

# NEW RIVER WATER QUALITY DATA

B



**NEW RIVER WATER QUALITY DATA**

Figure 215 - Trend Monitoring for Bacteria at International Boundary

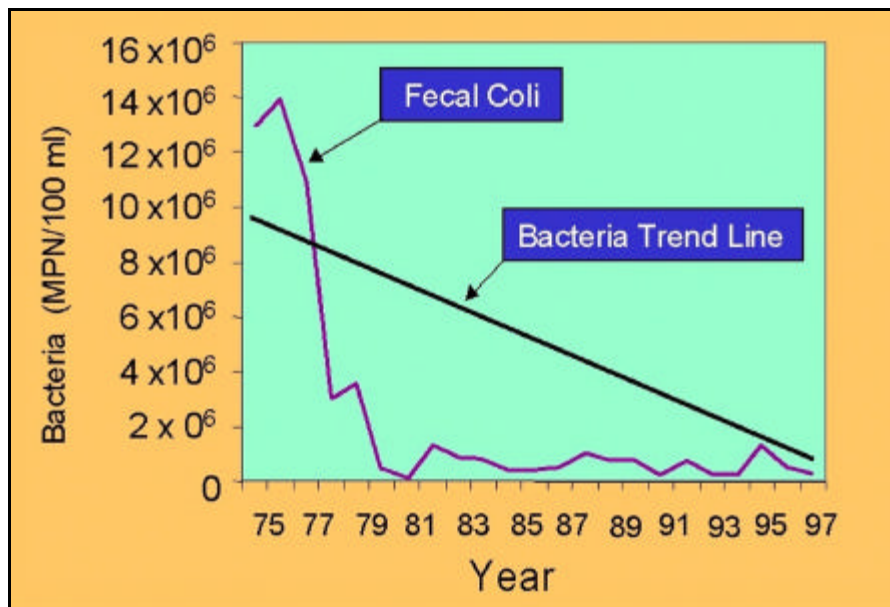
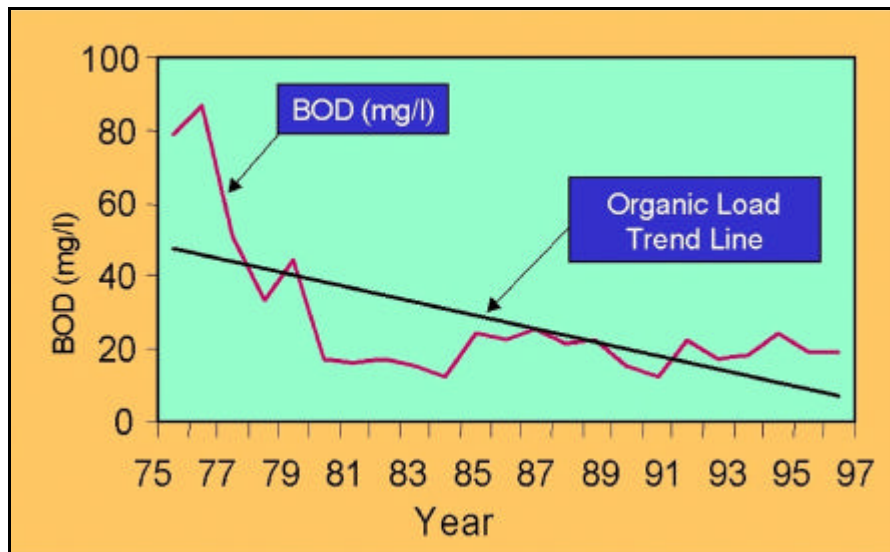


Figure 216 - Trend Monitoring for BOD at International Boundary





**NEW RIVER WATER QUALITY DATA**

California Regional Water Quality Control Board, Colorado River Basin Region  
New River at International Boundary Water Analyses (Calexico USGS Station)

Table No. B-1: Conventional Pollutants, Phenol, Cyanide Analyses									
Date Sampled: 3/30--3/31/98		Sampled By: CRWQCB (R7)				Lab: California Department of Health Services			
Constituent <sup>1</sup>	Storet Code	US EPA Method	Reporting Limits	Results <sup>2</sup> (8-hr Comp.)	Results <sup>3</sup> (24-hr Comp.)	Min. <sup>4</sup>	Ave. <sup>4</sup>	Max. <sup>4</sup>	Units
MBAS	38260	425.1	0.025	0.10	0.07	0.03	1.04	3.180	mg/l
Total Phosphate as P	665	365.2	0.01	1.36	1.53	1.10	1.85	2.93	mg/l
Phenol	32730	420.1	0.002	ND	ND	ND	0.01	0.02	mg/l
Cyanide	720	335.2	0.01	0.01	0.02	ND	0.01	0.02	mg/l
Ammonia - Nitrogen (NH <sub>3</sub> -N)	610	350.2	0.05	4.5	4.8	3.80	4.92	6.50	mg/l
Nitrate - Nitrogen (NO <sub>3</sub> -N)	610	353.2	0.2	0.2	0.4	ND	0.37	0.70	mg/l
Nitrite - Nitrogen (NO <sub>2</sub> -N)	610	353.2	0.03	0.1	0.1	ND	0.10	0.10	mg/l
Hardness as (CaCO <sub>3</sub> )	900	130.2	1	820	770	645	802	895	mg/l
Total Alkalinity as (CaCO <sub>3</sub> )	410	310.1	1	263	258	244	270	296	mg/l
Total Filter. Residue (TDS)	70300	160.1	10	2540	2400	1970	2601	3070	mg/l
Total Suspended Solids	530	160.2	10	51	47	10	70	206	mg/l
Turbidity	82079	180.1	0.1	9.2	11.5	6	15	27	NTU
BOD <sub>5</sub> @ 20°C	310	410.4	2	16	23	9	20	31	mg/l
COD	340	405.1	5	29	26	26	39	61	mg/l

