

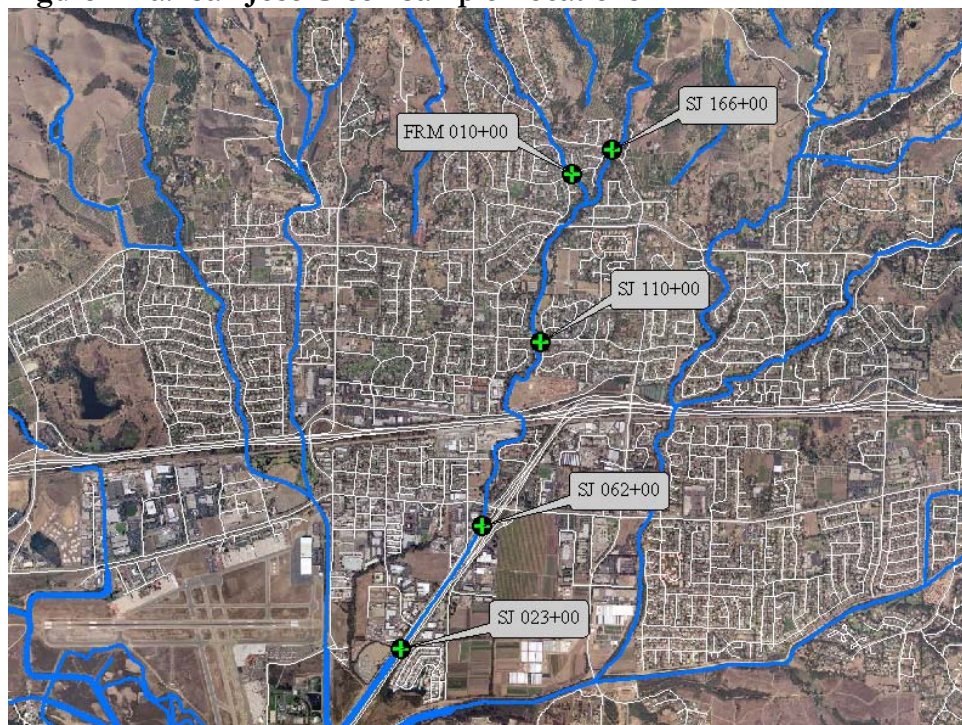
## **APPENDIX A**

### **Sampling Sites, Constituents, PQLs, Standards, and Basin Plan Objectives**

**Table A-1. Major Watersheds and Associated Tributaries Sampled During Storm Events**

Watershed	Creek name	Station number	Location	Full Suite	Bacteria	Comments
San Jose	San Jose	SJ 023+00	Bottom of Channel	X	X	Time series
	San Jose	SJ 062+00	Downstream Hollister Rd.	X	X	Time series
	San Jose	SJ 110+00	Berkeley Road	X	X	Time series
	San Jose	SJ 166+00	N. Patterson	X	X	Time series
	Fremont	FRE 010+00	Queen Anne Road	X	X	Time series
Santa Ynez	Alamo Pintado	SYZ1	Santa Barbara Bank and Trust parking lot	X	X	
	Zanja de Cota	SYZ2	Santa Ynez Park	X	X	
	Unnamed	VV	Downstream Community Services District	X	X	
	Purisima	MH	Downstream Community Services District	X	X	
Orcutt	Orcutt	OR1	Black Rd.	X	X	
	Orcutt	OR5	Bradley Rd	X	X	

