

**APPENDIX C. DRY WEATHER FIB EXCEEDANCE FREQUENCIES,  
CONCENTRATIONS, AND FLUXES BY SITE**

**Table C-1. Dry weather flow-weighted mean concentrations, mass loading and fluxes of fecal indicator bacteria (FIB) at reference stream sites in southern California (specifically, Ventura, Orange and San Diego counties) during summer 2012.**

Constituent	FWMC (MPN/100 ml)				Load (Colonies)				Flux (Colonies/km <sup>2</sup> )			
	2012 Summer				2012 Summer				2012 Summer			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	38.3	244	4,306	NA	9.9E+06	6.3E+07	1.1E+09	NA	2.2E+05	1.4E+06	2.4E+07	NA
CONC	15.6	122	7,395	NA	3.8E+07	1.0E+08	1.4E+09	NA	3.3E+05	8.9E+05	1.2E+07	NA
KC	62.5	168	2,222	NA	5.0E+07	1.4E+08	1.8E+09	NA	1.3E+06	3.4E+06	4.5E+07	NA
LCC	61.3	171	1,745	NA	2.4E+07	6.6E+07	6.7E+08	NA	1.0E+06	2.8E+06	2.9E+07	NA
PVC	59.0	48.4	1,989	NA	3.9E+07	3.2E+07	1.3E+09	NA	9.1E+05	7.5E+05	3.1E+07	NA
SANT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SJC	51.6	233	1,313	NA	1.2E+07	5.4E+07	3.0E+08	NA	1.2E+05	5.5E+05	3.1E+06	NA
USJC	49.3	14.3	1,007	NA	3.4E+06	9.9E+05	7.0E+07	NA	1.8E+05	5.1E+04	3.6E+06	NA
VRBM1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VRMT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

<sup>1</sup>2012 = Fecal Coliforms were not analyzed. Data represents 7 sites sampled during summer months (Apr-July).  
 ACC = Agua Caliente Creek, CONC = Conejos Creek, KC = Kitchen Creek, LCC = Long Canyon Creek, PVC = Pine Valley Creek, SANT = Santiago Canyon Creek, SJC = San Juan Creek, USJC = Upper San Juan Creek, VRBM1 = North Fork Matilija Creek, VRMT3 = Matilija Creek

**Table C-2. Summer and winter dry weather flow-weighted mean concentrations, mass loading and fluxes of fecal indicator bacteria (FIB) at reference stream sites in southern California (specifically, Ventura, Orange and San Diego counties) during 2013.**

Constituent	FWMC (MPN/100 ml)											
	2013 Summer				2013 Winter				2013 Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	646	38.1	175	16.0	5.6	22.0	259	3.0	326	30.1	217	9.5
CONC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KC	7.1	87.4	3,379	4.5	1.3	4.5	253	1.0	4.2	45.9	1,816	2.7
LCC	4.9	28	205	2.2	6.4	32.4	200	4.1	5.7	30.3	203	3.2
PVC	22.1	80.1	768	33.3	1.0	4.0	164	2.3	11.6	42.0	466	17.8
SANT	4.4	43.6	712	1.2	2.5	14.9	302	2.1	3.4	29.2	507	1.7
SJC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
USJC	11.3	42.3	359	67.7	3.0	8.4	381	2.0	7.1	25.4	370	34.9
VRBM1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VRMT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Constituent	Load (Colonies)											
	2013 Summer				2013 Winter				2013 Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	4.7E+08	2.7E+07	1.3E+08	1.2E+07	1.1E+07	4.4E+07	5.1E+08	6.0E+06	2.38E+08	3.56E+07	3.20E+08	8.76E+06
CONC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KC	3.7E+06	4.5E+07	1.8E+09	2.3E+06	7.8E+05	2.6E+06	1.5E+08	5.9E+05	2.22E+06	2.40E+07	9.50E+08	1.45E+06
LCC	2.3E+06	1.3E+07	9.6E+07	1.0E+06	3.8E+06	1.9E+07	1.2E+08	2.4E+06	3.02E+06	1.61E+07	1.07E+08	1.72E+06
PVC	6.5E+06	2.4E+07	2.3E+08	1.2E+07	2.8E+05	1.1E+06	4.5E+07	6.5E+05	3.39E+06	1.23E+07	1.35E+08	6.44E+06
SANT	6.3E+06	6.2E+07	1.0E+09	1.8E+06	5.4E+06	3.2E+07	6.5E+08	4.6E+06	5.84E+06	4.71E+07	8.33E+08	3.20E+06
SJC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
USJC	1.9E+06	7.3E+06	6.2E+07	1.2E+07	9.4E+05	2.6E+06	1.2E+08	6.2E+05	1.44E+06	4.97E+06	9.02E+07	6.16E+06
VRBM1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VRMT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table C-2. Continued.**

