

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
 AUGUST-OCTOBER 2008 WATER QUALITY DATA

DATE	TIME	TEMP	PH	DO	EC	TURBIDITY
(MM/DD/YY)	(HH:MM)	(°C) ¹		(mg/l) ²	(µmhos/cm) ³	(NTU) ⁴
8/28/08	12:47	31.02	7.74	4.02	6170	18.4
9/17/08	12:20	28.61	7.64	3.46	4975	18.6
10/29/08	11:45	22.11	7.70	6.22	5707	23.7

Field Observations:

8/28/08 12:47- Water color murky green. No Foam. No Odor. Overcast. No wind. Humid. Ambient air temperature 100 °F. Initial %D.O. 100.4. Final %D.O. 98.3.

9/17/08 12:20- Rain Yesterday. Water color murky green. No Foam. No Odor. Scattered clouds. Calm wind. Humid. Ambient air temperature 95 °F.

10/29/08 11:45- All times on this page are USA times (notebook page). Water color murky green. No Foam. No Odor. Sky clear. No wind. Ambient air temperature 86 °F. Initial %D.O. 100.4. Final %D.O. 99.8.

DATE	TIME	ANALYSIS METHOD ⁵	AVERAGE FECAL COLIFORM ⁶
(MM/DD/YY)	(HH:MM)		(MPN/100ml) ⁷
8/28/08	12:47	Multiple Tube Fermentation	≥160,000
9/17/08	12:20	Multiple Tube Fermentation	≥160,000
10/29/08	11:45	Multiple Tube Fermentation	≥160,000

¹ Water Temperature is reported in units of degrees Celsius (°C).

² Dissolved Oxygen (DO) is reported in units of milligrams per liter.

³ Electrical Conductivity (EC) is reported in units of micromhos per centimeter.

⁴ Turbidity is reported in units of nephelometer turbidity units (NTUs).

⁵ Bacterial analysis completed by ATS Laboratory in Brawley, CA.

⁶ Three samples were collected and analyzed. The analysis results were averaged.

⁷ Fecal coliform density is reported in units of Most Probable Number (MPN) per 100 milliliters.

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E.S. BABCOCK & SONS, INC. RIVERSIDE, CA			CONCENTRATION (mg/l) ⁸		
CONSTITUENT (GRAB) ⁹	METHOD	REPORTING LIMIT	AUGUST 2008	SEPTEMBER 2008	OCTOBER 2008
Total Hardness	SM3120B	3.0-6.0 ¹⁰	940	880	840
Calcium	EPA200.7	1.0-2.0	190	190	180
Magnesium	EPA200.7	1.0-2.0	110	98	96
Total Alkalinity	SM2320B	3.0	280	270	270
Hydroxide	SM2320B	3.0	ND ¹¹	ND	ND
Carbonate	SM2320B	3.0	ND	ND	ND
Bicarbonate	SM2320B	3.0	340	330	330
Sulfate	EPA300.0	2.5-5.0	970	750	870
Ammonia-Nitrogen	SM4500N	0.50-1.0	4.1	6.2	5.8
Nitrate as N	EPA300.0	0.20	0.52	ND	2.0
Nitrite as N	SM4500N	0.10	0.48	0.15	0.21
Kjeldahl Nitrogen	EPA351.2	0.40-1.0	606	7.6	8.1
Ortho Phosphate	SM4500PE	0.10-0.25	0.86	1.3	0.71
Total Phosphorus	SM4500BE	0.10-0.25	1.4	1.5	1.2
Total Suspended Solids	SM2540D	5	34	28	35
BOD	SM5210B	5-8	16	11	13
COD	SM5220D	10	85	120	92
Oil & Grease (HEM)	EPA1664A	5.0-5.2	ND	ND	ND
Phenols	EPA420.4	0.020	ND	ND	ND
Turbidity (in NTU units)	SM2130B	0.20	22	11	21
MBAS	SM5540C	0.05	0.40	0.66	0.35

⁸ The concentrations are reported in units of milligrams per liter (mg/l).

⁹ Grab water samples were collected on August 28, 2008, September 17, 2008, and October 29, 2008.

¹⁰ The reporting limit for this constituent varied in the sample analysis reports.

¹¹ Sample analysis reported constituent as non-detect.

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E.S. BABCOCK & SONS, INC.			CONCENTRATION (<i>ug/l</i>) ¹²		
CONSTITUENT (GRAB)	METHOD	REPORTING LIMIT	AUGUST 2008	SEPTEMBE 2008	OCTOBER 2008
As-Arsenic	EPA200.8	5.0	9.1	7.5	6.4
Cd-Cadmium	EPA200.8	2.0	ND	ND	ND
Cr-Chromium	EPA200.8	20	ND	ND	ND
Cu-Copper	EPA200.8	10	16	14	15
Pb-Lead	EPA200.8	10	ND	ND	ND
Se-Selenium	EPA200.8	5	19	6.8	8.1
Zn-Zinc	EPA200.8	10	17	26	17
Hg-Mercury	EPA200.8	0.50	ND	ND	ND

¹² The concentrations are reported in units of micrograms per liter (*ug/l*).