

CITY OF SANTA CLARA WATER UTILITY

CONSUMER CONFIDENCE REPORT 2011

The City of Santa Clara is committed to providing you, the water consumer, with a safe and reliable supply of high quality drinking water. Each year we publish our annual water quality report known as the <u>Consumer Confidence Report</u>. This is our 23rd annual report on water quality. It contains the latest water quality monitoring results obtained through the end of calendar year 2010. It answers some of the most common water quality questions asked by our customers. We hope it will provide the facts and perspectives you need to make an informed evaluation of your tap water.

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

This report has been prepared in accordance with the requirements of the Safe Drinking Water Act and State regulations. Although the water you receive is tested for over 100 potential contaminants and 48 other parameters, the majority of the potential contaminants are never detected. To simplify the report, only the constituents that were detected in at least one water source appear in the water quality table. We are also required by the State to provide additional information about certain constituents that appear on the water quality table even though the water meets all applicable drinking water standards.

Q: What are the standards that drinking water must meet?

A: The quality of drinking water is carefully regulated by the Federal Government. In 1974, Congress passed the Safe Drinking Water Act, requiring the United States Environmental Protection Agency (USEPA) to establish uniform standards for drinking water. The Safe Drinking Water Act was further amended in 1986 and 1996, adding even more stringent standards. In California, these standards are enforced by the California Department of Public Health (CDPH), Division of Drinking Water and Environmental Management.

There are two types of drinking water standards. **PRIMARY STANDARDS** are designed to protect public health. These standards specify the limits, called "Maximum Contaminant Levels" (MCLs) for substances in water that may be harmful to humans or affect their health if consumed in large quantities. **SECONDARY STANDARDS** are based on aesthetic qualities of water such as color, taste and odor. These standards specify limits for substances that may affect consumer acceptance of the water. Both Primary and Secondary Standards are listed in this Report.

It is important to us that you, the water consumer, have current and factual information about your water supply. In this latest issue of our Report, we hope to further your understanding and strengthen your confidence in the quality and integrity of the water supplied to you by the City of Santa Clara. We take great pride in delivering the safest and highest quality water available.

If you have any questions about the information in this report, or if you want to participate in water quality related issues, please call us at 408-615-2000. You may also attend regularly scheduled City Council meetings at 7 p.m. on two Tuesdays each month in the Council Chambers of City Hall, 1500 Warburton Avenue, Santa Clara

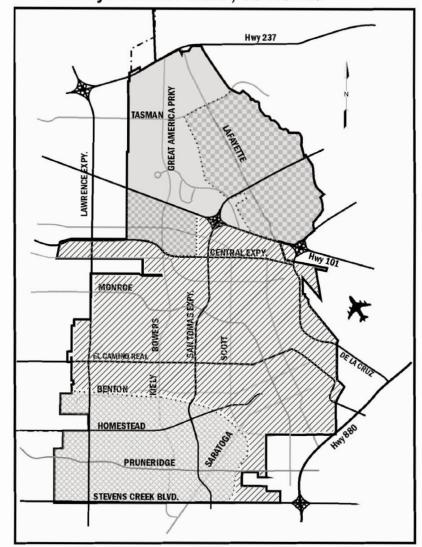


Q: Where does our water come from?

A: The City of Santa Clara has three separate sources of drinking water. Often, these sources are used interchangeably or are blended together. Together, these sources provide an average of 22 million gallons of water per day to the homes, businesses, industries and institutions of Santa Clara. In 2010 about 32% of our water was treated surface water purchased from the Santa Clara Valley Water District (District), imported from the Sacramento-San Joaquin Delta, and from the San Francisco Public Utility Commission's (SFPUC) Hetch Hetchy System (imported from the Sierra Nevada Mountains).

District water serves primarily the southwesterly portion of the City. Hetch Hetchy water typically serves the area north of Highway 101. The remaining 68% is pumped from our system of 27 deep wells serving the rest of the City. Refer to the map below. It shows the general areas served by the different water sources.

