

SDRWQCB

LA POSTA CREEK

At this time, it is not recommended that La Posta Creek be added to the 303(d) list

Watershed Characteristics

The Tijuana River Watershed comprises a region of approximately 1,750 square miles that lies astride the California-Baja California border. Approximately one third of the watershed is in the United States and two thirds is in Mexico. La Posta Creek is located within the Tijuana River Watershed. The creek is 18 miles long and has a hydrologic unit basin number of 11.60-11.70. Beneficial uses of the creek include municipal, agricultural, and industrial service and process supply. Other uses include freshwater replenishment, contact and non-contact recreation, and warm and wildlife habitats.

269

Water Quality Objectives not Obtained

Total Dissolved Solids (TDS) concentrations are in exceedance of the water quality objective.

Evidence of Impairment

Attached is a summary of the TDS levels exceeding the water quality objective.

Extent of Impairment

The specific area impaired is unknown. Only one location was sampled. It is likely, however, that most of the creek was impacted by the high TDS concentrations.

Potential Sources

The most likely source of contamination is stormwater runoff. All violations for TDS occurred in January and October, which are rainy season months for this region.

TMDL Priority

At this time, it is not recommended that La Posta Creek be added to the 303(d) list. TDS concentrations exceeded water quality objectives once in 1997 and once in 1998 (during rainy season only).

r/ae

LA POSTA CREEK

Date	Parameter	Value	Units	Water Quality Objective	Value	Units
29-Jan-98	TDS	320,000	mg/l	Parameter		
10-Oct-97	TDS	140,000	mg/l	TDS	500	mg/L

Species Level Benthic Macroinvertebrates Worksheet

Data Entry

Notes:

Report

Total Specimens
MFBI
TR
EPT Index
EPT/CHIR

Ephemeroptera	C	No. Family	No. species	MFBI Value	HBI Value	Calc MFBI	Calc HBI
Baetidae	1	0		4		0	
<i>Baetis sp. A</i>							0
<i>Baetis sp. B</i>							0
<i>Baetis bicaudatus</i>							0
<i>Baetis intercalaris</i>							0
<i>Baetis parvus</i>							0
<i>Baetis tricaudatus</i>							0
<i>Callibaetis sp.</i>							0
<i>Enallagma sp.</i>							0
Totals	0		0		0	0	0

Caenidae	1	0		7		0	
<i>Caenis sp.</i>							0
<i>Caenis tardata</i>							0
Totals	0		0		0	0	0

Ephemerellidae	0	0		1		0	
<i>Drunella sp.</i>							0
<i>Ephemerella sp.</i>							0
<i>Seratella sp.</i>							0
Totals	0		0		0	0	0

Heptageniidae	1	0		4		0	
<i>Epeorus sp.</i>							0
<i>Ironodes sp.</i>							0
<i>Ironodes californicus</i>							0
<i>Rhithrogena sp.</i>							0
Totals	0		0		0	0	0

Tricorythidae	1	0		4		0	
<i>Tricorythodes sp.</i>							0
<i>Tricorythodes fallax</i>							0
Totals	0		0		0	0	0

Plecoptera		No. Family	No. species	MFBI Value	HBI Value	Calc MFBI	Calc HBI
Capniidae		0		1		0	
<i>Capnia sp.</i>							0
Totals	0		0		0	0	0

Chloroperlidae		0		1		0	
<i>Sweltsa sp.</i>							0
<i>Sweltsa continua</i>							0
<i>Sweltsa pacifica</i>							0
<i>Sweltsa townesi</i>							0
<i>Haploperla chilnualna</i>							0
<i>Plumiperla diversa</i>							0
<i>Plumiperla spinosa</i>							0
Totals	0		0		0	0	0

syn.A. spatulata

Can occur in slow lowland coastal plain river

Nemouridae		0		2		0	
<i>Malenka sp.</i>							0
<i>Malenka biloba</i>							0
<i>Malenka californica</i>							0
<i>Malenka depressa</i>							0
<i>Malenka marionae</i>							0
<i>Nemoura spiniloba</i>							0
<i>Prstostoia besametsa</i>							0
<i>Soyedina nevadensis</i>							0
<i>Soyedina producta</i>							0
<i>Visoka cataractae</i>							0
<i>Zapada sp.</i>							0
<i>Zapada cinctipes</i>							0