Constituent	Flux (Colonies/km <sup>2</sup> )											
	2013 Summer				2013 Winter				2013 Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	1.0E+07	6.0E+05	2.7E+06	2.5E+05	2.4E+05	9.5E+05	1.1E+07	1.3E+05	5.2E+06	7.7E+05	6.9E+06	1.9E+05
CONC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KC	9.2E+04	1.1E+06	4.4E+07	5.8E+04	1.9E+04	6.6E+04	3.7E+06	1.5E+04	5.6E+04	6.0E+05	2.4E+07	3.6E+04
LCC	9.9E+04	5.6E+05	4.1E+06	4.5E+04	1.6E+05	8.2E+05	5.0E+06	1.0E+05	1.3E+05	6.9E+05	4.6E+06	7.4E+04
PVC	1.5E+05	5.5E+05	5.2E+06	2.8E+05	6.4E+03	2.6E+04	1.0E+06	1.5E+04	7.9E+04	2.9E+05	3.1E+06	1.5E+05
SANT	3.7E+05	3.7E+06	6.0E+07	1.0E+05	3.2E+05	1.9E+06	3.8E+07	2.7E+05	1.0E+04	8.4E+04	1.5E+06	5.0E+03
SJC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
USJC	1.0E+05	3.8E+05	3.2E+06	6.1E+05	4.9E+04	1.4E+05	6.1E+06	3.2E+04	7.5E+04	2.6E+05	4.7E+06	3.2E+05
VRBM1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VRMT3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

<sup>2</sup>2013 Data represents 6 sites sampled during winter (Jan-Mar) and summer months (Apr-June).

ACC = Agua Caliente Creek, CONC = Conejos Creek, KC = Kitchen Creek, LCC = Long Canyon Creek, PVC = Pine Valley Creek, SANT = Santiago Canyon Creek, SJC = San Juan Creek, USJC = Upper San Juan Creek, VRBM1 = North Fork Matilija Creek, VRMT3 = Matilija Creek

**Table C-3. Summer and winter dry weather flow-weighted mean concentrations, mass loading and fluxes of fecal indicator bacteria (FIB) at reference stream sites in southern California (specifically, Ventura, Orange and San Diego counties) during 2014.**

Constituent	FWMC (MPN/100 ml)											
	2014 Summer				2014 Winter				2014 Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CONC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LCC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PVC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SANT	0.3	0.9	50.2	0.0	3.4	40.6	520	1.2	1.9	20.8	285	0.6
SJC	108	165	388	16.0	12.8	138	1,222	4.3	60.6	152	805	10.1
USJC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VRBM1	35.8	33.9	604	9.4	6.9	11.9	334	1.0	21.4	22.9	469	5.2
VRMT3	5.5	30.1	489	2.0	9.7	10.6	799	2.4	7.6	20.4	644	2.2
	Load (Colonies)											
Constituent	2014 Summer				2014 Winter				2014 Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CONC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LCC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PVC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SANT	3.4E+05	6.2E+06	4.8E+08	2.7E+05	3.1E+06	3.7E+07	4.7E+08	1.1E+06	1.7E+06	2.2E+07	4.8E+08	6.9E+05
SJC	1.6E+08	2.5E+08	5.9E+08	2.4E+07	4.5E+07	4.9E+08	4.3E+09	1.5E+07	1.0E+08	3.7E+08	2.5E+09	2.0E+07
USJC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VRBM1	5.3E+06	5.1E+06	9.0E+07	1.4E+06	4.1E+06	7.0E+06	2.0E+08	6.0E+05	4.7E+06	6.0E+06	1.4E+08	1.0E+06
VRMT3	1.4E+06	7.8E+06	1.3E+08	5.1E+05	5.2E+06	5.7E+06	4.3E+08	1.3E+06	3.3E+06	6.7E+06	2.8E+08	9.0E+05

