	=	500	771	830
MCW-14b	1040	4/18/2014		=	500	=	500	819	882
MCW-14b	1040	4/19/2014		=	500	=	500	871	938
MCW-14b	1040	4/20/2014		=	500	=	500	926	997
MCW-14b	1040	4/21/2014		=	500	=	500	984	1,060
MCW-14b	1030	4/22/2014◆		=	300	=	300	1,028	1,108
MCW-14b	1030	4/23/2014		=	300	=	300	1,075	1,157
MCW-14b	1030	4/24/2014		=	300	=	300	1,075	1,157
MCW-14b	1030	4/25/2014		=	300	=	300	1,075	1,157
MCW-14b	1030	4/26/2014		=	300	=	300	1,075	1,157
MCW-14b	1030	4/27/2014		=	300	=	300	1,075	1,157
MCW-14b	1030	4/28/2014		=	300	=	300	1,075	1,157
MCW-14b	1030	4/29/2014◆		=	230	=	300	1,065	1,157
MCW-14b	1030	4/30/2014		=	230	=	300	1,056	1,157
MCW-15c	1015	4/1/2014◆		=	80	=	80	59	59
MCW-15c	1015	4/2/2014		=	80	=	80	61	61
MCW-15c	1015	4/3/2014		=	80	=	80	65	65
MCW-15c	1015	4/4/2014		=	80	=	80	70	70
MCW-15c	1015	4/5/2014		=	80	=	80	75	75
MCW-15c	1015	4/6/2014		=	80	=	80	80	80
MCW-15c	1015	4/7/2014		=	80	=	80	86	86
MCW-15c	1015	4/8/2014◆		=	80	=	80	92	92
MCW-15c	1015	4/9/2014		=	80	=	80	99	99
MCW-15c	1015	4/10/2014		=	80	=	80	98	98
MCW-15c	1015	4/11/2014		=	80	=	80	98	98
MCW-15c	1015	4/12/2014		=	80	=	80	98	98
MCW-15c	1015	4/13/2014		=	80	=	80	97	97
MCW-15c	1015	4/14/2014		=	80	=	80	97	97
MCW-15c	1015	4/15/2014◆		=	170	=	170	99	99
MCW-15c	1015	4/16/2014		=	170	=	170	101	101
MCW-15c	1015	4/17/2014		=	170	=	170	96	96
MCW-15c	1015	4/18/2014		=	170	=	170	92	92
MCW-15c	1015	4/19/2014		=	170	=	170	88	88
MCW-15c	1015	4/20/2014		=	170	=	170	84	84
MCW-15c	1015	4/21/2014		=	170	=	170	80	80

MCW-15c	1000	4/22/2014◆		=	230	=	230	77	77
MCW-15c	1000	4/23/2014		=	230	=	230	74	74
MCW-15c	1000	4/24/2014		=	230	=	230	80	80
MCW-15c	1000	4/25/2014		=	230	=	230	87	87
MCW-15c	1000	4/26/2014		=	230	=	230	95	95
MCW-15c	1000	4/27/2014		=	230	=	230	103	103
MCW-15c	1000	4/28/2014		=	230	=	230	111	111
MCW-15c	945	4/29/2014◆		=	500	=	500	124	124
MCW-15c	945	4/30/2014		=	500	=	500	138	138
MCW-17	-	4/1/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	4/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/3/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/6/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/7/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/8/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	4/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/12/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/13/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/14/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/15/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	4/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/19/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/20/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/21/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/22/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	4/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/28/2014	Dry	<	10	<	10	10	10
MCW-17	-	4/29/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	4/30/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/1/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	4/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/3/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/4/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/5/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/6/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/7/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/8/2014◆	Dry	<	10	<	10	10	10
MCW-18	-	4/9/2014	Dry	<	10	<	10	10	10

MCW-18	-	4/10/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/11/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/12/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/13/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/14/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/15/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	4/16/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/17/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/18/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/19/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/20/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/21/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/22/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	4/23/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/24/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/25/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/26/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/27/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/28/2014	Dry	<	10	<	10	10	10
MCW-18	-	4/29/2014♦	Dry	<	10	<	10	10	10
MCW-18	-	4/30/2014	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 geometric mean.