Table No. B-2: Trace metal Analyses										
Date Sampled: 3/30--3/31/98		Sampled By: CRWQCB (R7)				Lab: California Department of Health Services				
Constituent <sup>1</sup>	Storet Code	Method	Reporting Limits		Results <sup>2</sup> (8-hr Comp.)	Results <sup>3</sup> (24-hr Comp.)	Min. <sup>2</sup>	Ave. <sup>2</sup>	Max. <sup>2</sup>	Units
			Graphite	Flame						
As-Arsenic	1002	A.A.	2	-	4	4	4	7	10	µg/l
Cd-Cadmium	1027	A.A.	1	50	ND	ND	ND	NA	NA	µg/l
Cr-Chromium	1034	A.A.	10	100	ND	ND	ND	NA	NA	µg/l
Cu-Copper	1042	A.A.	10	50	ND	ND	ND	NA	13	µg/l
Pb-Lead	1051	A.A.	10	200	ND	ND	ND	NA	14	µg/l
Se-Selenium	1147	A.A.	5	-	ND	ND	ND	NA	NA	µg/l
Zn-Zinc	1092	EPA-212.3	-	50	ND	ND	ND	NA	127	µg/l
Hg-Mercury	71900	EPA-245.1	1	-	ND	ND	ND	NA	NA	µg/l

<sup>1</sup> Composite of eight grab samples collected @ 60 minute intervals.

ND = Not Detected

NA = Not Applicable

<sup>2</sup> Results are from the 8-hr composite sample collected on 3/30/98 from 0700-1400.

<sup>3</sup> Results are from the 24-hr composite sample collected on 3/30-3/31/98 from 0700-0600, and are not included in any calculations.

<sup>4</sup> Ave, max, & min values for the past 12 months

California Regional Water Quality Control Board, Colorado River Basin Region  
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Table No. B-3: Turbidity Analyses								
Date Sampled: 3/30--3/31/98			Sampled By: CRWQCB (R7)			Lab: Department of Health Services		
Turbidity <sup>1</sup>	Storet Code	US EPA Method	Reporting Limits	Results	Min. <sup>2</sup>	Ave. <sup>2</sup>	Max. <sup>2</sup>	Units
700	82079	180.1	0.1	9	2	12	29	NTU
800	82079	180.1	0.1	9	2	13	33	NTU
900	82079	180.1	0.1	10	2	13	38	NTU
1000	82079	180.1	0.1	10	2	21	114	NTU
1100	82079	180.1	0.1	13	2	12	25	NTU
1200	82079	180.1	0.1	10	4	13	20	NTU
1300	82079	180.1	0.1	14	2	12	21	NTU
1400	82079	180.1	0.1	11	2	12	24	NTU

Table No. B-4: Bacterial Analyses						
Date Sampled: 3/30--3/31/98		Sampled By: CRWQCB (R7)			Lab: CRWQCB (R7), ATS	
Fecal Coliform <sup>1,3</sup>	Storet Code	Results	Min. <sup>2</sup>	Median <sup>2</sup>	Max. <sup>2</sup>	Units
1100	316315	20,000	20000	150000	300000	MPN/100ml
1200	316315	40,000	40,000	135,000	300,000	MPN/100ml
1300	316315	70,000	20,000	130,000	500,000	MPN/100ml
1400	316315	20,000	20,000	120,000	500,000	MPN/100ml
0300	316315	70,000	70,000	270,000	300,000	MPN/100ml
0400	316315	70,000	70,000	170,000	3,000,000	MPN/100ml
0500	316315	700,000	80,000	270,000	700,000	MPN/100ml
0600	316315	40,000	40,000	130,000	800,000	MPN/100ml