**Table C-3. Continued.**

Constituent	Flux (Colonies/km <sup>2</sup> )											
	2014 Summer				2014 Winter				2014 Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CONC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
KC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LCC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PVC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SANT	2.0E+04	3.7E+05	2.8E+07	1.6E+04	1.8E+05	2.2E+06	2.8E+07	6.5E+04	1.0E+05	1.3E+06	2.8E+07	4.0E+04
SJC	1.7E+06	2.6E+06	6.1E+06	2.5E+05	4.7E+05	5.1E+06	4.5E+07	1.6E+05	1.1E+06	3.8E+06	2.5E+07	2.0E+05
USJC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VRBM1	1.3E+05	1.3E+05	2.3E+06	3.5E+04	1.0E+05	1.7E+05	4.9E+06	1.5E+04	1.2E+05	1.5E+05	3.6E+06	2.5E+04
VRMT3	1.2E+04	6.7E+04	1.1E+06	4.4E+03	4.5E+04	4.9E+04	3.7E+06	1.1E+04	2.9E+04	5.8E+04	2.4E+06	7.8E+03

<sup>3</sup>2014 Data represents 4 Sites sampled during winter (Feb-Mar) and summer months (Apr-Aug).

ACC = Agua Caliente Creek, CONC = Conejos Creek, KC = Kitchen Creek, LCC = Long Canyon Creek, PVC = Pine Valley Creek, SANT = Santiago Canyon Creek, SJC = San Juan Creek, USJC = Upper San Juan Creek, VRBM1 = North Fork Matilija Creek, VRMT3 = Matilija Creek

**Table C-4. Mean summer, winter and annual dry weather flow-weighted mean concentrations, mass loading and fluxes of fecal indicator bacteria (FIB) at reference stream sites in southern California (specifically, Ventura, Orange and San Diego counties) during the study.**

Constituent	FWMC (MPN/100 ml)											
	Mean Summer				Mean Winter				Mean Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	342	141	2,241	16.0	5.6	22.0	259	3.0	230	101	1,580	9.5
CONC	61.6	167	2,313	NA	NA	NA	NA	NA	15.6	122	7,395	NA
KC	34.8	128	2,801	4.5	1.3	4.5	253	1	23.6	86.6	1,952	1.8
LCC	33.1	99.4	975	2.2	6.4	32.4	200	4.1	24.2	77.1	717	2.1
PVC	40.6	64.2	1,378	33.3	1.0	4.0	164	2.3	27.4	44.1	974	11.9
SANT	2.3	22.3	381	0.6	3.0	27.8	411	1.7	2.7	25.0	396	1.2
SJC	80.0	199	851	16.0	12.8	138	1,222	4.3	57.6	179	974	10.1
USJC	30.3	28.3	683	67.7	3.0	8.4	381	2.0	21.2	21.7	582	23.2
VRBM1	35.8	33.9	604	9.4	6.9	11.9	334	1.0	21.4	22.9	469	5.2
VRMT3	5.5	30.1	489	2.0	9.7	10.6	799	2.4	7.6	20.4	644	2.2
	Load (Colonies)											
Constituent	Mean Summer				Mean Winter				Mean Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	2.4E+08	4.5E+07	6.2E+08	1.2E+07	1.1E+07	4.4E+07	5.1E+08	6.0E+06	1.6E+08	4.5E+07	5.9E+08	8.8E+06
CONC	3.8E+07	1.0E+08	1.4E+09	NA	NA	NA	NA	NA	6.7E+05	5.3E+06	3.2E+08	NA
KC	2.7E+07	9.0E+07	1.8E+09	2.3E+06	7.8E+05	2.6E+06	1.5E+08	5.9E+05	1.8E+07	6.1E+07	1.2E+09	9.7E+05
LCC	1.3E+07	3.9E+07	3.8E+08	1.0E+06	3.8E+06	1.9E+07	1.2E+08	2.4E+06	9.9E+06	3.3E+07	2.9E+08	1.7E+06
PVC	2.3E+07	2.8E+07	7.8E+08	1.2E+07	2.8E+05	1.1E+06	4.5E+07	6.5E+05	1.5E+07	1.9E+07	5.3E+08	6.4E+06
SANT	3.3E+06	3.4E+07	7.5E+08	1.0E+06	4.3E+06	3.4E+07	5.6E+08	2.9E+06	3.8E+06	3.4E+07	6.6E+08	1.9E+06
SJC	8.8E+07	1.5E+08	4.4E+08	2.4E+07	4.5E+07	4.9E+08	4.3E+09	1.5E+07	7.4E+07	2.6E+08	1.7E+09	2.0E+07
USJC	2.7E+06	4.2E+06	6.6E+07	1.2E+07	9.4E+05	2.6E+06	1.2E+08	6.2E+05	2.1E+06	3.6E+06	8.3E+07	6.2E+06
VRBM1	5.3E+06	5.1E+06	9.0E+07	1.4E+06	4.1E+06	7.0E+06	2.0E+08	6.0E+05	4.7E+06	6.0E+06	1.4E+08	1.0E+06
VRMT3	1.4E+06	7.8E+06	1.3E+08	5.1E+05	5.2E+06	5.7E+06	4.3E+08	1.3E+06	3.3E+06	6.7E+06	2.8E+08	9.0E+05

