

SURFACE WATER SOURCES

The City of Poway relies on two surface water sources: water that is imported from the San Diego County Water Authority and local rainfall captured by Lake Poway. The imported water comprises the majority of the water needs of the community, accounting for 99.5% of the raw water supply.

The raw water is received from the Northern California Aqueduct and Colorado River Systems. These sources of water are pumped to the Lester J. Berglund Water Treatment Plant and to Lake Poway for storage.

To ensure a safe drinking water supply, the raw water undergoes a series of treatment processes including: coagulation, flocculation, sedimentation, filtration, taste/odor control, corrosion control and disinfection.

These treatment processes ensure that water of the highest quality is available to all our customers.

WATER QUALITY MONITORING

The California Department of Public Health is responsible for enforcing Drinking Water Quality Regulations, as set forth by the United States Environmental Protection Agency (USEPA).

The (USEPA) regulations are composed of primary and secondary standards: Primary standards relate to the protection of public health. These standards specify limits for substances in water that may be harmful to humans if consumed in excess of those limits.

Secondary standards relate to aesthetic qualities of water such as taste, odor, or clarity. These standards specify limits for substances that may influence consumer acceptance of the water.

THE DISINFECTION PROCESS

The City of Poway employs two methods of disinfection. The first, chlorine, effectively eliminates water-borne diseases from the public water supply. The second, chloramines, a combination of chlorine and ammonia, further improves the quality of our water supply and reduces the formation of disinfection-by-products.

REQUIRED HEALTH INFORMATION

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

USEPA and Center for Disease Control guidelines on appropriate means to lessen the risk of infection by Cryptosporidium (a micro-organism which can cause gastrointestinal illness, but which is eliminated through effective treatment including filtration, sedimentation, and disinfection) and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- + Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- + Inorganic contaminants, such as salts and metals, that can be naturally-occurring or result from urban stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- + Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban storm water run-off, and residential uses.
- + Radioactive contaminants, that can be naturally-occurring or a result of oil and gas production and mining activities.
- + Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban storm water run-off, agricultural application, and septic systems.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and compounds associated with service lines and home plumbing. The City of Poway is responsible for providing high quality drinking water, but can not control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

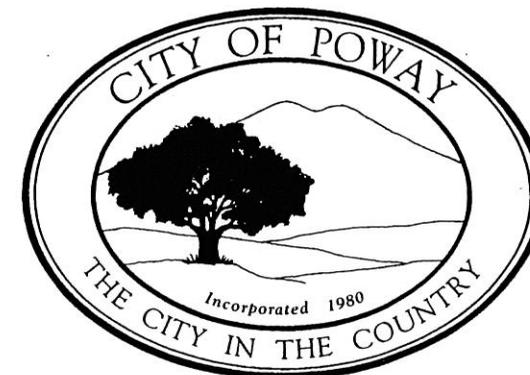
In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

ESPAÑOL: Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

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City of Poway Annual Water Quality Report - 2013



We are pleased to send you our 2013 Water Quality Report. This brochure explains how drinking water provided by the City of Poway is of the highest quality. Included is a listing of results from water-quality tests as well as an explanation of where our water comes from and tips on how to interpret the data.

At the City of Poway, we routinely monitor our water supplies for the entire range of elements that have the potential to degrade the quality of your water. If a potential problem is detected, our water treatment personnel take measures to eliminate the problem.

We do not settle for meeting health and safety standards - our goal is to exceed them in every instance. For additional information please call Kevin O'Reilly, Water Treatment Plant Supervisor, at the City of Poway Lester J. Berglund Water Treatment Plant (858) 668-4751.