<i>Zapada columbiana</i>						0
<i>Zapada cordillera</i>						0
<i>Zapada frigida</i>						0
<i>Zapada haysi</i>						0
<i>Zapada oregonensis</i>						0
Totals	0		0		0	0

Perlidae				1		
<i>Calineuria californica</i>						
<i>Claassenia sabulosa</i>						
<i>Doroneuria baumanni</i>						
<i>Hesperoperla hoguei</i>						
<i>Hesperoperla pacifica</i>						
Totals	0					

Perlodidae				2		
<i>Baumannella alameda</i>						
<i>Calliperla luctosa</i>						
<i>Cascadoperla trictura</i>						
<i>Chernokrilus erratus</i>						
<i>Chernokrilus misnomus</i>						
<i>Chernokrilus venustus</i>						
<i>Cosumnoperla hypocrena</i>						
<i>Cultus pilatus</i>						
<i>Cultus tostonus</i>						
<i>Frissonia picticeps</i>						
<i>Isogenoides colubrinus</i>						
<i>Isoperla acula</i>						
<i>Isoperla adunca</i>						
<i>Isoperla baumanni</i>						
<i>Isoperla bifurcata</i>						
<i>Isoperla denningi</i>						
<i>Isoperla fulva</i>						
<i>Isoperla marmorata</i>						
<i>Isoperla mormona</i>						
<i>Isoperla pinta</i>						
<i>Isoperla quinquepunctata</i>						
<i>Isoperla roguensis</i>						
<i>Isoperla sobria</i>						
<i>Isoperla sordida</i>						
<i>Kogutus nonus</i>						
<i>Megarcys subtruncata</i>						
<i>Megarcys yosemite</i>						
<i>Oroperla barbara</i>						
<i>Osobenus yakimae</i>						
<i>Perlinodes aureus</i>						
<i>Rickera sorpta</i>						
<i>Salmoperla sylvanica</i>						
<i>Skwala curvata</i>						
Totals						

Taeniopterygidae				2		

Trichoptera						
Brachycentridae				1		
<i>Amiocentrus aspilus</i>						
<i>Brachycentrus sp.</i>						
<i>Micrasema sp.</i>						
<i>Micrasema onisca</i>						

Glossomatidae				0		
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Helicopsychidae				3		
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Hydropsychidae				4		
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Hydroptilidae				4		
Lepidostomatidae				1		
Leptoceridae				1		
Limnephilidae				4		
Philopotamidae				3		
Polycentropodidae				6		
Pyschomyiidae				2		
Rhyacophilidae				0		
Sericostomatidae				3		

Odonata

Aeshnidae	3
Calopterygidae	5
Coenagrionidae	9
Cordulegastridae	3
Gomphidae	1
Libellulidae	9

Diptera

Athericidae	2
Blephariceridae	0
Ceratopogonidae	6
Chironomidae R	8
Chironomidae O	6
Dolichopodidae	4
Empididae	6
Ephydriidae	6
Pyschodidae	10
Simuliidae	6
Muscidae	6
Syrphidae	10
Tabanidae	6
Tipulidae	3

Coleoptera

Dryopidae	5
Elmidae	4
Psephenidae	4

Megaloptera

Corydalidae	0
Sialidae	4

Lepidoptera

Pyralidae	5
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Amphipoda

Gammaridae	4
Talitridae	8

Isopoda

Asellidae	8
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Family Level Benthic Macroinvertebrates Worksheet

Data Entry

Ephemeroptera	C	Number	MFBI Value	Calc MFBI
Baetidae	1	12	4	48
Caenidae	1	23	7	161
Ephemerellidae			1	0
Heptageniidae			4	0
Tricorythidae			4	0
				0
Totals	2	35	20	209

