

Appendix VIIa. Ambient water temperature and chemistry measures taken at sampling locations in May 1998.

Chemical Parameter	ALISO CREEK		SANTA MARGARITA RIVER								
	AC-PPD	AC-CCR	SMR-WGR	SMR-DP	SMR-CP	SMR-SMB	MC-GS	TC-I-15	RC-WGR	MC-WB	SC-SCR
pH											
Dissolved Oxygen											
Specific Conductance											
Temperature (°C)	25.0	23.0	14.0	20.0	17.0	12.0	16.0	18.0	11.0	16.0	17.0
Salinity											
Average Depth (cm)	7.0	6.0	15.0	24.0	19.0	32.0	17.0	14.0	11.0	3.0	23.0

Chemical Parameter	SAN LUIS REY RIVER					CARLSBAD						
	KC-LR	SLRR-PG	SLRR-395	SLRR-MR	SLRR-FR	LAC-CB	LAC-ECR	BVR-ED	BVR-SVW	AHC-SA	AHC-ECR	TC-TCNP
pH												DRY
Dissolved Oxygen												
Specific Conductance												
Temperature	12.0	11.0	15.0	15.0	18.0	14.0	19.0	13.0	21.0	20.0	25.0	
Salinity												
Average Depth	10.0	27.0	27.0	36.0	9.0	3.0	5.0	4.0	7.0	2.0	8.0	

Appendix VIIa (continued). Ambient water temperature and chemistry measures taken at sampling locations in May 1998.

Chemical Parameter	CARLSBAD					ESCONDIDO CREEK			LOS PENASQUITOS CREEK			
	SMC-M	SMC-SP	SMC-LCCC	SMC-RSFR	EC-GVR	EC-HRB	EC-EF	EC-RSFR	RC-HP	LPC-CCR	CCC-805	LPC-BMR
pH											DRY	
Dissolved Oxygen												
Specific Conductance												
Temperature	19.0	17.0	18.0	19.0	15.0	23.0	22.0	22.0	14.0	15.0		18.0
Salinity												
Average Depth	6.0	5.0	7.0	9.0	5.0	16.0	11.0	10.0	5.0	5.0		6.0

Chemical Parameter	SAN DIEGO RIVER			SWEETWATER RIVER			SAN JUAN CREEK		
	SDR-MD	SDR-MT	SDR-1	SR-79	SR-94	SR-WS	SJC-74	OC-FR	ATC-AP
pH								DRY	
Dissolved Oxygen									
Specific Conductance	3400	2250	3930	438	1930	36.80	890		970
Temperature	26.0	25.0	27.8	23.9	22.2	25.0	23.3		22.8
Salinity									
Average Depth	16.3	15.7	16.7	9.7	8.0	6.3	13.0		23.7

Appendix VIIb. Ambient water temperature and chemistry measures taken at sampling locations in September 1998.

Chemical Parameter	ALISO CREEK		SANTA MARGARITA RIVER								
	AC-PPD	AC-CCR	SMR-WGR	SMR-DP	SMR-CP	SMR-SMB	MC-GS	TC-I-15	RC-WGR	MC-WB	SC-SCR
pH						DRY				DRY	
Dissolved Oxygen											
Specific Conductance	262	3670	1170	1250	1180		610	1100	2050		1350
Temperature (°C)	34.4	33.3	25.5	24.4	23.8		23.8	20	22.2		24.4
Salinity											
Average Depth (cm)	11.7	15.0	27.0	17.7	8.3		12.0	11.0	9.3		16.0

Chemical Parameter	SAN LUIS REY RIVER					CARLSBAD						
	KC-LR	SLRR-PG	SLRR-395	SLRR-MR	SLRR-FR	LAC-CB	LAC-ECR	BVR-ED	BVR-SVW	AHC-SA	AHC-ECR	TC-TCNP
pH												DRY
Dissolved Oxygen												
Specific Conductance	2480	360	1900	2520	2150	2600	4600	1360	1380	2150	2700	
Temperature	21.1	25.5	21.1	22.2	22.2	25	25	24.4	26.1	23.3	27.2	
Salinity												
Average Depth	8.3	34.7	9.7	10.0	14.0	9.0	12.3	6.7	7.7	2.0	13.3	

Appendix VIIb (continued). Ambient water temperature and chemistry measures taken at sampling locations in September 1998.