CITY OF POWAY ANNUAL WATER QUALITY REPORT 2013

PARAMETER	UNITS	STATE	PHG	TREATED WATER BEFORE		TREATED WATER AFTER		LAKE POWAY WATER		IMPORTED WATER		MAJOR SOURCES OF CONTAMINATION IN DRINKING WATER
		MCL	(MCLG)	DISTRIBUTION SYSTEM		DISTRIBUTION SYSTEM		AVERAGE	RANGE	AVERAGE	RANGE	
		(MRDL)	(MRDLG)	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	AVERAGE	RANGE	
PRIMARY STANDARDS- Mandatory Health Related Standards Established by the State of California, Department of Health Services												
CLARITY												
Turbidity	NTU	0.3 (TT)	NA	Highest Reading = 0.09		< 0.1	<0.1 - 0.30	NA	NA	NA	NA	Soil runoff
	%	95 (a)	NA	% < 0.3: 100%		NA	NA	NA	NA	NA	NA	
INORGANIC CHEMICALS												
Aluminum	ppm	1	0.6	0.0740	<0.05 - 0.182	NC	NC	<0.05	<0.05	<0.05	<0.05	Residue from treatment processes
Arsenic	ppb	10	0.004	NC	NC	NC	NC	2.1	2.1	2.2	2.2	Erosion of natural deposits
Fluoride (naturally-occurring)	ppm	2.0	1	NC	NC	NC	NC	0.283	0.283	0.2	0.2 - 0.3	Erosion of natural deposits
Nitrate (as Nitrogen)	ppm	10	10	NC	NC	<0.40	<0.40 - 0.62	<0.40	<0.40	<0.4	<0.4	Runoff & leaching from fertilizer use
RADIOACTIVITY												
Gross Alpha	pCi/L	15	(0)	NC	NC	NC	NC	6.52	6.52	<3	<3 - 3	Erosion of natural deposits
Gross Beta (d)	pCi/L	50	(0)	NC	NC	NC	NC	<4.0	<4.0	<4	<4 - 6	Decay of natural deposits
Uranium	pCi/L	20	0.43	NC	NC	NC	NC	3.37	3.37	1	<1 - 2	Erosion of natural deposits
MICROBIOLOGICAL												
Total Coliform Bacteria	(b)	5.0%	(0)	0%	0%	Highest % positive = 1.4		NA	NA	NA	NA	Naturally present in environment
<i>E. coli</i>	(b)	(b)	(0)	# positives = 0		# positives = 0		NA	NA	NA	NA	Human and animal fecal waste
Heterotrophic Plate Count (HPC)	CFU/mL	TT	NA	<1	<1 - 2	<1	<1 - 65	NA	NA	NA	NA	Naturally present in the environment
DISINFECTION BYPRODUCTS AND DISINFECTANT RESIDUALS												
Total Trihalomethanes (TTHM's) (c)	ppb	80	NA	NC	NC	58	22.8 - 67.7	NA	NA	NA	NA	By-product of drinking water disinfection
Haloacetic acids (HAA's) (c)	ppb	60	NA	NC	NC	22.0	13.1 - 25.5	NC	NC	NA	NA	By-product of drinking water disinfection
Chlorine Residual as Chloramine (c)	ppm	4.0	4.0	NA	NA	2.97	0.76 - 3.84	NA	NA	NA	NA	Disinfectant added for treatment
SECONDARY STANDARDS- Aesthetic Standards Established by the State of California, Department of Health Services												
Aluminum	ppb	200	NA	74	<50.0 - 182	NC	NC	<50	<50	<50	<50	Residue from treatment processes
Chloride	ppm	500	NA	NC	NC	NC	NC	98.8	98.8	76	76 - 77	Runoff / leaching of natural deposits
Color	units	15	NA	NC	NC	<1	<1 - 1	4	4	4	4	Naturally occurring organic materials
Specific Conductance	umhos/cm	1600	NA	NC	NC	NC	NC	762	762	810	810	Substances that form ions in water
Sulfate	ppm	500	NA	NC	NC	NC	NC	168	168	170	160 - 170	Runoff / leaching of natural deposits
Total Dissolved Solids	ppm	1000	NA	NC	NC	NC	NC	527	527	490	480 - 500	Runoff / leaching of natural deposits
Turbidity	NTU	5	NA	0.05	0.03 - 0.09	< 0.1	<0.1 - 0.30	0.775	0.775	0.5	0.3 - 0.7	Soil runoff