Plecoptera	C	Number	MFBI Value	Calc MFBI
Capniidae	1	1	1	1
Chloroperlidae			1	0
Nemouridae			2	0
Perlidae			1	0
Perlodidae	1	3	2	6
Taeniopterygidae			2	0
Totals	2	4	9	7

Trichoptera	C	Number	MFBI Value	Calc MFBI
Brachycentridae			1	0
Glossosomatidae	1	35	0	0
Helicopsychidae			3	0
Hydropsychidae			4	0
Hydroptilidae	1	31	4	124
Lepidostomatidae			1	0
Leptoceridae			1	0
Limnephilidae			4	0
Philopotamidae	1	7	3	21
Polycentropodidae			6	0
Pyschomyiidae			2	0
Rhyacophilidae	1	9	0	0
Sericostomatidae			3	0
Totals	4	82	32	145

Odonata	C	Number	MFBI Value	Calc MFBI
Aeshnidae			3	0
Calopterygidae			5	0
Coenagrionidae			9	0
Cordulegastridae			3	0
Gomphidae			1	0
Libellulidae			9	0
Totals	0	0	30	0

Diptera	C	Number	MFBI Value	Calc MFBI
Athericidae			2	0
Blephariceridae			0	0
Ceratopogonidae			6	0
Chironomidae R	1	1	8	8
Chironomidae O	1	12	6	72
Dolichopodidae			4	0
Empididae			6	0
Eyphyridae			6	0
Pyschodidae			10	0
Simuliidae			6	0
Muscidae			6	0
Syrphidae			10	0
Tabanidae			6	0
Tipulidae			3	0
Totals	2	13	79	80

Coleoptera	C	Number	MFBI Value	Calc MFBI
Dryopidae			5	0
Elmidae			4	0
Psephenidae			4	0

Report

Total Specimens	134
MFBI	3.29
TR	10
EPT Index	8
EPT/CHIR	9.31

Totals	0	0	13	0

Megaloptera	C	Number	MFBI Value	Calc MFBI
Corydalidae			0	0
Sialidae			4	0
Totals	0	0	4	0

Lepidoptera	C	Number	MFBI Value	Calc MFBI
Pyralidae			5	0
Totals	0	0	5	0

Amphipoda	C	Number	MFBI Value	Calc MFBI
Gammaridae			4	0
Talitridae			8	0
Totals	0	0	12	0

Isopoda	C	Number	MFBI Value	Calc MFBI
Asellidae			8	0
Totals	0	0	8	0

Exceedences

Kitchen Creek

Date	Parameter	Avg. Value	WQO
29-Jan-98	TDS	167 g/l	0.5 g/l
10-Oct-97	TDS	160 g/l	0.5 g/l

La Posta Creek

Date	Parameter	Avg. Value	WQO
28-Jan-98	TDS	320 g/l	0.5 g/l
10-Oct-97	TDS	140 g/l	0.5 g/l

WATERSHED WATER QUALITY REPORT SHEET

Watershed	Cottonwood
Drainage	La Posta
Station	LAP4

Sampling Date: 09-Oct-97

SAMPLER	DWG
UNIT	YSI #1

YSI Datasonde Physicochemical Data

DATE	DATE	TIME	TEMP	SP COND	DO %	DO CONC	DEPTH	PH	ORP	TDS
MM/DD/YY	MMDDYY	TIME	C	mS/cm	%	mg/l	m		mV	g/l
10/09/97 11:04	100997	113801	14.33	0.728	69.4	7.08	0	7.42	103	0.377
10/09/97 11:05	100997	113927	14.34	0.727	68.9	7.03	0	7.42	99	0.376
10/09/97 11:07	100997	114111	14.37	0.728	68.6	6.99	0	7.44	96	0.377
10/09/97 11:09	100997	114309	14.39	0.727	68.3	6.96	0	7.44	93	0.377
10/09/97 11:10	100997	114354	14.4	0.727	68.3	6.96	0	7.44	92	0.377
10/09/97 11:10	100997	114424	14.41	0.727	68.2	6.95	0	7.44	92	0.377

AVERAGE	14.37	0.727	68.62	7.00	0.00	7.43	95.83	0.38
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Observations:	
Flow	0.15 cfs
Habitat Score	102
Sky	clear
Wind	calm
Direction	na
Air Temp	25.8 F

Comments:
 Watershed sampling and surveillance.
 Site inspection and photo documentation. Very low flows observed. Flow increased 100' downstream to approximately 0.5 cfs. Illegal immigrants in vicinity.