**Table C-4. Continued**

Constituent	Flux (Colonies/km <sup>2</sup> )											
	Mean Summer				Mean Winter				Mean Annual			
	EC	ENT	TC	FC	EC	ENT	TC	FC	EC	ENT	TC	FC
ACC	5.2E+06	9.8E+05	1.3E+07	2.5E+05	2.4E+05	9.5E+05	1.1E+07	1.3E+05	3.5E+06	9.7E+05	1.3E+07	1.3E+05
CONC	3.3E+05	8.9E+05	1.2E+07	NA	NA	NA	NA	NA	5.8E+03	4.5E+04	2.8E+06	NA
KC	6.8E+05	2.3E+06	4.4E+07	5.8E+04	1.9E+04	6.6E+04	3.7E+06	1.5E+04	4.6E+05	1.5E+06	3.1E+07	2.4E+04
LCC	5.5E+05	1.7E+06	1.6E+07	4.5E+04	1.6E+05	8.2E+05	5.0E+06	1.0E+05	4.2E+05	1.4E+06	1.3E+07	4.9E+04
PVC	5.3E+05	6.5E+05	1.8E+07	2.8E+05	6.4E+03	2.6E+04	1.0E+06	1.5E+04	3.6E+05	4.4E+05	1.2E+07	1.0E+05
SANT	1.9E+05	2.0E+06	4.4E+07	6.0E+04	2.5E+05	2.0E+06	3.3E+07	1.7E+05	2.2E+05	2.0E+06	3.9E+07	1.1E+05
SJC	9.1E+05	1.6E+06	4.6E+06	2.5E+05	4.7E+05	5.1E+06	4.5E+07	1.6E+05	7.6E+05	2.7E+06	1.8E+07	2.0E+05
USJC	1.4E+05	2.2E+05	3.4E+06	6.1E+05	4.9E+04	1.4E+05	6.1E+06	3.2E+04	1.1E+05	1.9E+05	4.3E+06	2.1E+05
VRBM1	1.3E+05	1.3E+05	2.3E+06	3.5E+04	1.0E+05	1.7E+05	4.9E+06	1.5E+04	1.2E+05	1.5E+05	3.6E+06	2.5E+04
VRMT3	1.2E+04	6.7E+04	1.1E+06	4.4E+03	4.5E+04	4.9E+04	3.7E+06	1.1E+04	5.5E-03	1.3E-02	4.6E-01	1.5E-03

ACC = Agua Caliente Creek, CONC = Conejos Creek, KC = Kitchen Creek, LCC = Long Canyon Creek, PVC = Pine Valley Creek, SANT = Santiago Canyon Creek, SJC = San Juan Creek, USJC = Upper San Juan Creek, VRBM1 = North Fork Matilija Creek, VRMT3 = Matilija Creek



**Table C-5. Seasonal and annual mean dry weather flow-weighted mean concentrations, mass loading and fluxes of fecal indicator bacteria (FIB) at reference stream sites in southern California (specifically, Ventura, Orange and San Diego counties) during the study.**