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

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

♦ Date of sampling



June 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  
Herbert L. 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 May 2014. Sites were sampled weekly on Tuesdays (May 6, 13 and 29), except for one instance when sites were sampled on Wednesday (May 28) 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	-	5/6/2014♦		Dry	Dry
MCW-8b	-	5/13/2014♦		Dry	Dry
MCW-8b	-	5/20/2014♦		Dry	Dry
MCW-8b	-	5/28/2014♦		Dry	Dry
MCW-9	-	5/6/2014♦		Dry	Dry
MCW-9	-	5/13/2014♦		Dry	Dry
MCW-9	-	5/20/2014♦		Dry	Dry
MCW-9	-	5/28/2014♦		Dry	Dry
MCW-12	1235	5/6/2014♦	=	500	= 500
MCW-12	1220	5/13/2014♦	=	20	= 20
MCW-12	1120	5/20/2014♦	=	40	= 80
MCW-12	1025	5/28/2014♦	=	140	= 140
MCW-14b	1200	5/6/2014♦	=	170	= 170
MCW-14b	1245	5/13/2014♦	=	700	= 700
MCW-14b	1100	5/20/2014♦	=	2,400	= 2,400
MCW-14b	955	5/28/2014♦	=	800	= 800
MCW-15c	1015	5/6/2014♦	=	3,000	= 3,000
MCW-15c	100	5/13/2014♦	=	230	= 230
MCW-15c	1030	5/20/2014♦	=	170	= 170
MCW-15c	925	5/28/2014♦	=	80	= 80
MCW-17	-	5/6/2014♦		Dry	Dry
MCW-17	-	5/13/2014♦		Dry	Dry
MCW-17	-	5/20/2014♦		Dry	Dry
MCW-17	-	5/28/2014♦		Dry	Dry
MCW-18	-	5/6/2014♦		Dry	Dry
MCW-18	-	5/13/2014♦		Dry	Dry
MCW-18	-	5/20/2014♦		Dry	Dry
MCW-18	-	5/28/2014♦		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

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

MCW-9	-	5/14/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/15/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/16/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/17/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/18/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/19/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/20/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	5/21/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/22/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/23/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/24/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/25/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/26/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/27/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/28/2014♦	Dry	<	10	<	10	10	10
MCW-9	-	5/29/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/30/2014	Dry	<	10	<	10	10	10
MCW-9	-	5/31/2014	Dry	<	10	<	10	10	10
MCW-12	1100	5/1/2014		=	20	=	20	159	199
MCW-12	1100	5/2/2014		=	20	=	20	134	168
MCW-12	1100	5/3/2014		=	20	=	20	114	142
MCW-12	1100	5/4/2014		=	20	=	20	96	120
MCW-12	1100	5/5/2014		=	20	=	20	81	102
MCW-12	1235	5/6/2014♦		=	500	=	500	77	96
MCW-12	1235	5/7/2014		=	500	=	500	72	90
MCW-12	1235	5/8/2014		=	500	=	500	73	92
MCW-12	1235	5/9/2014		=	500	=	500	75	93
MCW-12	1235	5/10/2014		=	500	=	500	76	95
MCW-12	1235	5/11/2014		=	500	=	500	77	97
MCW-12	1235	5/12/2014		=	500	=	500	79	98
MCW-12	1220	5/13/2014♦		=	20	=	20	72	90
MCW-12	1220	5/14/2014		=	20	=	20	66	82
MCW-12	1220	5/15/2014		=	20	=	20	62	76
MCW-12	1220	5/16/2014		=	20	=	20	58	71
MCW-12	1220	5/17/2014		=	20	=	20	54	66
MCW-12	1220	5/18/2014		=	20	=	20	51	62
MCW-12	1220	5/19/2014		=	20	=	20	48	57
MCW-12	1120	5/20/2014♦		=	40	=	80	46	56
MCW-12	1120	5/21/2014		=	40	=	80	44	55
MCW-12	1120	5/22/2014		=	40	=	80	45	56
MCW-12	1120	5/23/2014		=	40	=	80	46	57
MCW-12	1120	5/24/2014		=	40	=	80	48	59
MCW-12	1120	5/25/2014		=	40	=	80	49	60
MCW-12	1120	5/26/2014		=	40	=	80	50	61
MCW-12	1120	5/27/2014		=	40	=	80	51	63
MCW-12	1025	5/28/2014♦		=	140	=	140	54	65
MCW-12	1025	5/29/2014		=	140	=	140	58	70
MCW-12	1025	5/30/2014		=	140	=	140	62	75
MCW-12	1025	5/31/2014		=	140	=	140	66	80