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPOM	0
Organics	0
Crypto-Giardia	0
Photo Documentation	4

Water Chemistry Profile

Rapid Bioassessment Protocol

Constituents	HACH Method	Results	Habitat Assessment			Benthic Macroinvertebrates					
			Ref. Sta.	Score	% Comp	Rating	Metric	Ref. Sta.	Study Site	% Comp	Rating
NH4-N (mg/l)	380	0.07	CWD3a	143	71.33%	FAIR	MFBI				
NO2-N (mg/l)	371	0.006	LCC2	113	90.27%	GOOD	TR				
NO3-N (mg/l)	351	1.28			#DIV/0!		PER CONT				
PO4 P (mg/l)	490	0.28			#DIV/0!		EPT				
Turbidity (NTU)	2100P	1.30	Ideal	155	65.81%	FAIR	% EPT				
Mn (mg/l)	290						EPT/CHIR				
Fe (Ferrous, mg/l)	255						SCFL				
Cu (mg/l)	135						HBI				
Al (mg/l)	10						CLI				
Analysis Date:	10-Oct-97		Analysis Date:	09-Oct-97			Analysis Date:	10-Oct-97			
Analyst:			Analyst:				Analyst:				

file new LAP4-282 (2 pgs)

WATERSHED WATER QUALITY REPORT SHEET

Watershed	Cottonwood
Drainage	La Posta Creek
Station	LAP4

Sampling Date: 19-May-97

SAMPLER	DWG
UNIT	YSI #1

YSI Datasonde Physicochemical Data

DATE	DATE	TIME	TEMP	SP COND	DO %	DO CONC	DEPTH	PH	ORP	TDS	
MM/DD/YY	TIME	MMDDYY	C	mS/cm	%	mg/l	m		mV	g/l	
05/19/97	11:35	51997	122316	17.79	0.738	73.4	6.96	0	7.71	105	0.413
05/19/97	11:35	51997	122341	17.67	0.74	72.6	6.9	0	7.7	103	0.413
05/19/97	12:02	51997	125010	17.62	0.743	69.4	6.6	0	7.72	87	0.415
05/19/97	12:02	51997	125030	17.62	0.743	69.4	6.6	0	7.72	87	0.415
05/19/97	12:02	51997	125047	17.62	0.743	69.4	6.6	0	7.71	87	0.415
05/19/97	12:03	51997	125119	17.64	0.742	69.5	6.61	0	7.72	87	0.415

AVERAGE	17.66	0.742	70.62	6.71	0.00	7.71	92.67	0.41
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Observations	
Flow	6.12 cfs
Habitat Score	139
Sky	PC 40%
Wind	1-2
Direction	W
Air Temp	88 F

Comments
Watershed sampling and surveillance.
Heavy use of site by livestock and undocumented immigrants. Fresh cattle feces in stream and on banks. Severe bank erosion immediately upstream from site. A new trail has been cut through the Narrows by immigrant traffic. Border Patrol reported that immigrants are using the willows on Lester Hook's property downstream for cover (050697 contact in Hauser Canyon).
Stream flow moderately low. This stream segment from the head of Cameron Valley through the Narrows remained flowing all summer in 1996. It is probable that La Posta Creek may cease flowing this year.
Benthic fauna was dominated by Hydropsyche and Baetis. Philopotamidae, Psychomyiidae, and Helicopsychidae were also observed.
The site is nearly overgrown with Nasturtium and tules. Free flow is maintained only in narrow riffle/runs and gradient drops where stream flow is greater than 1 ft/s.