Constituent	FWMC (MPN/100 ml)											
	2012			2013			2014			Mean		
	Summer	Winter	Annual	Summer	Winter	Annual	Summer	Winter	Annual	Summer	Winter	Annual
E. coli	48.2	NA	48.2	115.9	3.3	59.6	37.5	8.2	22.9	69.6	5.3	45.8
Enterococcus	143	NA	143	53.3	14.4	33.8	57.6	50.4	54.0	91.1	28.8	68.0
Total Coliforms	2,854	NA	2,854	933	260	596	383	719	551	1,595	443	1,168
Fecal Coliforms	NA	NA	NA	20.8	2.4	11.6	6.8	2.2	4.5	10.2	2.4	6.8
Constituent	Loads (Colonies)											
	2012			2013			2014			Mean		
	Summer	Winter	Annual	Summer	Winter	Annual	Summer	Winter	Annual	Summer	Winter	Annual
E. coli	1.99E+07	NA	1.99E+07	8.10E+07	3.73E+06	4.23E+07	4.27E+07	1.45E+07	2.86E+07	4.68E+07	8.02E+06	3.24E+07
Enterococcus	5.09E+07	NA	5.09E+07	2.98E+07	1.69E+07	2.33E+07	6.73E+07	1.35E+08	1.01E+08	4.73E+07	6.41E+07	5.35E+07
Total Coliforms	7.99E+08	NA	7.99E+08	5.46E+08	2.66E+08	4.06E+08	3.21E+08	1.36E+09	8.39E+08	5.98E+09	7.02E+08	6.36E+08
Fecal Coliforms	NA	NA	NA	6.77E+06	2.48E+06	4.62E+06	6.59E+06	4.54E+06	5.57E+06	1.10E+05	8.15E+04	9.87E+04

**Table C-5. Continued.**

Constituent	Fluxes (Colonies/km <sup>2</sup> )											
	2012			2013			2014			Mean		
	Summer	Winter	Annual	Summer	Winter	Annual	Summer	Winter	Annual	Summer	Winter	Annual
E. coli	5.29E+05	NA	5.29E+05	3.66E+05	1.33E+05	2.49E+05	4.64E+05	2.00E+05	3.32E+05	9.68E+05	1.60E+05	6.69E+05
Enterococcus	1.28E+06	NA	1.28E+06	1.29E+06	6.48E+05	9.69E+05	7.85E+05	1.86E+06	1.32E+06	1.12E+06	1.13E+06	1.12E+06
Total Coliforms	1.97E+07	NA	1.97E+07	1.98E+07	1.09E+07	1.54E+07	9.44E+06	2.03E+07	1.49E+07	1.73E+07	1.46E+07	1.63E+07
Fecal Coliforms	NA	NA	NA	2.25E+05	9.45E+04	1.60E+05	7.63E+04	6.19E+04	6.91E+04	1.10E+05	8.15E+04	9.87E+04

<sup>1</sup>2012 = Fecal Coliforms were not analyzed. Data represents 7 sites sampled during summer months (Apr-July).

<sup>2</sup>2013 Data represents 6 sites sampled during winter (Jan-Mar) and summer months (Apr-June).

<sup>3</sup>2014 Data represents 4 Sites sampled during winter (Feb-Mar) and summer months (Apr-Aug).

**Table C-6. Summary statistics of dry weather *E. coli* concentrations and exceedances by site during 2012-2014.**

<i>E. coli</i> Spring/Summer Dry Weather	Site									
	ACC <sup>1</sup>	CONC <sup>2</sup>	KC <sup>3</sup>	LCC <sup>4</sup>	PVC <sup>5</sup>	SANT <sup>6</sup>	SJC <sup>7</sup>	USJC <sup>8</sup>	VRBM1 <sup>9</sup>	VRMT3 <sup>10</sup>
Total number of samples	12	2	24	30	26	18	30	19	25	26
Number of observed exceedances	2	0	0	1	3	0	2	0	1	0
Number of observed nonexceedances	10	2	24	29	23	18	28	19	24	26
Percent Exceedance	17%	0.00%	0.00%	3.30%	12%	0.00%	6.70%	0.00%	4.00%	0.00%
Number of seasons during which samples were collected	2	1	3	4	4	2	4	4	3	3
Number of years during which samples were collected	2	1	2	2	2	2	2	2	1	1
Highest observation (MPN/100ml)*	1986.3	27.4	113.75	686.7	370.5	10	607.7	112.3	256.1	57.3
Lowest observation (MPN/100ml)*	<1	8.6	<1	<1	<1	<1	<1	<1	<1	<1
Median observation (MPN/100ml)*	16.1	21.3	10	12.2	10	<1	21.6	10	8.6	9.8
Mean observation (MPN/100ml)*	185.9	18.6	27.6	27.2	61.3	1.7	82.8	22.2	27.3	12.7
Geomean observation (MPN/100ml)*	20.8	NA	15.4	11.2	27.8	1.3	31.2	13.8	9.8	9