UNREGULATED CONTAMINANTS - May become regulated in the future												
Boron	ppb	NA	NL=1000	NC	NC	NC	NC	146	146	120	120	Erosion of natural deposits
OTHER PARAMETERS												
Alkalinity	ppm	NA	NA	NC	NC	NC	NC	111	111	120	110 - 120	
Calcium	ppm	NA	NA	NC	NC	NC	NC	48.2	48.2	56	54 - 57	Runoff / leaching of natural deposits
Hardness as calcium carbonate	ppm	NA	NA	NC	NC	NC	NC	218	218	230	220 - 230	Leaching from natural deposits
Magnesium	ppm	NA	NA	NC	NC	NC	NC	24.7	24.7	20	20 - 21	Runoff / leaching of natural deposits
Phosphorus	ppb	NA	NA	NC	NC	NC	NC	253	<20 - 855	NA	NA	
Potassium	ppm	NA	NA	NC	NC	NC	NC	4.64	4.64	4.0	3.8 - 4.2	
Sodium	ppm	NA	NA	NC	NC	NC	NC	83.0	83.0	73	71 - 75	Runoff / leaching of natural deposits
Total Organic Carbon	ppm	TT	NA	NC	NC	NC	NC	3.14	2.78 - 3.34	3.0	2.9 - 3.1	Natural and manmade deposits
LEAD AND COPPER RULE												
Copper	ppm	AL=1.3	0.3	(90th percentile = 0.0568)		0.118	<0.050 - 0.243	0 out of 30 above AL (no violations)				Internal corrosion of household plumbing systems
Lead	ppb	AL=15	0.2	(90th percentile = <5.0)		8.7 (e)	<5.0 - 8.7	0 out of 30 above AL (no violations)				
ABBREVIATIONS:												
AL = Action Level	DEFINITIONS and NOTES:											
NA = Not Applicable	MAXIMUM CONTAMINANT LEVEL (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.											
NC = Not Collected	MAXIMUM CONTAMINANT LEVEL GOAL (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.											
ND = None Detected	PUBLIC HEALTH GOAL (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.											
NL = Notification Level	PRIMARY DRINKING WATER STANDARD (PDWS): MCLs for contaminants that affect health along with their monitoring, treatment, and reporting requirements.											
NS = No Standard	TREATMENT TECHNIQUE (TT): A required process intended to reduce the level of a contaminant in drinking water.											
NTU = Nephelometric Turbidity Units	REGULATORY ACTION LEVEL (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.											
pCi/L = pico Curies per liter	(a) TURBIDITY: A measure of the cloudiness of water; indicates effectiveness of the filtration system. Must be less than 0.3 NTU in 95% of monthly readings, and always less than 5.0 NTU.											
ppb = parts per billion (ug/L)	(b) MICROBIOLOGICAL: No more than 5.0% of monthly samples may be total coliform-positive. Two consecutive positives, one being E-coli, is a violation. No MCL violations in 2013 occurred.											
ppm = parts per million (mg/L)	(c) TTHM, HAA, and Chlorine Residual averages are for the highest running annual average (RAA) for 2013. RAA is the average of the four most recent quarters results.											
TT = Treatment Technique	(d) CDPH considers 50 pCi/L to be the level of concern for beta particles.											
umhos/cm = micromhos/centimeter	(e) The average is based on a single sample.											

