

Appendix G

Data Sources

Data Sources

Table G-1. Monitoring Data Sources

Index	Data Source	Location	Station ID	Years Compiled	Purpose
Stream Flow					
1	Orange County Public Facilities and Resources Department ¹	Aliso Creek	J01P08, J01P06, J07P02, J07P01, J01P0, J01P05, J01P03, J1P04, J06, J05, J01P30, J01P28, J01P27, J01P33, J01P25, J0126, J01P24, J01P23, J01P22, J03P02, J01P21, J02P05, J02P08, J03P13, J03P05, J03P01, J04	4/2001-12/2002	Instantaneous flow measurements used for development of multi-variable regression equations for prediction of dry-weather streamflows
			J01P22, J01P23, J01P27, J01P28, J06, J01P05, J01P01, J01BN8, J04, J03P13, J03P01	4/2001-12/2002	Instantaneous flow measurements used for calibration of dry-weather modeled streamflows
2	City of San Diego ¹	Rose Creek and Tecolote Creek (Mission Bay Drainage)	MBW07	11/2001-4/2003	Instantaneous flow measurements used for development of multi-variable regression equations for prediction of dry-weather streamflows
			MBW09, MBW13, MBW16	7/2001-4/2003	
			MBW11	12/2001-4/2003	
			MBW13, MBW15, MBW17	7/2001-4/2003	Instantaneous flow measurements used for calibration of dry-weather modeled streamflows
			MBW20	11/2001-4/2003	
			MBW11	12/2001-4/2003	
			MBW24	12/2001-3/2003	Instantaneous flow measurements used for validation of dry-weather modeled streamflows
			MBW06, MBW10, MBW09	7/2001-4/2003	
			MBW07, MBW08	11/2001-4/2003	
3	United States Geological Survey (USGS) ²	San Juan Creek	11047300	10/1970-1/2002	Average daily flows on dry days used for calibration of dry-weather modeled streamflows
		San Diego River	11022480	1/1991-12/2001	Average daily flows on wet days used for calibration and validation of wet-weather modeled streamflows
		San Diego River	11023000	1/1991-12/2001	
		Miramar	11023340	1/1991-12/2001	
		San Dieguito	11025500	1/1991-12/2001	
		San Dieguito	11028500	1/1991-12/2001	
		San Luis Rev	11042000	9/1993-5/2002	
		Santa Margarita	11042400	1/1991-12/2001	
		Santa Margarita	11044300	1/1991-12/2001	
		Santa Margarita	11046000	1/1991-12/1998	
		San Juan Creek	11046530	1/1991-12/2001	
		San Juan Creek	11047300	10/1995-4/2002	

Index	Data Source	Location	Station ID	Years Compiled	Purpose
		San Diego River	11022350	1/1991-9/1993	
		San Luis Rey	11039800	1/1991-12/1992	
Water Quality					
4	Orange County Pubic Facilities and Resources Department ¹	Aliso Creek	J01P08, J01P06, J07P02, J07P01, J01P01, J01P05, J01P03, J1P04, J06, J05, J01P30, J01P28, J01P27, J01P33, J01P25, J0126, J01P24, J01P23, J01P22, J03P02, J01P21, J02P05, J02P08, J03P13, J03P05, J03P01, J04	4/2001-12/2002	Development of multi-variable regression equations for prediction of dry-weather bacteria levels
			J01P22, J01P23, J01P27, J01P28, J06, J01P05, J01P01, J01BN8, J04, J03P13, J03P01	4/2001-12/2002	Calibration of dry-weather model for bacteria levels
5	City of San Diego ¹	Rose Creek and Tecolote Creek (Mission Bay Drainage)	MBW07, MBW08	11/2001-4/2003	Development of multi-variable regression equations for prediction of dry-weather bacteria levels
			MBW06, MBW09, MBW10, MBW13, MBW15, MBW16	7/2001-4/2003	
			MBW24	12/2001-3/2003	
			MBW13, MBW15, MBW17	7/2001-4/2003	Calibration of dry-weather model for bacteria levels
			MBW20	11/2001-4/2003	
			MBW11	12/2001-4/2003	
			MBW24	12/2001-3/2003	Validation of dry-weather model for bacteria levels
			MBW06, MBW10, MBW09	7/2001-4/2003	
MBW07, MBW08	11/2001-4/2003				
6	Orange County Public Health Laboratory (SDRWQCB, 2002)	San Juan Creek	SJ13	4/2001-7/2001	Development of multi-variable regression equations for prediction of dry-weather bacteria levels
			SJ14, SJ15, SJ16, SJ19, SJ20, SJ21, SJ29, SJ32	5/2001-7/2001	
			SJ01, SJ04, SJ05, SJ24	4/2001-7/2001	Validation of dry-weather model for bacteria levels
			SJ15, SJ17, SJ18, SJ29	5/2001-7/2001	
7	Southwest Division Naval Facilities Engineering Command	Santa Margarita	501, 504, 508, 502, 503, 505, 506, 507	12/1997-2/1999	Validation of wet weather water quality predictions