\*Most probable number/100 ml

Exceedences represent values above 126 counts/100 ml

<sup>1</sup>ACC = Agua Caliente Creek, <sup>2</sup>CONC = Conejos Creek, <sup>3</sup>KC = Kitchen Creek, <sup>4</sup>LCC = Long Canyon Creek, <sup>5</sup>PVC = Pine Valley Creek, <sup>6</sup>SANT = Santiago Canyon Creek, <sup>7</sup>SJC = San Juan Creek, <sup>8</sup>USJC = Upper San Juan Creek, <sup>9</sup>VRBM1 = North Fork Matilija Creek, <sup>10</sup>VRMT3 = Matilija Creek

**Table C-7. Summary statistics of dry weather enterococci concentrations and exceedances by site during 2012-2014.**

Enterococci Spring/Summer Dry Weather Parameter	Site									
	ACC <sup>1</sup>	CONC <sup>2</sup>	KC <sup>3</sup>	LCC <sup>4</sup>	PVC <sup>5</sup>	SANT <sup>6</sup>	SJC <sup>7</sup>	USJC <sup>8</sup>	VRBM1 <sup>9</sup>	VRMT3 <sup>10</sup>
Total number of samples	12	2	24	31	26	18	30	19	25	26
Number of observed exceedances	4	2	13	18	8	6	17	5	4	7
Number of observed nonexceedances	8	0	11	13	18	12	13	14	21	19
Percent Exceedance	33%	50%	54%	58%	31%	33%	57%	26%	16%	27%
Number of seasons during which samples were collected	2	1	3	4	4	2	4	4	3	3
Number of years during which samples were collected	2	1	2	2	2	2	2	2	1	1
Highest observation (MPN/100ml)*	635.3	97.5	307.6	537	424.2	207.8	648.8	236.5	161.5	215.5
Lowest observation (MPN/100ml)*	18.5	16.6	10	7.4	<1	<1	17.3	<1	<1	2
Median observation (MPN/100ml)*	56.5	63	64.5	108.1	25.6	41	74.3	17.8	27.9	34
Mean observation (MPN/100ml)*	185.9	51.3	83.4	130.8	75.2	67.1	134	52.7	41.7	48.1
Geomean observation (MPN/100ml)*	29.3	NA	69.3	113.8	41.9	54.3	113	28.8	37.3	29.1

\*Most probable number/100 ml

Exceedences represent values above 33 counts/100 ml

<sup>1</sup>ACC = Agua Caliente Creek, <sup>2</sup>CONC = Conejos Creek, <sup>3</sup>KC = Kitchen Creek, <sup>4</sup>LCC = Long Canyon Creek, <sup>5</sup>PVC = Pine Valley Creek, <sup>6</sup>SANT = Santiago Canyon Creek, <sup>7</sup>SJC = San Juan Creek, <sup>8</sup>USJC = Upper San Juan Creek, <sup>9</sup>VRBM1 = North Fork Matilija Creek, <sup>10</sup>VRMT3 = Matilija Creek

**Table C-8. Summary statistics of dry weather total coliforms concentrations and exceedances by site during 2012-2014.**

Total Coliforms Spring/Summer Dry Weather Parameter	Site									
	ACC <sup>1</sup>	CONC <sup>2</sup>	KC <sup>3</sup>	LCC <sup>4</sup>	PVC <sup>5</sup>	SANT <sup>6</sup>	SJC <sup>7</sup>	USJC <sup>8</sup>	VRBM1 <sup>9</sup>	VRMT3 <sup>10</sup>
Total number of samples	12	2	24	31	26	18	30	19	25	26
Number of observed exceedances	2	0	1	0	0	0	1	0	0	0
Number of observed nonexceedances	10	2	23	31	26	18	29	19	25	26
Percent Exceedance	16.70%	0%	4.20%	0%	0%	0%	3.30%	0%	0%	0%
Number of seasons during which samples were collected	3	1	3	4	4	2	4	3	2	2
Number of years during which samples were collected	2	1	2	2	2	2	2	2	1	1
Highest observation (MPN/100ml)*	22,865	7,394.70	11,199	4,346.70	4,639	8,686	10,462	1,691.40	1986	2039
Lowest observation (MPN/100ml)*	34.1	1,020.40	139.6	52	79.8	70.3	99	130	74.9	118.7
Median observation (MPN/100ml)*	1,478	6,488	2,173	1,120	1,723	1,378	894	532	488	461
Mean observation (MPN/100ml)*	4,774	4,502	2,419	1,344	1,720	2,179	1,530	674	650	703
Geomean observation (MPN/100ml)*	308.4	NA	2,007.20	1,029.60	1,133.90	1,610.70	970.1	630.1	532.7	613.8