City of Santa Clara, California



SFPUC Hetch Hetchy

Blend of SFPUC Hetch Hetchy and well water

City of Santa Clara well water

Blend of well water and SCVWD treated surface water

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INFORMATION ABOUT THE DRINKING WATER SOURCE ASSESSMENT PROGRAM:

The City has completed a Drinking Water Source Assessment Program and Plan (DWSAP) for the groundwater sources. The DWSAP was completed in August 2002 and submitted to the CDPH in December 2002. A copy of the DWSAP is available at the City's Water Utility offices at 1500 Warburton Avenue, Santa Clara. You may request a summary of the individual assessments by contacting the Water Utility at 408-615-2000 or by email at water@santaclaraca.gov.

The City's groundwater sources are considered most vulnerable to contamination from leaking underground tanks containing fuel or drycleaning chemicals; old, unrecorded septic systems; storm drain dry wells located at various places around the City; many old, shallow, private wells, abandoned and not properly destroyed; and possibly some contaminants from a small landfill dump left over from the early part of the 20th century.

The City owns and operates 27 active deep wells. Only one well shows measurable contamination from regulated solvents, Well 24. This well is still in operation and the solvent level is monitored frequently. The contaminants are attributed to a plume from a nearby CERCLA (Superfund) site. Refer to the accompanying table for details.

The City purchases water from the **Hetch Hetchy System**. The SFPUC aggressively protects the natural water resources entrusted to its care. An annual report on the Hetch Hetchy and its neighboring watersheds is prepared to evaluate their sanitary conditions, water quality, and potential contamination sources. The report also presents performance results of watershed management activities implemented by the SFPUC and its partner agencies, such as the National Parks Service, to reduce or eliminate potential contamination sources. The 2007 sanitary survey concludes that very low levels of contaminants associated with wildlife and human activities exist in the Sierra Nevada watersheds. The SFPUC complies with monitoring and reporting requirements to protect its watersheds and to update its watershed sanitary surveys for the Hetch Hetchy supply annually.

The SFPUC also conducts sanitary surveys of the two local watersheds (the **Alameda Watershed** and the **Peninsula Watershed**) every five years. The potential contamination sources identified in the 2005 survey are similar to the Sierra Nevada watersheds. These surveys reports are available at the CDPH San Francisco District office (510-620-3474).

The District provides treated surface water to our water system from the **Rinconada Water Treatment Plant**, one of three water treatment plants the District operates. District surface water is imported from the South Bay Aqueduct, Lake Del Valle and San Luis Reservoir, which all draw water from the Sacramento - San Joaquin Delta watershed. The District's local water sources include Anderson and Calero Reservoirs. The District's

source waters are vulnerable to potential contamination from a variety of land use practices, such as agricultural and urban runoff, recreational activities, livestock grazing, and residential and industrial development. The imported sources are also vulnerable to wastewater treatment plant discharges, seawater intrusion, and wildland fires in open space areas. In addition, local sources are vulnerable to potential contamination from commercial stables and historic mining practices. No contaminant associated with any of these activities has



been detected in the District's treated water. The water treatment plants provide multiple barriers for physical removal and disinfection of contaminants. For additional information, visit the District website at www.valleywater.org.

Q: Is fluoride added to our water?

Fluoride is nature's cavity fighter. Fluoridation adjusts the naturally occurring fluoride in drinking water to the ideal level for protecting your teeth. Fluoridated drinking water benefits people of all ages by preventing tooth decay. In November of 2005, the SFPUC Hetch Hetchy system completed construction of a fluoridation facility in the East Bay. The water purchased by the City from the SFPUC is fluoridated. If your zip code is 95054, you are in the area receiving fluoridated water. However, this area is also served by well water that has not been fluoridated. The map on the front page of this report that shows the area supplied with water from both the Hetch Hetchy system and the City's wells. The majority of the City will continue to receive water without added fluoride. State law requires the addition of fluoride to all water systems in California serving 10,000 customers or more. Fluoridation of the remaining water sources in the City would require installation of fluoride injecting equipment at each of the City's 27 active wells and at its treated water connection from the District. The law includes a provision for State funds to finance this fluoridation equipment. However, it may be some time before the State can provide funding to move forward with a fluoridation program for the remainder of the City.