Chemical Parameter	CARLSBAD					ESCONDIDO CREEK			LOS PENASQUITOS CREEK			
	SMC-M	SMC-SP	SMC-LCCC	SMC-RSFR	EC-GVR	EC-HRB	EC-EF	EC-RSFR	RC-HP	LPC-CCR	CCC-805	LPC-BMR
pH												
Dissolved Oxygen												
Specific Conductance	2090	1680	3720	2600	3700	1980	2200	DRY	2310	2880	3500	3190
Temperature	25.5	26.1	27.8	27.2	24.4	30.0	26.0	DRY	23.3	23.3	28.0	23.9
Salinity												
Average Depth	9.67	14.0	7.0	6.0	8.3	17.67	20.7	DRY	5.3	5.7	5.3	17.0

Chemical Parameter	SAN DIEGO RIVER			SWEETWATER RIVER			SAN JUAN CREEK		
	SDR-MD	SDR-MT	SDR-1	SR-79	SR-94	SR-WS	SJC-74	OC-FR	ATC-AP
pH									
Dissolved Oxygen									
Specific Conductance	3400	2250	3930	438	1930	36.80	890	DRY	970
Temperature	26.0	25.0	27.8	23.9	22.2	25.0	23.3	DRY	22.8
Salinity									
Average Depth	16.3	15.7	16.7	9.7	8.0	6.3	13.0	DRY	23.7

Appendix VIIc. Ambient water temperature and chemistry measures taken at sampling locations in November 1998.

Chemical Parameter	ALISO CREEK		SANTA MARGARITA RIVER								
	AC-PPD	AC-CCR	SMR-WGR	SMR-DP	SMR-CP	SMR-SMB	MC-GS	TC-I-15	RC-WGR	MC-WB	SC-SCR
pH	7.2	7.4	8.2	8.3	8.3	DRY	8.2	7.6	7.8	DRY	8.5
Dissolved Oxygen	8.2	7.3	10	10	10.2		9.6	8.0	9.2		10.2
Specific Conductance	2870	2970	1090	1880	1390		700	1050	1130		1570
Temperature (°C)	20.0	20.0	14.4	13.3	15.0		16.7	15.5	11.7		13.9
Salinity											
Average Depth (cm)	10.3	15.0	14.8	17.3	1.6		10.4	12.9	9.5		16.4

Chemical Parameter	SAN LUIS REY RIVER					CARLSBAD						
	KC-LR	SLRR-PG	SLRR-395	SLRR-MR	SLRR-FR	LAC-CB	LAC-ECR	BVR-ED	BVR-SVW	AHC-SA	AHC-ECR	TC-TCNP
pH	7.4	7.7	7.0	7.4	7.5	7.4	7.2	7.6	7.2	DRY	7.3	7.5
Dissolved Oxygen	9.4	10.4	9.1	10	11.4	8.75	9.3	15.5	12.0		9.5	7.8
Specific Conductance	2100	360	1610	1640	1640	3925	3450	1275	1870		2200	3300
Temperature	15.5	11.1	16.7	13.3	11.1	15.5	16.1	14.4	16.1		15.5	15.5
Salinity												
Average Depth	8.0	9.0		23.3	32.7	6.7	9.7	3	5.7		19.0	7.1

Appendix VIIc (continued). Ambient water temperature and chemistry measures taken at sampling locations in November 1998.

Chemical Parameter	CARLSBAD					ESCONDIDO CREEK			LOS PENASQUITOS CREEK			
	SMC-M	SMC-SP	SMC-LCCC	SMC-RSFR	EC-GVR	EC-HRB	EC-EF	EC-RSFR	RC-HP	LPC-CCR	CCC-805	LPC-BMR
pH	7.2	7.6	7.4	7.4	7.3	8.1	7.7	DRY	7.3	7.9	8.3	7.8
Dissolved Oxygen	9.9	8.8	9.4	9.8	9.1	14.2	10.4		6.5	8.6	8.6	8.4
Specific Conductance	1600	1640	2000	1730	2980	1880	1600		1780	1980	3600	2300
Temperature	13.3	14.4	14.4	14.4	13.3	20.0	13.3		11.1	11.1	15.5	14.4
Salinity												
Average Depth	14.3	12.7	9.7	13.0	10.7	23.3	20.0		6.0	7.78	8.0	20.0

Chemical Parameter	SAN DIEGO RIVER			SWEETWATER RIVER			SAN JUAN CREEK		
	SDR-MD	SDR-MT	SDR-1	SR-79	SR-94	SR-WS	SJC-74	OC-FR	ATC-AP
pH	7.8	7.7	7.6	8.1	7.6	7.3	7.2	DRY	7.3
Dissolved Oxygen	5.8	10.3	2.3	9.5	7.8	6.0	9.25		9.8
Specific Conductance	1470	1380	1650	335	1950	1870	700		810
Temperature	13.9	13.3	15.5	10	13.3	12.2	14.4		14.4
Salinity									
Average Depth	13.7	13.7	26.2	15.4	16.1	9.3	15.8		11.8

Appendix VIIId. Ambient water temperature and chemistry measures taken at sampling locations in May 1999.