Index	Data Source	Location	Station ID	Years Compiled	Purpose
8	Rancho California Water District	Santa Margarita River	Station #1 (Upstream from Santa Rosa Plant), Station #2 (Willow Glen), Station #3 (Deluz Crossing), Station #4 (Estuary)	12/1997-2/2001	
9	Camp Pendleton	Santa Margarita River	Plant #3 Upstream; Plant #13 Upstream	1/1995-3/2002	
10	The Orange County Public Facilities and Resources Department (OCPFRD)	Aliso creek	D/S J01/J02, J01 @ TP, U/S J01/J02, J02TBN1, D/S J01P21, U/S J01P21, J01P22, D/S J01/J03, U/S J01/J03, D/S J01P23, D/S J01P24, D/S J01P25, D/S J01P26, D/S J01P27, D/S J01P33, D/S J01TBN4, J01P28, U/S J01P23, U/S J01P24, U/S J01P25, U/S J01P26, U/S J01P27, U/S J01P33, U/S J01TBN4, D/S J01P30, U/S J01P30, D/S J06, U/S J06, D/S J01P04, D/S J01P05, D/S J01P32, D/S J01TBN2, D/S J01TBN3, J01P01, J07P01J07P02, U/S J01P04, U/S J01P05, U/S J01P32, U/S J01TBN2, U/S J01TBN3, D/S J01P08, D/S J01TBN8, J01P06, J02P08, U/S J01P08, U/S J01TBN8, D/S J05, U/S J05, J01P03, J04, U/S J04, J02P05, J03P02, J03P05, J03P13, J03P01, J03TBN1, J03TBN2	4/2001-11/2003	
11	Orange County Public Health Laboratory (SDRWQCB, 2002)	San Juan Creek	SJ02, SJ09, SJ10, SJ12, SJ13, SJ25, SJ30	5/2001-12/2001	

Index	Data Source	Location	Station ID	Years Compiled	Purpose
12	City of San Diego (2000)	Rose Creek and Tecolote Creek (Mission Bay Drainage)	MBW06, MBW07, MBW08, MBW09, MBW10, MBW11, MBW12, MBW13, MBW14, MBW15, MBW16, MBW17, MBW18, MBW19, MBW20, MBW21, MBW23, MBW24	11/2001-2/2002	
13	Padre Dam Municipal Water District	San Diego River	1, 2, 3, 4, 5, 6	3/1998-4/2002	
14	City of San Diego-Water Department, Cleveland National Forest Descanso Ranger District	Pine Valley Creek	NPC3A, NPC3C, NPC3D, PVC1A	2/1998-4/1998	
15	Orange County Environmental Health	Mouth of San Juan Creek	ODB02, ODB05	6/1999-10/2002	Analyzed to confirm the water quality impairment at beaches, provide an insight regarding the spatial extent of impairments, and assess the relationship with wet and dry conditions
		Mouth of Aliso Creek	OLB00		
		Dana Point	OSL25, BDP12, BDP13, BDP14, BDP15		
16	County of San Diego, Department of Health (DEH)	Mouth of Agua Hedionda Lagoon	EH-460	5/1999-10/2001	
		Scripps	EH-260	4/1999-9/2000	
		Scripps	EH-290	4/1999-11/2000	
		Mouth of San Luis Rey River	EH-490	4/1999-10/2001	
		Mouth of Agua Hedionda Lagoon	EH-440	4/1999-10/2001	
		Mouth of Agua Hedionda Lagoon	EN-030	1/1999-11/2001	
		Scripps	EH-250, EH-280	4/1999-10/2002	
		Scripps	EH-300	1/1999-10/2002	
		Scripps	EH-310	4/1999-9/2002	
		Buena Vista	EH-475	10/1999-10/2002	
		San Marcos	EH-420	4/1999-10/2002	
		San Dieguito	EH-380, EH-390	4/1999-10/2002	
		San Clemente	EH-510	8/1999-10-2002	
		San Clemente	EH-520	6/1999-10/2002	
		Scripps	EH-305	2/2001-10/2002	
		Agua Hedionda	EH-455	1/2001-10/2001	

