

**TABLE 6 - ADDITIONAL PHYSICAL, MINERAL, AND METAL CHARACTERISTICS
- 2004 BY WATER TREATMENT PLANT**

ANALYTE	Alvarado Treatment Plant			Miramar Treatment Plant			Otay Treatment Plant			Units
	LOW	AVG	HIGH	LOW	AVG	HIGH	LOW	AVG	HIGH	
Hardness - Total as CaCo3	217	232	271	220	231	257	211	226	271	mg/L
Hardness - Total in Grains/Gal	12.6	13.5	15.8	12.8	13.4	14.9	12.3	13.1	15.8	gr/Gal
Calcium	49.2	65.3	77.2	51.6	67.2	85.6	48.8	65.0	80.4	mg/L
Magnesium	6.0	16.4	24.0	4.5	14.9	24.0	8.8	15.2	24.4	mg/L
Sodium	65.7	78.3	89.9	67.2	76.6	88.2	62.1	80.9	93.2	mg/L
Potassium	2.76	4.57	6.08	3.52	4.08	4.67	2.58	4.38	5.86	mg/L
Alkalinity - Total as CaCO3	104	116	133	99	107	114	97	119	148	mg/L
Carbonate (CO3)	0	1	8.5	0	0	0	0	0.4	5.1	mg/L
Bicarbonate (HCO3)	114	140	162	120	129	139	117	145	180	mg/L
Sulfate	152	170	235	151	172	217	129	157	235	mg/L
Chloride	81.9	89.5	98.7	78.5	87.2	94.4	82.2	93.7	106	mg/L
Nitrate	< 2	< 2	2.3	< 2	< 2	2.3	< 2	< 2	2.4	mg/L
Fluoride	0.21	0.25	0.32	0.21	0.25	0.37	0.23	0.30	0.37	mg/L
pH - laboratory	8	8.3	8.5	7.9	8.1	8.3	8.1	8.3	8.8	pH
Specific Conductance	846	906	1120	822	907	993	790	922	1010	uS/cm
Total Dissolved Solids (TDS)	481	522	596	460	515	577	464	517	666	mg/L
Color	< 1	4	7	< 1	3	5	< 1	4	6	COLOR
Aluminum	< 10	< 10	18	< 10	< 10	21	< 10	< 10	13	ug/L
Antimony	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ug/L
Arsenic	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	ug/L
Barium	61	77	102	67	82	97	61	69	79	ug/L
Beryllium	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ug/L
Cadmium	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ug/L
Chromium	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ug/L
Copper	< 5	< 5	6.8	6	9.5	15	< 5	< 5	< 5	ug/L
Iron	< 50	< 50	77	< 50	< 50	131	< 50	< 50	170	ug/L
Lead	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	ug/L
Manganese	< 2	< 2	< 2	< 2	< 2	3.1	< 2	< 2	4.2	ug/L
Mercury	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ug/L
Nickel	2.4	2.9	3.4	3.2	2.4	3.5	2.2	2.6	3.2	ug/L
Selenium	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	ug/L
Silver	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	ug/L
Vanadium	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	ug/L
Zinc	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 8	ug/L
Langelier Index	0.26	0.74	1	0.31	0.52	1	0.42	0.74	1.1	
Aggressiveness Index	12	12.5	12.8	12.1	12.3	12.9	12.2	12.5	12.9	
Silica	7.8	9.1	10.4	7.7	8.8	10.4	6.9	8.5	9.9	mg/L
Ortho Phosphate	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	mg/L
Boron	117	118	118	94	112	130	116	119	122	ug/L
Nitrite as Nitrogen	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/L
Cyanide	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	mg/L
Bromide	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	mg/L
Perchlorate	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	ug/L

Abbreviations

mg/L: Milligrams per liter or Parts per million (ppm)
ug/L: Micrograms per liter or Parts per billion (ppb)

uS/cm: Micro siemens per centimeter
COLOR: Natural color units