Chemical Parameter	ALISO CREEK		SANTA MARGARITA RIVER								
	AC-PPD	AC-CCR	SMR-WGR	SMR-DP	SMR-CP	SMR-SMB	MC-GS	TC-I-15	RC-WGR	MC-WB	SC-SCR
pH	8.7	8.9	8.7	8.3		8.2	N/A	N/A	7.6	DRY	8.4
Dissolved Oxygen	9.95	8.24	8.85	9.93	6.69	6.30	10.10	6.32	6.41		9.0
Specific Conductance	2560	3280	1124	1281	1150	2720	1028	1178	844		1371
Temperature (°C)	29.3	29.0	22.1	30.1	17.8	16.4	25.2	23.6	17.0		21.8
Salinity	1.3	1.7	0.6	0.6	0.6	1.4	0.5	0.6	0.4		0.7
Average Depth (cm)	11.8	14.7	22.2	24.4	10.9	17.8	26.4	20.0	8.0		17.1

Chemical Parameter	SAN LUIS REY RIVER					CARLSBAD						
	KC-LR	SLRR-PG	SLRR-395	SLRR-MR	SLRR-FR	LAC-CB	LAC-ECR	BVR-ED	BVR-SVW	AHC-SA	AHC-ECR	TC-TCNP
pH	8.1	8.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	DRY	8.3	7.9
Dissolved Oxygen	7.90	8.43	4.19	7.48	10.82	6.14	11.08	15.25	8.54		6.3	6.95
Specific Conductance	2319	465.3	1990	1072	2242	615	1802	1887	2482		1892	5.85
Temperature	17.3	19.5	18.7	15.9	21.0	16.8	21.5	22.7	16.6		16.9	19.9
Salinity	1.4	0.2	0.9	0.5	1.2	0.4	0.9	1.0	1.3		1.0	3.2
Average Depth	7.0	33.8	13.8	23.3	26.9	8.4	6.4	9.1	6.9		12.9	7.3

Appendix VIId (continued). Ambient water temperature and chemistry measures taken at sampling locations in May 1999.

Chemical Parameter	CARLSBAD					ESCONDIDO CREEK			LOS PENASQUITOS CREEK			
	SMC-M	SMC-SP	SMC-LCCC	SMC-RSFR	EC-GVR	EC-HRB	EC-EF	EC-RSFR	RC-HP	LPC-CCR	CCC-805	LPC-BMR
pH	N/A	N/A	N/A	N/A	N/A	8.8	8.5	DRY	8.6	7.9	8.1	8.0
Dissolved Oxygen	10.39	6.30	6.9	8.06	5.96	17.2	8.69		11.66	7.0	9.1	7.12
Specific Conductance	2012	1963	1835	1482	3960	1852	1887		1860	2967	2990	3101
Temperature	17.0	18.1	18.2	18	14.8	23.2	17.5		20.9	17	17.1	17.3
Salinity	1.0	1.0	0.9	0.7	2.1	0.9	1.0		0.9	1.6	1.6	1.6
Average Depth	11.3	11.5	9.5	12.9	11.3	17.1	15.8		9.1	7.5	10.2	14.0

Chemical Parameter	SAN DIEGO RIVER			SWEETWATER RIVER			SAN JUAN CREEK		
	SDR-MD	SDR-MT	SDR-1	SR-79	SR-94	SR-WS	SJC-74	OC-FR	ATC-AP
pH	8.3	8.9	8.0	8.1	7.9	7.8	8.2	DRY	8.8
Dissolved Oxygen	6.12	12.40	5.05	7.2	7.18	5.42	6.32		9.32
Specific Conductance	1747	2035	2324	439.1	2390	3700	1012		894
Temperature	21.9	20.7	20.1	16	16.1	17.4	16.2		23.9
Salinity	0.9	1.0	1.2	0.2	1.2	2.0	0.5		0.4
Average Depth	14.7	17.8	21.1	16.4	12.9	12.4	19.3		9.3