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPOM	1
Organics	0
Crypto-Giardia	0

Water Chemistry Profile

Rapid Bioassessment Protocol

Constituents	HACH Method	Results	Habitat Assessment			Benthic Macroinvertebrates					
			Ref. Sta.	Score	% Comp.	Rating	Metric	Ref. Sta.	Study Site	% Comp.	Rating
NH4-N (mg/l)	380	0.08	CWD3a	143	97.20%	Comparable	MFBI				
NO2-N (mg/l)	371	0.005	LCC2	113	123.01%	Supporting	TR				
NO3-N (mg/l)	351	0.66			#DIV/0!		PER CONT				
PO4 P (mg/l)	490	0.40			#DIV/0!		EPT				
Turbidity (NTU)	2100P	1.10	Ideal	155	89.68%	Supporting	% EPT				
Mn (mg/l)	290						EPT/CHIR				
Fe (Ferrous, mg/l)	255						SCFL				
Cu (mg/l)	135						HBI				
Al (mg/l)	10						CLI				
Analysis Date	21-May-97		Analysis Date	19-May-97			Analysis Date	01-Jan-97			
Analyst			Analyst				Analyst				

Habitat Assessment Scale			Metric Assessment Scale						
> 90%	Comparable to reference	Excellent	Metric	Excellent	Very Good	Good	Fair	Poor	
75-88%	Supporting	Good	MFBI						
60-73%	Partially supporting	Fair	TR						
<58%	Not supporting	Poor	PER CONT						
			EPT						
			% EPT						
			EPT/CHIR						
			SCFL						
			HBI						
			CLI						

YSI WATER QUALITY PROFILE REPORT SHEET

Watershed	Cottonwood
Drainage Station	La Posta LAP4

DATE 31-Mar-97

SAMPLER UNIT	DWG YSI #1
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DATE MM/DD/YY TIME	DATE MMDDYY	TIME	TEMP C	SP COND mS/cm	DO % %	DO CONC mg/l	DEPTH m	PH	ORP mV	TDS g/l
03/31/97 14:37	33197	153020	17.22	0.743	91.6	8.79	0	8.18	213	0.411
03/31/97 14:37	33197	153046	17.11	0.743	90.8	8.73	0	8.17	213	0.41
03/31/97 14:38	33197	153146	16.97	0.742	89.4	8.62	0	8.16	212	0.408
03/31/97 14:39	33197	153200	16.97	0.742	89.2	8.6	0	8.16	212	0.408
03/31/97 14:39	33197	153217	16.95	0.741	89	8.59	0	8.16	212	0.408

AVERAGE

17.044	0.7422	90	8.666	0	8.166	212.4	0.409
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Observations:

Flow		cfs
Sky	PC 40%	
Wind	10-15	
Direction	NE	
Air Temp	20.5	C

Comments:

Site inspection and sampling.
 Observed evidence of increased use of this area by both cattle and illegal immigrants.
 Stream banks and channel beaten down by cattle. Immigrants have laid a log bridge over the creek and have been camping nearby.

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	0
CPOM	0
Organics	0
Crypto-Giardia	0

Station Lap4-090

WATERSHED WATER QUALITY REPORT SHEET

Watershed	Cottonwood
Drainage	La Posta Creek
Station	LAP4

Sampling Date: 19-May-97

SAMPLER	DWG
UNIT	YSI #1

YSI Datasonde Physicochemical Data

DATE	DATE	TIME	TEMP	SP COND	DO %	DO CONC	DEPTH	PH	ORP	TDS	
MMDDYY	TIME	MMDDYY	C	ms/cm	%	mg/l	m		mV	g/l	
05/19/97	11:35	51997	122316	17.79	0.738	73.4	6.96	0	7.71	105	0.413
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05/19/97	12:02	51997	125047	17.62	0.743	69.4	6.6	0	7.71	87	0.415
05/19/97	12:03	51997	125119	17.64	0.742	69.5	6.61	0	7.72	87	0.415

AVERAGE	17.66	0.742	70.62	6.71	0.00	7.71	92.67	0.41
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Observations:	
Flow	6.12 cfs
Habitat Score	139
Sky	PC 40%
Wind	1-2
Direction	W
Air Temp	88 F

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bacti	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPOM	1
Organics	0
Crypto-Giardia	0

Comments:
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 Heavy use of site by livestock and undocumented immigrants. Fresh cattle feces in stream and on banks. Severe bank erosion immediately upstream from site. A new trail has been cut through the Narrows by immigrant traffic. Border Patrol reported that immigrants are using the willows on Lester Hook's property downstream for cover (050697 contact in Hauser Canyon).
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 The site is nearly overgrown with Nasturtium and tules. Free flow is maintained only in narrow riffle/runs and gradient drops where stream flow is greater than 1 ft/s.

