

Anaheim Public Utilities, in compliance with state and federal regulations, monitors for more than 100 possible substances in its drinking water. While the vast majority of regulated substances were not found in Anaheim's water, per regulation this report only provides information on the substances that were detected. This report covers the 12-month period from January 1, 2006 through December 31, 2006.

PRIMARY STANDARDS

Inorganic Substance	Units	State MCL	PHG (MCLG)	Anaheim Wells Range	Anaheim Wells Avg	Anaheim Lenain Treatment Plant Range	Anaheim Lenain Treatment Plant Avg	MWD Diemer Treatment Plant Range	MWD Diemer Treatment Plant Avg	Typical Sources of Contaminants
Aluminum	ppb	1000	600	ND	ND	110-350	190	ND-58	ND	Residue from water treatment process; erosion of natural deposits Erosion of natural deposits; glass and electronics production wastes Discharge from oil and metal refineries; erosion of natural deposits Erosion of natural deposits; water additive that promotes strong teeth Runoff and leaching from fertilizer use; sewage; erosion of natural deposits Internal corrosion of household pipes; erosion of natural deposits
<i>Aluminum has a secondary MCL of 200 ppb</i>										
Arsenic	ppb	10	0.004	ND-3.5	ND	2.1	2.1	ND	ND	
Barium	ppb	1000	2000	ND	ND	140	140	ND	ND	
Fluoride	ppm	2	1	0.32-0.45	0.39	0.32	0.32	0.12-0.18	0.15	
Nitrate (as nitrogen)	ppm	10	10	ND-5.3	3.5	ND	ND	ND-0.68	0.45	
Copper	ppm	AL=1.3	0.17	90th percentile = 0.19 None of the 51 sites surveyed were above the action level						
<i>In lieu of MCLs for copper, the State requires that 90 percent of water samples obtained from customers' taps contain less than 1.3 ppm of copper. Anaheim's most recent surveys indicated that 90 percent of Anaheim's samples contained less than 0.19 ppm of copper, meaning Anaheim's water is significantly below the State's action levels. Copper has a secondary MCL of 1 ppm. Copper sampling was conducted in 2006.</i>										

Clarity	Units	State MCL	PHG (MCLG)	Anaheim Wells	Anaheim Lenain Treatment Plant	MWD Diemer Treatment Plant	Typical Sources of Contaminants
1) Highest single turbidity measurement	NTU	TT=5	NS	NA	0.30	0.08	Soil runoff
2) Percentage of samples less than 0.3 NTU	NTU	TT=95%	NS	NA	99.9%	100%	Soil runoff

Radionuclides	Units	State MCL	PHG (MCLG)	Anaheim Wells Range	Anaheim Wells Avg	Anaheim Lenain Treatment Plant Range	Anaheim Lenain Treatment Plant Avg	MWD Diemer Treatment Plant Range	MWD Diemer Treatment Plant Avg	Typical Sources of Contaminants
Gross Alpha particle activity	pCi/L	15	NS	4.2-12.7	8.3	4.4	4.4	ND-7.2	3.6	Erosion of natural deposits
Gross Beta particle activity	pCi/L	50	NS	4.2-7.3	5.8	ND	ND	ND-4.7	ND	Erosion of natural deposits
Combined Radium	pCi/L	5	NS	ND-1.7	ND	ND	ND	ND	ND	Erosion of natural deposits
Uranium	pCi/L	20	0.5	4.9-12.5	8.6	ND-4.5	4.0	ND	ND	Erosion of natural deposits
Radon 222	pCi/L	NS	NS	322-459	385	NA	NA	ND	ND	Erosion of natural deposits
<i>Radionuclide monitoring was conducted from 2002 through 2006</i>										

Disinfection By-Products and Disinfectant Residual	Units	State MCL [MRDL]	PHG (MCLG) [MRDLG]	Anaheim Distribution System Highest Running Annual Avg	Typical Sources of Contaminants
Total Trihalomethanes (TTHMs)*	ppb	80	NS	ND-80 32	By-products of drinking water chlorination By-products of drinking water chlorination Drinking water disinfectant added for treatment
Haloacetic Acids (HAA5)*	ppb	60	NS	ND-24 11	
Total Chlorine Residual**	ppm	[4]	[4]	ND-2.8 1.0	
<i>* Compliance is based on a calculated running annual average of 12 distribution system samples taken quarterly. ** Compliance is based on a calculated running annual average of 49 distribution system samples taken weekly.</i>					