<sup>1</sup> Grab sample taken at the indicated time

<sup>2</sup> Ave, median, max, & min values for the past 12 months

<sup>3</sup> Analyzed by the Multiple Tube Fermentation Method

California Regional Water Quality Control Board, Colorado River Basin Region  
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Table No. B-5: Volatile Organic Constituent Analyses											
Date Sampled: 3/30--3/31/98			Sampled By: CRWQCB (R7)					Lab: California Department of Health Services			
Analyte <sup>1</sup>	Storet Code	3/30/98 0900 <sup>2</sup>	3/30/98 1200 <sup>2</sup>	3/30/98 1500 <sup>2</sup>	3/30/98 1800 <sup>2</sup>	3/30/98 2100 <sup>2</sup>	3/31/98 0000 <sup>2</sup>	3/31/98 0300 <sup>2</sup>	3/31/98 0600 <sup>2</sup>	Detection Limits	Units
Benzene	34030	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromobenzene	81555	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromochloromethane	A-012	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromodichloromethane	32101	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromoform	32104	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Bromomethane (Methyl Bromide)	34413	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
n-Butylbenzene	A-010	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
sec-Butylbenzene	77350	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
tert-Butylbenzene	77353	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Carbon Tetrachloride	32102	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Chlorobenzene (Monochlorobenzene)	34301	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Chloroethane	34311	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Chloroform	32106	ND	ND	ND	0.56	ND	0.64	ND	ND	0.5	µg/l
Chloromethane (Methyl Chloride)	34418	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
o-Chlorotoluene (2-Chlorotolulene)	A-008	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
p-Chlorotoluene (4-Chlorotolulene)	A-009	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Dibromochloromethane	32105	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Dibromomethane	77596	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichlorobenzene (o-DCB)	34536	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,3-Dichlorobenzene (m-DCB)	34566	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,4-Dichlorobenzene (p-DCB)	34571	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Dichlorodifluoromethane (Freon 12)	34668	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l

<sup>1</sup> See Footnotes in B-8

California Regional Water Quality Control Board, Colorado River Basin Region  
New River at International Boundary Water Analyses (Calexico USGS Station)

Table No. B-5: Volatile Organic Constituent Analyses

Date Sampled: 3/30--3/31/98											
Sampled By: CRWQCB (R7)											
Lab: California Department of Health Services											
Analyte <sup>1</sup>	Storet Code	3/30/98 0900 <sup>2</sup>	3/30/98 1200 <sup>2</sup>	3/30/98 1500 <sup>2</sup>	3/30/98 1800 <sup>2</sup>	3/30/98 2100 <sup>2</sup>	3/31/98 0000 <sup>2</sup>	3/31/98 0300 <sup>2</sup>	3/31/98 0600 <sup>2</sup>	Detection Limits	Units
1,1-Dichloroethane (1,1-DCA)	34496	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichloroethane (1,2-DCA)	34531	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1-Dichloroethylene (1,1-DCE)	34501	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
cis-1,2-Dichloroethylene	77093	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
trans-1,2-Dichloroethylene	34546	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichloropropane	34541	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,3-Dichloropropane	77173	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2-Dichloropropane	77170	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1-Dichloropropylene	77168	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
cis- & trans-1,3-Dichloropropylene	34561	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Ethyl benzene	34371	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Ethylene dibromide (EDB)	77651	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Hexachlorobutadiene	34391	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Isopropylbenzene (Cumene 77356)	77223	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
p-Isopropyltoluene (p-Cymene)	A-011	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Methylene chloride (Dichloromethane)	34423	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Methyl Ethyl Ketone	81595	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Methyl Isobutyl Ketone	81596	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Napthalene	34696	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
n-Propylbenzene	77224	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Styrene	77128	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,1,2-Tetrachloroethane	77562	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l

<sup>1</sup> See Footnotes in B-8



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Table No. B-5: Volatile Organic Constituent Analyses

Date Sampled: 3/30--3/31/98											
Sampled By: CRWQCB (R7)											
Lab: California Department of Health Services											
Analyte <sup>1</sup>	Storet Code	3/30/98 0900 <sup>2</sup>	3/30/98 1200 <sup>2</sup>	3/30/98 1500 <sup>2</sup>	3/30/98 1800 <sup>2</sup>	3/30/98 2100 <sup>2</sup>	3/31/98 0000 <sup>2</sup>	3/31/98 0300 <sup>2</sup>	3/31/98 0600 <sup>2</sup>	Detection Limits	Units
1,1,2,2-Tetrachloroethane	34516	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Tetrachloroethylene (PCE)	34475	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Toluene	34010	0.74	0.8	1.2	1.6	1.2	0.89	2.3	0.62	0.5	µg/l
1,2,3-Trichlorobenzene	77613	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2,4-Trichlorobenzene	34551	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Trichloroethylene (TCE)	39180	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2,3-Trichloropropane	77443	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Trichlorofluoromethane (Freon 11)	34488	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,2,4-Trimethylbenzene	77222	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,3,5-Trimethylbenzene	77226	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
1,1,2-Trichloro-trifluoroethane (Freon 113)	81611	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
Vinyl chloride (VC)	39175	ND	ND	ND	ND	ND	ND	ND	ND	0.5	µg/l
m,p-Xylenes	A-014	ND	ND	ND	0.68	0.54	ND	0.93	ND	0.5	µg/l
o-Xylene	77135	ND	ND	ND	ND	ND	ND	0.53	ND	0.5	µg/l

ND = Not Detected

<sup>1</sup> USEPA Method 524.2<sup>2</sup> Results are for each grab sample collected at the specified time/date, the first sample was collected @ 0900 on 3/30/98. The last was collected @ 0600 on 3/31/98.