Index	Data Source	Location	Station ID	Years Compiled	Purpose
17	South Orange County Wastewater Authority (SOCWA)	San Clemente and mouth of San Juan Creek Lagoon	S-0, S-1, S-3, S-5, S-7, S-11, S-13, S-15, S-17, S-19, S-23	3/2000-10/2002	
		Mouth of San Juan Creek Lagoon	S-2	1/1999-10/2002	
		Dana Point and mouth Aliso Creek	S01, S02, S04, S06, S07, S08, S09, S10	1/1999-10/2002	
		Laguna/mouth of San Joaquin	S11, S13, S15, S14, S16	1/1999-10/2002	
18	City of San Diego ¹	Miramar, Scripps and mouth of San Diego River	FM-010, FM-030, FM-080	1/1999-10/2002	
			FM-050	1/1999-9/2002	
19	City of Oceanside	Mouth of San Luis Rey River	OC-100	1/1999-10/2002	
		Mouth of Loma Alta Slough	OC-022		
20	City of Escondido	Mouth of Escondido Creek and San Dieguito Creek	SE-020, SE-010	1/1999-10/2002	
Meteorological Data					
21	National Oceanographic and Atmospheric Administration-National Climatic Data Center (NOAA-NCDC)	San Diego	COOP ID #047740	1990-2002	Hourly rainfall data used for hydrologic and water quality modeling for wet-weather conditions
		Laguna/San Joaquin, Aliso, Dana Point, San Juan, San Clemente	CA4650		
		Aliso Creek, San Juan Creek	CA8992		
		San Juan Creek	CA7837		
		Santa Margarita River	CA8844		
		Santa Margarita, San Luis Rey	CA6319		
		Santa Margarita, San Luis Rey, San Luis Rey, Loma Alta, Buena Vista, Agua Hedionda, San Marcos	CA6379		
		Pine Valley Creek	CA2239		
		Miramar, Scripps, Rose Creek, Tecolate, San Diego River, Chollas	CA7740		
22	California Irrigation Management Information System (CIMIS)	Escondido Creek, San Dieguito Creek, Miramar	CIMIS74	1990-2002	Hourly rainfall, Evaporation data used for hydrologic and water quality modeling for wet-weather conditions

23	Automatic Local Evaluation in Real-Time (ALERT) Flood Warning System	San Clemente	21	1990-2002	Hourly rainfall data used for hydrologic and water quality modeling for wet-weather conditions
		San Marcos, Escondido Creek, San Deiguito Creek, Miramar	22		
		San Dieguito Creek, Miramar, Rose Creek, San Diego River	24		
		Chollas	31		
		Santa Margarita, San Luis Rey, San Dieguito	52		
		San Luis Rey, San Dieguito, Miramar, San Diego	53		

¹ Not complete at the time of TMDL report development, Final report not available for study

² www.usgs.gov

Table G-2. GIS Data Sources

Index	Data Type	Data Source	Years Compiled	Purpose
24	Stream network	USGS -National Hydrography Dataset (NHD)	-	Determination of representative modeled stream for each sub-watershed
25	Land Use	USGS - Multi-Resolution Land Characteristics (MRLC)	1993	Designation of Land uses in the region
		San Diego's Regional Planning Agency (SANDAG)	2001	
26	Soils	Southern California Association of Governments (SCAG)	2000	STATSGO soil data used for modeling
27	Topographic and digital elevation models (DEMs)	USDA-NRCS (STATSGO)	1994	To derive streams and watershed boundaries
		USEPA BASINS, USGS ²	-	

² www.usgs.gov