For more information about fluoridation, log on to the California Department of Public Health website: (www.cdph.ca.gov/certlic/drinkingwater/Pages/Fluoridation.aspx).

Contaminants that occur in drinking water obtained from surface sources and underground sources:

Sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, reservoirs, springs and wells. As water travels over land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

- Microbial (microbiological) contaminants, such as viruses and bacteria, that may come from wildlife, agriculture and/or livestock operations, sewage treatment plants and septic systems;
- Inorganic contaminants such as salts and metals, occurring naturally or resulting from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming;
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses;
- Organic chemical contaminants including synthetic and volatile organic compounds. These are by-products of industrial processes, petroleum production, gas stations, urban stormwater runoff, agricultural chemical and fertilizer applications, and septic systems;
- Radioactive contaminants, which can be naturally occurring or result from oil and gas production and mining.

In order to ensure that tap water is safe to drink, the USEPA and the CDPH 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.

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. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water hotline at 1-800-426-4791. You may also contact the USEPA at www.epa.gov/safewater.

<u>Information and guidance for people with compromised immune systems:</u>

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/Center for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, and other microbial contaminants are available from the Safe Drinking Water Hotline 1-800-426-4791, or on the EPA's web site www.epa.gov/safewater/hfacts.html.

Mahalaga ang impormasyong ito. Mangyaring ipasalin ito.

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Q: Is there any lead contamination in the City's drinking water?

A: There has been no exceedences of the ACTION LEVEL for lead in the City of Santa Clara groundwater sources or supplies purchased from other agencies. It is possible for lead levels in your home to be higher than other homes in the community because of materials used in the original construction of your home. 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 components associated with service lines and home plumbing. The City of Santa Clara is responsible for providing high quality drinking water, but cannot control the variety of materials used in non-municipal 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 two 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 1-800-426-4791 or at http://www.epa.gov/safewater/lead.

Repeat monitoring requirements not met for City of Santa Clara:

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. The City tests the water weekly for the presence of coliform bacteria. On July 6, 2010 and November 2, 2010, we did not complete all monitoring or testing for coliform bacteria and, therefore, cannot be sure of the quality of our drinking water during that time. On the two dates specified above, we did not re-test all groundwater sources within 24 hours after coliform bacteria was found as present in two samples as required by Federal regulations. The lack of monitoring within the specified timeframe does not mean that contamination was present.

The City has subsequently completed all required repeat sampling and the sample results indicate no coliform contamination in the water. The City collected an additional 24 samples in December 2010 from all active groundwater sources. These samples indicated no coliform contamination existed in any groundwater source. In addition, all follow up and weekly samples indicate that no coliform contamination of the City's water exists.

For more information, please contact Nina Hawk at 408-615-2018 or email at *nhawk@santaclaraca.gov* or at City Hall, 1500 Warburton Avenue, Santa Clara, CA 95050.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail.

Information about nitrates in groundwater resources:

Nitrate in drinking water at levels above 45 mg/L is a health risk for infants less than six months old. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask for advice from your health care provider.

Cryptosporidium and Giardia in water resources:

Cryptosporidiosis is a disease of the intestinal tract brought on by a parasitic microbe (a protozoan) called Cryptosporidium. The disease is transmitted through contaminated water, food or direct contact with human or animal waste. If you are healthy with a normal immune system, the flu-like symptoms usually last about two weeks. Symptoms include diarrhea, stomach cramps, upset stomach and slight fever. However, immuno-compromised people, infants, small children, and the elderly are at greater risk of developing life-threatening illness.