MCW-14b	1030	5/1/2014	=	230	=	300	917	1,014
MCW-14b	1030	5/2/2014	=	230	=	300	796	888
MCW-14b	1030	5/3/2014	=	230	=	300	691	778
MCW-14b	1030	5/4/2014	=	230	=	300	600	681
MCW-14b	1030	5/5/2014	=	230	=	300	521	597
MCW-14b	1200	5/6/2014♦	=	170	=	170	447	513
MCW-14b	1200	5/7/2014	=	170	=	170	385	441
MCW-14b	1200	5/8/2014	=	170	=	170	365	414
MCW-14b	1200	5/9/2014	=	170	=	170	347	389
MCW-14b	1200	5/10/2014	=	170	=	170	329	366
MCW-14b	1200	5/11/2014	=	170	=	170	313	344
MCW-14b	1200	5/12/2014	=	170	=	170	297	323
MCW-14b	1245	5/13/2014♦	=	700	=	700	296	318
MCW-14b	1245	5/14/2014	=	700	=	700	294	313
MCW-14b	1245	5/15/2014	=	700	=	700	298	317
MCW-14b	1245	5/16/2014	=	700	=	700	301	320
MCW-14b	1245	5/17/2014	=	700	=	700	304	324
MCW-14b	1245	5/18/2014	=	700	=	700	308	328
MCW-14b	1245	5/19/2014	=	700	=	700	311	331
MCW-14b	1100	5/20/2014♦	=	2,400	=	2,400	328	349
MCW-14b	1100	5/21/2014	=	2,400	=	2,400	346	368
MCW-14b	1100	5/22/2014	=	2,400	=	2,400	371	394
MCW-14b	1100	5/23/2014	=	2,400	=	2,400	397	423
MCW-14b	1100	5/24/2014	=	2,400	=	2,400	426	453
MCW-14b	1100	5/25/2014	=	2,400	=	2,400	456	485
MCW-14b	1100	5/26/2014	=	2,400	=	2,400	489	520
MCW-14b	1100	5/27/2014	=	2,400	=	2,400	524	558
MCW-14b	955	5/28/2014♦	=	800	=	800	541	576
MCW-14b	955	5/29/2014	=	800	=	800	564	595
MCW-14b	955	5/30/2014	=	800	=	800	588	615
MCW-14b	955	5/31/2014	=	800	=	800	613	635
MCW-15c	945	5/1/2014	=	500	=	500	147	147
MCW-15c	945	5/2/2014	=	500	=	500	156	156
MCW-15c	945	5/3/2014	=	500	=	500	166	166
MCW-15c	945	5/4/2014	=	500	=	500	176	176
MCW-15c	945	5/5/2014	=	500	=	500	187	187
MCW-15c	1015	5/6/2014♦	=	3,000	=	3,000	211	211
MCW-15c	1015	5/7/2014	=	3,000	=	3,000	238	238
MCW-15c	1015	5/8/2014	=	3,000	=	3,000	269	269
MCW-15c	1015	5/9/2014	=	3,000	=	3,000	303	303
MCW-15c	1015	5/10/2014	=	3,000	=	3,000	342	342
MCW-15c	1015	5/11/2014	=	3,000	=	3,000	386	386
MCW-15c	1015	5/12/2014	=	3,000	=	3,000	436	436
MCW-15c	100	5/13/2014♦	=	230	=	230	452	452
MCW-15c	100	5/14/2014	=	230	=	230	468	468
MCW-15c	100	5/15/2014	=	230	=	230	473	473
MCW-15c	100	5/16/2014	=	230	=	230	477	477
MCW-15c	100	5/17/2014	=	230	=	230	482	482
MCW-15c	100	5/18/2014	=	230	=	230	487	487
MCW-15c	100	5/19/2014	=	230	=	230	492	492