ADDITIONAL PUBLIC INFORMATION:

In accordance with the mandate of the Safe Drinking Water Act (SDWA), the California Department of Public Health (CDPH) has developed the Drinking Water Source Assessment and Protection (DWSAP) Program to evaluate watershed vulnerability to potential contamination sources. The City of Poway completed its assessment in December 2010. The assessment documents are available for public review upon request from the Poway City Clerk's Office, (858) 668-4535, or the CDPH Sacramento Office (see IMPORTANT PHONE NUMBERS below).

Metropolitan Water District (MWD) SOURCE WATER ASSESSMENT:

In December 2002, MWD of Southern California completed its source water assessment of its Colorado River and State Water Project supplies. Colorado River supplies are considered to be most vulnerable to recreation, urban / storm water runoff, increasing urbanization in the watershed, and wastewater. State Water Project supplies are considered to be most vulnerable to urban / storm water runoff, wildlife, agriculture, recreation, and wastewater. A copy of the assessment can be obtained by contacting Metropolitan by phone at (213) 217 - 6850.

UNREPORTED WATER QUALITY PARAMETERS:

Only "detected" parameters are included in this report, as required by the State. Over 75 additional water quality parameters were investigated, and not detected at the detection limits required by the State of California.

LEAD AND COPPER RULE:

Mandated by the EPA effective in 1992, the Rule monitors for lead and copper contamination after the water has left the distribution system. Water is collected from selected representative household faucets every three years. The most recent sampling was in July, 2013, and the next sampling is due in July, 2016.

METHYL-tert-BUTYL-ETHER (MTBE):

Not detected in Poway water supply. MTBE has been found in some groundwater wells in California. The source is most likely from leaking underground gasoline storage tanks. Poway relies on surface water sources which are less vulnerable to MTBE contamination.

WATER CONSERVATION TIPS:

- + Fix leaking faucets, hoses, pipes, toilets, sprinklers, etc.
- + Wash full loads only of laundry and dishes.
- + Install water-saving devices in faucets, toilets, showers, and appliances.
- + Water the lawn, garden, and agriculture in the early morning or evening.
- + Use mulch around plants, shrubs, and trees.

OPPORTUNITY FOR PUBLIC PARTICIPATION:

The City Council meets on the 1st and 3rd Tuesday of each month at 7:00 P.M. in the Council Chambers at City Hall, located at 13325 Civic Center Drive.

INFORMATIVE WEB SITES:

EPA Drinking Water Website : <http://water.epa.gov/drink/index.cfm>
 State of California, Department of Public Health (CDPH) :
<http://www.cdph.ca.gov/programs/Pages/DWP.aspx>

IMPORTANT PHONE NUMBERS:

City of Poway Water Treatment Plant..... (858) 668-4751
 EPA Safe Drinking Water Hotline..... (800) 426-4791
 California DPH, Office of Drinking Water..... (916) 449-5600

DEFINITIONS and NOTES (continued):

Maximum Residual Disinfectant Level (MRDL): The Highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

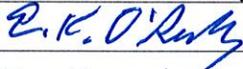
Consumer Confidence Report Certification Form

(To be submitted with a copy of the CCR)

Water System Name: City of Poway

Water System Number: CA3710015

The water system named above hereby certifies that its Consumer Confidence Report was distributed on **June 20, 2014**, to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the California Department of Public Health.

Certified by: Name: E.K. "Kevin" O'Reilly
Signature: 
Title: Water Treatment Plant Supervisor
Phone Number: (858) 668-4752 Date: June 30, 2014

To summarize report delivery used and good-faith efforts taken, please complete this page by checking all items that apply and fill-in where appropriate:

- CCR was distributed by **mail** or other direct delivery methods (attach description of other direct delivery methods used).
- CCR was distributed using electronic delivery methods described in the Guidance for Electronic Delivery of the Consumer Confidence Report (water systems utilizing electronic delivery methods must complete the second page).
- "Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:
 - Posting the CCR at the following URL: <http://www.poway.org/Index.aspx?page=326>
 - Mailing the CCR to postal patrons within the service area: **92064, 92074**
 - Advertising the availability of the CCR in news media (attach copy of press release)
 - Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)
 - Posted the CCR in public places: **Poway City Hall, Poway Public Works Administration, and Poway Lester J. Berglund Water Treatment Plant.**
 - Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools
 - Delivery to community organizations (attach a list of organizations)
 - Publication of the CCR in the electronic city newsletter or electronic community newsletter or listserv (attach a copy of the article or notice)
 - Electronic announcement of CCR availability via social media outlets (attach list of social media outlets utilized)
 - Other (attach a list of other methods used)
- For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following URL: www._____
- For privately-owned utilities: Delivered the CCR to the California Public Utilities Commission

