2009 CITY OF SIERRA MADRE GROUNDWATER QUALITY [1] PHG or Average Range of MCL **Most Recent** Chemical MCL **Typical Source of Contaminant** (MCLG) **Amount Detections** Violations? Testing Primary Drinking Water Standards--Health-Related Standards Organic Chemicals Industrial discharge Tetrachloroethylene (ppb) 5 0.06 < 0.5 ND - 1.1 No Monthly Trichloroethylene (ppb) 5 1.7 8.0 ND - 2.6 No Monthly Industrial discharge Inorganic Chemicals 10 ND - 2.0 Arsenic (ppb) 0.004 <2 Nο Erosion of natural deposits Nitrate (ppm as NO₃)[2] 45 45 13 7.7 - 26No Monthly Fertilizers, Septic Tanks Secondary Standards[[] Chloride (ppm) 500 n/a 9 7 - 12 No 2008 Erosion of natural deposits 345 - 430 2008 Specific Conductance (µmho/cm) 1600 391 Substances that form ions in water n/a No Sulfate (ppm) 500 22 15 - 35 No 2008 Erosion of natural deposits Total Dissolved Solids (ppm) 1000 n/a 216 192 - 242 No 2008 Erosion of natural deposits Turbidity (NTU)[3] 0.2 - 0.3 5 n/a 0.2 No 2008 Erosion of natural deposits **Unregulated Chemicals Requiring Monitoring** Alkalinity as CaCO3 (ppm) Not Regulated 162 150 - 172 2008 Run off / leaching from natural deposits n/a n/a Calcium (ppm) Not Regulated 47 37 - 58 2008 Run off / leaching from natural deposits n/a n/a Hardness (ppm) Not Regulated n/a 151 119 - 175 n/a 2008 Erosion of natural deposits Not Regulated n/a 2008 Erosion of natural deposits Hardness (grains/gal) 8.8 6.9 - 10n/a Magnesium (ppm) Not Regulated n/a 9 5 - 13 n/a 2008 Run off / leaching from natural deposits pH (pH Units) Not Regulated n/a 7.5 7.4 - 7.6n/a 2008 Hydrogen ion concentration 0.7 - 2.0 Potassium (ppm) Not Regulated 2008 Run off / leaching from natural deposits n/a 1.1 n/a Sodium (ppm) Not Regulated 28 13 - 52 2008 Erosion of natural deposits n/a

2009 CITY OF SIERRA MADRE DISTRIBUTION SYSTEM WATER QUALITY

n/a

Monthly

Naturally present in the groundwater

ND - 0.5

			Highest Monthly # of	MCL	Most Recent	Typical Source of Containmant					
Bacterial Quality	MCL	MCLG	Positives	Violation ?	Sampling						
Total Coliform Bacteria	1	0	0 0		Weekly	Naturally present in the environment					
No more than one monthly sample may be positive for total coliform bacteria.											

Chemical	MCL or (MRDL)	PHG or (MRDLG)	Average Amount	Range of Detections	MCL Violations?	Most Recent Sampling Date	Typical Source of Contaminant
Haloacetic Acids (ppb)	60	n/a	<1	ND - 6.0	No	Quarterly	Byproducts of chlorine disinfection
Total Trihalomethanes (ppb)	80	n/a	6.7	ND - 17	No	Quarterly	Byproducts of chlorine disinfection
Chlorine Residual (ppm)	(4)	(4)	0.6	0.2 - 1.0	No	Weekly	Drinking water disinfectant
Color (color units)[3]	15	n/a	<1	ND - 5	No	Monthly	Naturally present in the groundwater
Fluoride (ppm)	2	1	1.2	0.9 - 1.7	No	Quarterly	Erosion of natural deposits
Odor (threshold odor number)[3]	3	n/a	1	1	No	Monthly	Naturally present in the groundwater
Turbidity (NTU) ^[3]	5	n/a	<0.1	ND - 0.8	No	Monthly	Erosion of natural deposits
At-The-Tap Lead and Copper Testing	Action Level (AL)	PHG	90th Percentile Value		Sites Exceeding AL/ Number of Sites	AL Violations?	Typical Source of Contaminant
Copper (ppm)	1.3	0.3	0.33		0/30	No	Corrosion of household plumbing
Lead (ppb)	15	0.2		11	1/30	No	Corrosion of household plumbing

Every three years, 30 residences are tested for lead and copper at-the-tap. The most recent set of samples was collected in 2008. Lead was detected in five samples, one of which exceeded the AL. An AL is the concentration of a contaminant which, if exceeded in more than 10 percent of the samples, triggers treatment or other requirements that a water system must follow. The City of Sierra Madre complies with the Lead and Copper ALs.

AL = Action Level; MCL = Maximum Contaminant Level; MCLG = Maximum Contaminant Level Goal; MRDL = Maximum Residual Disinfectant Level; MRDLG = Maximum Residual Disinfectant Level Goal; NL = Notification Level; n/a = not applicable; ND = not detected; NTU = nephelometric turbidity units; PHG = California Public Health Goal; ppb = parts-per-billion; ppm = parts-per-million; TOC = Total Organic Carbon; TT = Treatment Technique; umho/cm = micromho per centimeter; < = detected but average is less than the required reporting limit

 TT

n/a

0.2

TOC (ppm)

^[1] This table includes groundwater quality for water sampled at City of Sierra Madre's wells and tunnel.

- [2] Nitrate levels are determined in the blended water served to our customers.[3] Chemical is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).