MCW-15c	1030	5/20/2014◆		=	170	=	170	492	492
MCW-15c	1030	5/21/2014		=	170	=	170	492	492
MCW-15c	1030	5/22/2014		=	170	=	170	487	487
MCW-15c	1030	5/23/2014		=	170	=	170	482	482
MCW-15c	1030	5/24/2014		=	170	=	170	477	477
MCW-15c	1030	5/25/2014		=	170	=	170	473	473
MCW-15c	1030	5/26/2014		=	170	=	170	468	468
MCW-15c	1030	5/27/2014		=	170	=	170	463	463
MCW-15c	925	5/28/2014◆		=	80	=	80	447	447
MCW-15c	925	5/29/2014		=	80	=	80	421	421
MCW-15c	925	5/30/2014		=	80	=	80	396	396
MCW-15c	925	5/31/2014		=	80	=	80	372	372
MCW-17	-	5/1/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/2/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/3/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/4/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/5/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/6/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	5/7/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/8/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/9/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/10/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/11/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/12/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/13/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	5/14/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/15/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/16/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/17/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/18/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/19/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/20/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	5/21/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/22/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/23/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/24/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/25/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/26/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/27/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/28/2014◆	Dry	<	10	<	10	10	10
MCW-17	-	5/29/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/30/2014	Dry	<	10	<	10	10	10
MCW-17	-	5/31/2014	Dry	<	10	<	10	10	10
MCW-18	-	5/1/2014	Dry	<	10	<	10	10	10
MCW-18	-	5/2/2014	Dry	<	10	<	10	10	10
MCW-18	-	5/3/2014	Dry	<	10	<	10	10	10
MCW-18	-	5/4/2014	Dry	<	10	<	10	10	10
MCW-18	-	5/5/2014	Dry	<	10	<	10	10	10

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

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  
Transportation Department  
David Fleisch, Director  
Engineering Services Department  
Herbert L. Schwind, Director  
Water & Sanitation Department  
R. Reddy Pakala, Director  
Central Services Department  
Janice Turner, Director

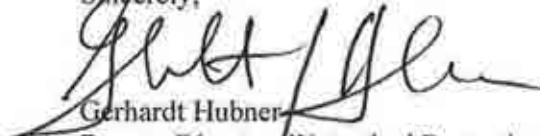
**Subject: MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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 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





**Table 1. Weekly sampling results**

Location	Time	Date	Rain	Single Sample (as sampled)	
				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

**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

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

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

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

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

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

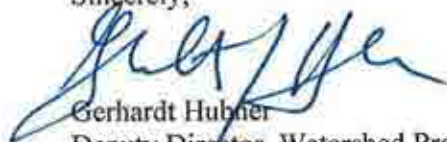
Subject: **MALIBU CREEK AND LAGOON BACTERIA TMDL COMPLIANCE  
MONITORING FOR VENTURA COUNTY AND CITY OF THOUSAND OAKS**

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



**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



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

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

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

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

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