**Figure A-1a. San Jose Creek Sample Locations**



**Figure A-1b. Santa Ynez Sample Locations**



**Figure A-1c. Mission Hills and Vandenberg Village Sample Locations**

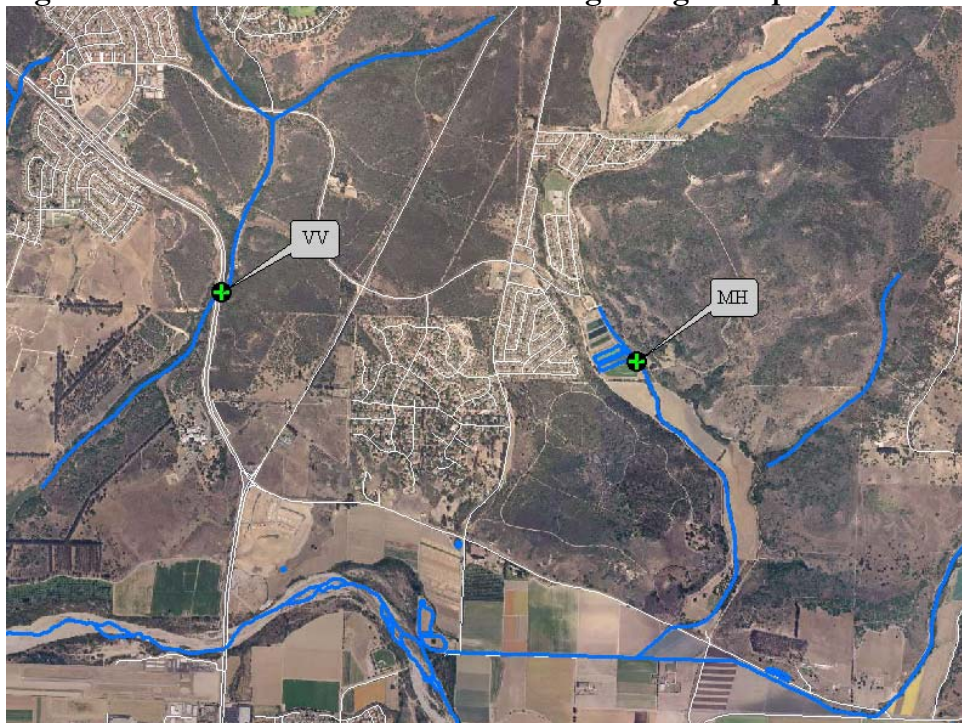


Figure A-1d. Orcutt Sample Locations



**Table A-2. EPA Method and Cost for Constituents**

	Analyte	Method	Cost/Sample
Bacteria	Total Coliform/ <i>E. Coli</i>	Colilert	\$75 <sup>1</sup>
	Enterococcus	Enterolert	\$60 <sup>2</sup>
Pesticides	Glyphosate	EPA 547	\$130
	Organophosphorus Pesticides	EPA 8141	\$185
Metals	Metals	EPA 200.8/7000	\$130
Nutrients	TKN	EPA 351.2	\$65
	Total Phosphorus	EPA 365.1	\$40
	Ammonia-N	EPA 350.3	\$30
	PO4-P	EPA 300.0	\$30
	Nitrate/Nitrite as N	EPA 300.0	\$40
Other Constituents	TRPH	EPA 418.1	\$60
	Oil and Grease	EPA 413.2	\$60
	pH	YSI 85	-
	Dissolved Oxygen	YSI 85	-
	Conductivity/Specific Conductance	YSI 85	-
	Salinity	YSI 85	-
	Temperature	YSI 85	-

<sup>1</sup>For 1:10, 1:100, and 1:1000 dilution

<sup>2</sup>For 1:10 and 1:100 dilution

**Table A-3. Practical Quantitation Limits (PQL), objectives and standards for each constituent which was detected (mg/L)**

Constituent	PQL	EPA Aquatic Toxicity Standards				Regional Water Quality Control Board Basin Plan Objectives				State Ocean Water Quality Standards
		EPA CCC	EPA CMC	EPA Goldbook Acute	EPA Goldbook Chronic	MUN	(COLD or WARM) SOFT	(COLD or WARM) HARD	AGR	
Physical Constituents	pH	-0.9				6.5-8.3	7.0-8.5	7.0-8.5	6.5-8.3	
	Dissolved Oxygen	0.01				<5	<7	<5	<2	
	Salinity	0.1								
	Specific Conductance (uhmos/cm)	0.1								
	Temperature	-5					+5	+5		
	Total Recoverable Petroleum Hydrocarbons	1								
	Oil and Grease	1								
Pesticides	Glyphosate	0.009				0.7				
	Diazinon	0.00004		0.00000009						
	Chlorpyrifos	0.00004	0.000041	0.000083						
	Malathion	0.0001	0.0001		0.0001					
Nutrients	Ammonical Nitrogen	0.1								
	Nitrate (NO <sub>3</sub> -N)	0.5				45				
	Total Phosphorus	0.02								
	Total Kjeldahl Nitrogen	0.5								
Metals	Chromium	0.01	0.074	0.57	1.7	0.21	0.05	0.05	0.1	
	Copper	0.01	0.009	0.013	0.018	0.12		0.01	0.03	0.2
	Zinc	0.01	0.12	0.12	0.32	0.047		0.004	0.2	2
Bacte	Total Coliform (MPN)	10								10,000
	<i>E. coli</i> (MPN)	10								400
	Enterococcus (MPN)	10								104

The RWQCB has assigned a designated use for most of the creek waters on the south coast. Table A-5 lists the creeks in which sampling is conducted and presents their 'designated uses', where MUN = Municipal and Domestic Supply, AGR = Agricultural Supply, COLD = Cold Fresh Water Habitat, WARM = SOFT = hardness < 100 mg/l CaCO<sub>3</sub>, HARD = hardness > 100 mg/l CaCO<sub>3</sub>, Warm Fresh Water Habitat, and SPWN = Spawning, Reproduction, and/or Early Development. Each designated use is assigned certain water quality objectives by the RWQCB. Note that several creeks that are sampled are not listed in the Basin Plan.

**Table A-4. RWQCB Basin Plan Designated Uses**

<b>Creek</b>	<b>MUN</b>	<b>AGR</b>	<b>COLD</b>	<b>WARM</b>	<b>SPWN</b>
San Jose	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Santa Ynez	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Alamo Pintado	<b>X</b>	<b>X</b>		<b>X</b>	
Orcutt	<b>X</b>	<b>X</b>	<b>X</b>		

Where

MUN = Municipal and Domestic Supply

AGR = Agricultural Supply

COLD = Cold Fresh Water Habitat

WARM = Warm Fresh Water Habitat

SPWN = Spawning, Reproduction, and/or Early Development