

2008 Annual Water Quality Report

	Unit Measurement	MCL	PHG (MCLG)	Ground Water Range	Ground Water Average	Surface Water Average
Microbiological Contaminants						
1. Total Coliform Bacteria	% of tests positive	5%	(zero)	N/D	N/D	<.01%
3. Turbidity	NTU	TT	N/S	.19-.74	0.39	0.03
Radioactive Contaminants (2006)						
4. Gross Beta Activity DLR=3.00	pCi/L	50	0	N/D	N/D	N/D
5. Strontium 90	pCi/L	8	0.35	N/D	N/D	N/D
6. Tritium	pCi/L	20,000	400	N/D	N/D	N/D
7. Gross Alpha Activity	pCi/L	15	0	<3.00	N/D	N/D
8. Radium 226 & 228 (total)	pCi/L	5	0	N/D	N/D	N/D
9. Uranium	pCi/L	20	0.43	N/D	N/D	N/D
Inorganic Contaminants						
10. Aluminum	ppm	1	0.6	N/D	N/D	0.074
11. Antimony	ppb	6	20	N/D	N/D	N/D
12. Arsenic	ppb	10	0.004	N/D-2.5	0.63	N/D
13. Asbestos	MFL	7	7	N/D	N/D	N/D
14. Barium	ppm	1	2	N/D-0.13	0.05	N/D
15. Beryllium	ppb	4	1	N/D	N/D	N/D
16. Cadmium	ppb	5	0.04	N/D	N/D	N/D
17. Chromium	ppb	50	100	N/D	N/D	N/D
18. Cyanide	ppb	150	150	N/D	N/D	N/D
19. Fluoride	ppm	2	1	N/D-0.14	0.09	N/D
20. Lead	ppb	15	2	N/D	N/D	N/D
21. Mercury(inorganic)	ppb	2	1.2	N/D	N/D	N/D
22. Nickel	ppb	100	12	N/D	N/D	N/D
23. Nitrate(as nitrite, NO3)	ppm	45	45	N/D-18	9	N/D
24. Nitrite(as nitrogen, N)	ppm	1	1	N/D	N/D	N/D
25. Perchlorate	ppb	6	6	N/D	N/D	N/D
26. Selenium	ppb	50	50	N/D	N/D	N/D
27. Thallium	ppb	2	0.1	N/D	N/D	N/D
Volatile Organic Contaminants						
28. Benzene	ppb	1	0.15	N/D	N/D	N/D
29. Carbon tetrachloride	ppt	500	100	N/D	N/D	N/D
30. 1,2-Dichlorobenzene[o-DCB]	ppb	600	600	N/D	N/D	N/D
31. 1,4-Dichlorobenzene[p-DCB]	ppb	5	6	N/D	N/D	N/D
32. 1,1-Dichloroethane	ppb	5	3	N/D	N/D	N/D
33. 1,2-Dichloroethane	ppt	500	400	N/D	N/D	N/D
34. 1,1-Dichloroethylene	ppb	6	10	N/D	N/D	N/D
35. cis-1,2-Dichloroethylene	ppb	6	100	N/D	N/D	N/D
36. trans-1,2-Dichloroethylene	ppb	10	60	N/D	N/D	N/D
37. Dichloromethane	ppb	5	4	N/D	N/D	N/D
38. 1,2-Dichloropropane	ppb	5	0.5	N/D	N/D	N/D
39. 1,3-Dichloropropane	ppt	500	200	N/D	N/D	N/D
40. Ethylbenzene	ppb	300	300	N/D	N/D	N/D
41. Methyl-tert-butyl ether	ppb	13	13	N/D	N/D	N/D
42. Monochlorobenzene	ppb	70	200	N/D	N/D	N/D
43. Styrene	ppb	100	100	N/D	N/D	N/D
44. 1,1,2,2-Tetrachlorethane	ppb	1	0.1	N/D	N/D	N/D
45. Tetrachloroethylene[PCE]	ppb	5	0.06	N/D-2.7	1.15	N/D
46. 1,2,4-Trichlorobenzene	ppb	5	5	N/D	N/D	N/D
47. 1,1,1-Trichloroethane	ppb	200	1000	N/D	N/D	N/D
48. 1,1,2-Trichloroethane	ppb	5	0.3	N/D	N/D	N/D
49. Trichloroethylene[TCE]	ppb	5	0.8	N/D	N/D	N/D
50. Toluene	ppb	150	150	N/D	N/D	N/D
51. Trichlorofluoromethane	ppb	150	700	N/D	N/D	N/D
52. 1,1,2-Trichloro1,2,2-trifluoroethane	ppb	1.2	4	N/D	N/D	N/D
53. Vinyl Chloride	ppt	500	50	N/D	N/D	N/D
54. Xylenes	ppm	1.75	1.8	N/D	N/D	N/D
Disinfection Byproducts						
55. TTHM [Total Trihalomethanes]	ppb	80	N/S	N/D	N/D	5.5
56. Haloacetic Acids	ppb	60	N/S	N/D	N/D	2.7