\*Most probable number/100 ml

Exceedences represent values above 1000 counts/100 ml

<sup>1</sup>ACC = Agua Caliente Creek, <sup>2</sup>CONC = Conejos Creek, <sup>3</sup>KC = Kitchen Creek, <sup>4</sup>LCC = Long Canyon Creek, <sup>5</sup>PVC = Pine Valley Creek, <sup>6</sup>SANT = Santiago Canyon Creek, <sup>7</sup>SJC = San Juan Creek, <sup>8</sup>USJC = Upper San Juan Creek, <sup>9</sup>VRBM1 = North Fork Matilija Creek, <sup>10</sup>VRMT3 = Matilija Creek

**Table C-9. Summary statistics of dry weather fecal coliforms concentrations and exceedances by site during 2012-2014.**

Fecal Coliforms Spring/Summer Dry Weather Parameter	Site									
	ACC <sup>1</sup>	CONC <sup>2</sup>	KC <sup>3</sup>	LCC <sup>4</sup>	PVC <sup>5</sup>	SANT <sup>6</sup>	SJC <sup>7</sup>	USJC <sup>8</sup>	VRBM1 <sup>9</sup>	VRMT3 <sup>10</sup>
Total number of samples	8	NA	9	12	12	17	12	9	25	26
Number of observed exceedances	0	NA	0	0	0	0	0	0	0	0
Number of observed nonexceedances	8	NA	9	12	12	17	12	9	25	26
Percent Exceedance	0%	NA	0%	0%	0%	0%	0%	0%	0%	0%
Number of seasons during which samples were collected	2	0	2	2	2	4	2	2	2	2
Number of years during which samples were collected	1	0	1	1	1	2	1	1	1	1
Highest observation (MPN/100ml)*	157	NA	50.5	9	154	28.5	57.5	247	79.5	16
Lowest observation (MPN/100ml)*	1	NA	1	1	1	1	1	1	1	1
Median observation (MPN/100ml)*	24.5	NA	2	1.8	5	1	7.5	9	1	1.5
Mean observation (MPN/100ml)*	45.7	NA	8.3	2.3	41.2	2.6	15.3	45.6	5.1	3.2
Geomean observation (MPN/100ml)*	18.9	NA	3.4	1.6	27.7	1.6	9	15.2	2.1	2.4

\*Most probable number/100 ml

Exceedences represent values above 200 counts/100 ml

<sup>1</sup>ACC = Agua Caliente Creek, <sup>2</sup>CONC = Conejos Creek, <sup>3</sup>KC = Kitchen Creek, <sup>4</sup>LCC = Long Canyon Creek, <sup>5</sup>PVC = Pine Valley Creek, <sup>6</sup>SANT = Santiago Canyon Creek, <sup>7</sup>SJC = San Juan Creek, <sup>8</sup>USJC = Upper San Juan Creek, <sup>9</sup>VRBM1 = North Fork Matilija Creek, <sup>10</sup>VRMT3 = Matilija Creek

**Table C-10. Dry weather stream discharge summary at the reference stream sites during the study period.**

Constituent	Total Stream Discharge (gal/day)		
	Summer	Winter	Annual
ACC	2.7E+06	9.9E+06	8.9E+07
CONC	8.6E+04	NA	7.6E+07
KC	6.9E+06	2.9E+06	7.6E+07
LCC	5.8E+06	2.9E+06	6.6E+07
PVC	6.1E+06	1.4E+06	5.8E+07
SANT	6.6E+06	1.3E+07	5.0E+07
SJC	1.1E+07	7.1E+06	3.1E+07
USJC	1.0E+06	1.6E+06	1.3E+07
VRBM1	1.6E+06	2.9E+06	1.0E+07
VRMT3	2.9E+06	2.7E+06	5.5E+06

ACC = Agua Caliente Creek, CONC =Conejos Creek, KC = Kitchen Creek, LCC = Long Canyon Creek, PVC = Pine Valley Creek, SANT = Santiago Canyon Creek, SJC = San Juan Creek, USJC = Upper San Juan Creek, VRBM1 = North Fork Matilija Creek, VRMT3 = Matilija Creek