Water Chemistry Profile

Rapid Bioassessment Protocol

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NO3-N (mg/l)	351	0.66			#DIV/0!		PER CONT				
PO4 P (mg/l)	490	0.40			#DIV/0!		EPT				
Turbidity (NTU)	2100P	1.10	Ideal	155	89.68%	Supporting	% EPT				
Mn (mg/l)	290						EPT/CHIR				
Fe (Ferrous, mg/l)	255						SCFL				
Cu (mg/l)	135						HBI				
Al (mg/l)	10						CLI				
Analysis Date:	21-May-97		Analysis Date:	19-May-97		Analysis Date:	01-Jan-97				
Analyst:			Analyst:			Analyst:					

Habitat Assessment Scale			Metric Assessment Scale						
> 90%	Comparable to reference	Excellent	Metric	Excellent	Very Good	Good	Fair	Poor	
75-88%	Supporting	Good	MFBI						
60-73%	Partially supporting	Fair	TR						
<58%	Not supporting	Poor	PER CONT						
			EPT						
			% EPT						
			EPT/CHIR						
			SCFL						
			HBI						
			CLI						

file name lap4-139

WATERSHED WATER QUALITY REPORT SHEET

Watershed:	Cottonwood
Drainage:	La Posta
Station:	LAP4A

Sampling Date: 28-Jan-98

SAMPLER:	DWG
UNIT:	207002

YSI Datasonde Physicochemical Data

DATE	DATE	TIME	TEMP	SP COND	TDS	DO	DO CONC	Depth	pH	ORP	Salinity
MM/DD/YY	TIME	MMDDYY	C	mS/cm	g/l	% sat	mg/l	m	log units	mV	ppt
01/28/98	11:41	12898	113050	8.97	714	317.0	77.00	8.88	0	7.78	141
01/28/98	11:50	12898	113957	9.2	714	319.0	77.30	8.87	0	7.79	137
01/28/98	11:57	12898	114747	9.41	714	321.0	77.40	8.84	0	7.83	137
01/28/98	12:01	12898	115149	9.52	714	321.0	77.60	8.84	0	7.79	136

avg TDS

AVERAGE

9.28	714	319.5	77.33	8.86	0	7.80	138	#DIV/0!
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Observations:	
Flow	2.33 cfs
Habitat Score	136
Sky	Clear
Wind	Calm
Direction	
Air Temp	47.9F C

Comments:
Station largely undisturbed despite recent activity by livestock. Counted a mixed herd of 20 just upstream. Calving season underway.
Sampled riffle #4 from top. A complex riffle of cobbles and gravel on gravel.

Samples Taken	Number
Nutrients	1
TON/Turbidity	1
Metals	1
Bactl	0
Solids	0
Plankton	0
TOC	0
BMI	1
CPQM	0
Organics	0
Crypto-Giardia	0

Water Chemistry Profile

Rapid Bioassessment Protocol

Constituents	HACH Method	Results	Habitat Assessment				Benthic Macroinvertebrates				
			Ref. Sta	Score	% Comp	Rating	Metric	Ref. Sta	Study/Site	% Comp	Rating
NH4-N (mg/l)	380		CWD3a	143	95.10%	Good	MFBI				
NO2-N (mg/l)	371		LCC2	113	120.35%	Excellent	TR				
NO3-N (mg/l)	355						PER CONT				
PO4 P (mg/l)	490						EPT				
Turbidity (NTU)	2100P		Ideal	155	87.74%	Good	% EPT				
Mn (mg/l)	290						EPT/CHIR				
Fe (Ferrous, mg/l)	255						SCFL				
Cu (mg/l)	135						HBI				
Al (mg/l)	10						CLI				
Analysis Date:	01-Jan-98	Analysis Date:	01-Jan-98	Analysis Date:	01-Jan-98	Analysis Date:	01-Jan-98				
Analyst:	DWG	Analyst:	DWG	Analyst:	DWG	Analyst:	DWG				