Secondary Drinking Water Standards

57. Aluminum	ppb	200	N/S	N/D	N/D	0.074
58. Color	units	15 units	N/S	N/D	N/D	15
59. Copper	ppm	1	N/S	N/D	N/D	N/D
60. Corrosivity	---	Non-corrosive	N/S	N/D	N/D	N/D
61. Foaming Agents [MBAS]	ppb	500	N/S	N/D	N/D	N/D
62. Iron	ppb	300	N/S	N/D-120	30	100
63. Manganese	ppb	50	N/S	N/D-20	8.3	17
64. Methyl-tert-butyl ether [MTBE]	ppb	5	N/S	N/D	N/D	N/D
65. Odor-Threshold	units	3 units	N/S	N/D	N/D	N/D
66. Silver	ppb	100	N/S	N/D	N/D	N/D
67. Thiobencarb	ppb	1	N/S	N/D	N/D	N/D
68. Turbidity	units	5 units	N/S	.19-.74	0.39	0.03
69. Zinc	ppm	5	N/S	N/D	N/D	N/D
70. Total Dissolved Solids	ppm	1000	N/S	120-240	183	53
71. Specific Conductance	micromhos	1600	N/S	140-350	240	70
72. Chloride	ppm	500	N/S	4.0-20	9	2.6
73. Sulfate	ppm	500	N/S	5.5-12	9	2.9

Unregulated Contaminants and Constituents of Interest

74. 1, 4 Dioxane	ppb	N/S	N/S	N/D	N/D	N/D
75. N-Nitrosodimethylamin (NDMA)	ppb	N/S	N/S	N/D	N/D	N/D
76. Sodium	ppm	N/S	N/S	7.2-15	10.7	3
77. Calcium	ppm	N/S	N/S	11.0-32	21	6.7
78. Hardness	ppm	N/S	N/S	55-150	105	26
79. Magnesium	ppm	N/S	N/S	6.8-17	12.5	2.3

Lead and Copper		AL	PHG	90th Percentile	Number of sites exceeding AL
80. Lead	ppb	15	2	N/D	Zero
81. Copper	ppm	1.3	0.17	0.14	Zero

LEGEND:

N/D = Analyzed; Non Detected

NTU = Nephelometric Turbidity Unit

PPM = Parts Per Million

MCL = Maximum Contaminant Level

MCLG = Maximum Contaminant Level Goal

PCi/l = Picocuries per Liter

PHG = Public Health Goal

N/A = Not Applicable

N/S = No Standard

TT = Treatment Technique

AL = Alert Level

***Total Trihalomethanes =**

Sum of results for Chloroform, Bromoform, Dibromochloromethane and Bromochloromethane

Water quality information is based on data collected in 2008 unless otherwise indicated

**For additional water quality data, contact:
Carmichael Water District at 483-2452**