SECONDARY STANDARDS

	Units	State MCL	PHG (MCLG)	Anaheim Wells Range	Anaheim Wells Avg	Anaheim Lenain Treatment Plant Range	Anaheim Lenain Treatment Plant Avg	MWD Diemer Treatment Plant Range	MWD Diemer Treatment Plant Avg	Typical Sources of Contaminants
Chloride	ppm	500	NS	36-114	87	100	100	47-97	66	Runoff/leaching from natural deposits; seawater influence
Color	units	15	NS	ND-1	ND	ND	ND	1-2	2	Naturally occurring organic materials
Odor Threshold	units	3	NS	ND	ND	1	1	2*	2*	Naturally occurring organic materials
<i>* MWD has developed a flavor profile analysis method that can more accurately detect odor occurrence. For more information, contact MWD at (213) 217-6058.</i>										
Specific Conductance	umho/cm	1600	NS	590-1100	930	1100	1100	536-810	652	Substances that form ions when in water; seawater influence
Sulfate	ppm	500	NS	75-174	137	290	290	106-159	132	Runoff/leaching from natural deposits; industrial waste
Total Dissolved Solids	ppm	1000	NS	350-644	568	690	690	307-458	378	Runoff/leaching from natural deposits
Zinc	ppm	5	NS	ND-0.14	ND	ND	ND	ND	ND	Runoff/leaching from natural deposits

ADDITIONAL PARAMETERS

	Units	State MCL	PHG (MCLG)	Anaheim Wells Range	Anaheim Wells Avg	Anaheim Lenain Treatment Plant Range	Anaheim Lenain Treatment Plant Avg	MWD Diemer Treatment Plant Range	MWD Diemer Treatment Plant Avg	Typical Sources of Contaminants
Calcium	ppm	NS	NS	61-113	94	76	76	31-43	37	Erosion of natural deposits
Magnesium	ppm	NS	NS	12-23	18	32	32	13-20	17	Erosion of natural deposits
Potassium	ppm	NS	NS	2.9-10.6	4.6	4.9	4.9	2.8-3.9	3.2	Erosion of natural deposits
pH	pH units	NS	NS	7.0-8.3	8.1	8.0	8.0	8.1-8.3	8.2	Acidic or basic contaminants
Sodium	ppm	NS	NS	36-101	71	110	110	52-85	65	Erosion of natural deposits
Total Alkalinity (as CaCO3)	ppm	NS	NS	165-232	195	130	130	71-84	77	Erosion of natural deposits
Total Hardness (as CaCO3)	ppm	NS	NS	201-376	311	320	320	134-185	161	Erosion of natural deposits
Total Hardness (as CaCO3)	grains/gal.	NS	NS	12-22	18	19	19	7.8-11	9.4	Erosion of natural deposits

UNREGULATED CHEMICAL MONITORING

	Units	State MCL	PHG (MCLG)	Anaheim Wells Range	Anaheim Wells Avg	Anaheim Lenain Treatment Plant Range	Anaheim Lenain Treatment Plant Avg	MWD Diemer Treatment Plant Range	MWD Diemer Treatment Plant Avg	Typical Sources of Contaminants
Boron	ppb	NL=1000	NS	ND-280	160	110-120	115	ND-160	130	Erosion of natural deposits and industrial waste
Chromium-6	ppb	NS	NS	ND-2.9	ND	ND	ND	ND	ND	Discharge from steel and pulp mills and chrome plating; pulp mills and chrome plating; erosion of natural deposits
Perchlorate	ppb	NL=6	6	ND-5.5	ND	ND-5	ND	ND	ND	By-products of munitions, fireworks, and rocket fuel manufacturing
Vanadium	ppb	NL=50	NS	ND-8.0	4.1	ND-3.4	ND	ND-3.5	ND	Industrial waste
<i>Unregulated chemical monitoring was conducted from 2003 through 2006</i>										