Station LAP4A 028

Stream Discharge WorkSheet

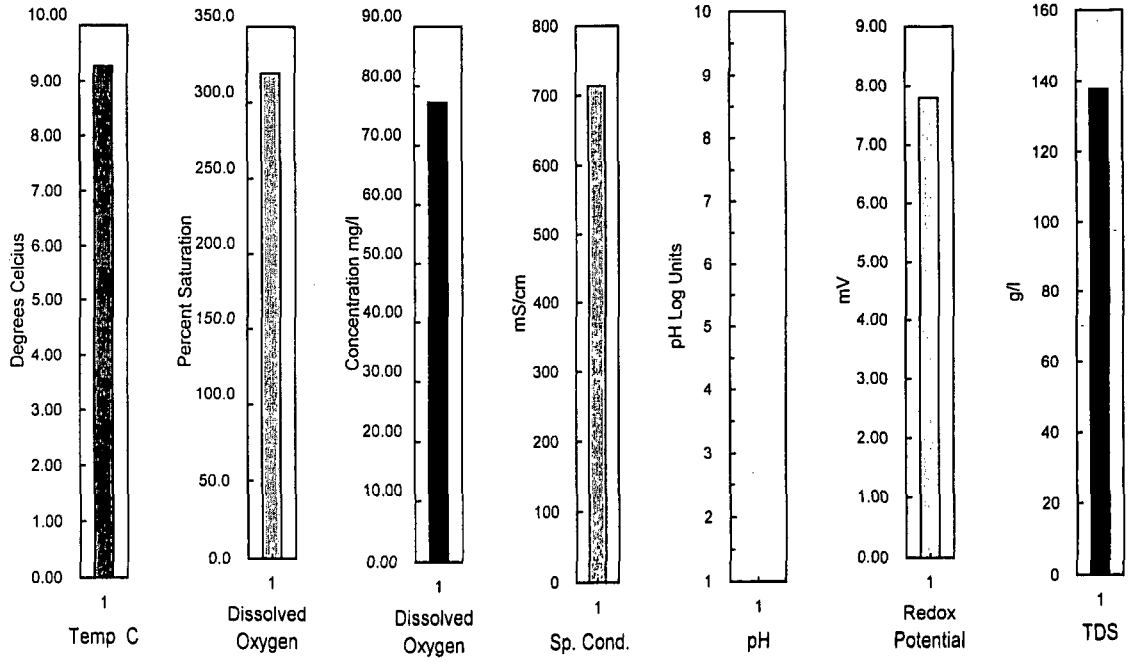
Station	LAP4		
Width	1.10	Flow Q =	0.15
Width/7	0.16		
Depth 1	0.12	Velocity 1	0.76
Depth 2	0.14	Velocity 2	0.54
Depth 3	0.20	Velocity 3	0.89
Mid Depth	0.32	Mid Vel.	0.97
Depth 5	0.22	Velocity 5	0.76
Depth 6	0.12	Velocity 6	0.54
Depth 7	0.10	Velocity 7	0.44

file name cap 4-282

Stream Discharge WorkSheet

Station	LAP4A		
Width	9.00	Flow Q =	2.33
Width/7	1.29		
Depth 1	0.30	Velocity 1	0.19
Depth 2	0.28	Velocity 2	0.58
Depth 3	0.28	Velocity 3	1.35
Mid Depth	0.56	Mid Vel.	0.88
Depth 5	0.36	Velocity 5	1.32
Depth 6	0.30	Velocity 6	0.61
Depth 7	0.30	Velocity 7	0.22

Lower San Diego River Watershed SDR10 October 10, 1997



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