The water purchased by the City from the San Francisco Public Utilities Commission (SFPUC) Hetch Hetchy system has been tested for Cryptosporidium and Giardia. The source waters and treated waters are tested at least monthly and occasionally show very low levels of Cryptosporidium in the waters serving the East Bay, South Bay and San Francisco Peninsula. Giardia, another parasitic organism causing similar symptoms, is monitored with the same frequency and very low levels are occasionally detected in the same source waters.

The general public is at very low risk and there have been no reported cases of Cryptosporidiosis and Giardiasis attributed to the City's public water supply. This advisory applies to water received from the Hetch Hetchy system in the area of the City north of Highway 101. The CDPH issues guidance for people with serious immune system problems. Currently available guidance from the State and County health agencies recommends that people with such conditions consult with their doctor or primary health care provider about preventing Cryptosporidium and Giardia infection from all potential sources. Water consumers may choose to boil their drinking water at a rolling boil for at least one minute as an extra precaution.

For information about Cryptosporidiosis and Giardiasis, or copies of available guidance, contact the Santa Clara County Department of Environmental Health at 408-918-3400. You may also contact the USEPA Drinking Water Hotline at 1-800-426-4791.

FOR ADDITIONAL INFORMATION ON WATER QUALITY:

If you would like to learn more about drinking water quality, treatment and regulation, contact these home pages on the Internet:

- American Water Works Association: www.awwa.org
- California Department of Public Health, Division of Drinking Water and Environmental Management: www.cdph.ca.gov/programs/Pages/DDWEM.aspx
- United States Environmental Protection Agency: http://water.epa.gov/drink/
- San Francisco Public Utilities Commission, Water Quality Bureau: sfwater.org/msc_main.cfm/MC_ID/13/MSC_ID/166
- Santa Clara Valley Water District: www.valleywater.org
- Water Education Foundation: www.watereducation.org
- Water Quality Information Center: www.nal.usda.gov/wqic

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			State PHG	•	sis for Vell Water	analysis for SCVWaterDistrict		analysis for HETCH HETCHY	
TEST	UNIT	MCL	Fed MCLG	range	average	range	average	range	average
рН	units	NS	NS	7.7-8.0	7.9	7.6-7.9	7.8	8.2-8.7	8.5
Alkalinity	PPM	NS	NS	150-260	204	67-110	83	8-98	49
Hardness	PPM	NS	NS	153-330	248	88-137	113	8-104	53
Calcium (as CaCO3)	PPM	NS	NS	39-91	70	19-27	23	2-26	12
Sodium	PPM	NS	NS	22-53	32	50-84	64	3-22	13
Magnesium	PPM	NS	NS	12-31	20	11-16	14	0.3-8.9	4.6
Potassium	PPM	NS	NS	1.2-1.4	1.3	1.9-4.3	2.9	0.34-1.2	0.6

WATER QUALITY TABLE

			State PHG/	analysis for City SC Well Water			analysis for SCVWater District		or IETCHY		
	UNIT	MCL	Fed MCLG	range	average	range	average	range	average	Common Sources of:	
MARY STANDARDS:											
MICROBIOLOGICAL											
coliform bacteria	P/A/100ml		0	A	A	A	A	A	A	naturally present in environ.	
fecal coliform	P/A/100ml	% comply	0	A	A	A	A	A	A	human/animal fecal waste	
giardia lamblia	cyst/L	TT	0	NA	NA	NA	NA	ND-0.06	< 0.06	naturally present in environ.	
ADIOACTIVITY											
Gross Alpha	pCi/L	15	0	ND-4.6	<3	ND	ND	NA	NA	decay/erosion of natural deposits	
IODG ANIG CHEMICAL											
ORGANIC CHEMICAL	DDM	1	0.6	ND	ND	ND 00	NID	ND	NID	matrimal damagita/twost	
Aluminum	PPM	10	0.6	ND ND-2.9	ND 0.24	ND06 ND	ND ND	ND ND	ND ND	natural deposits/treatment proce	
Arsenic Barium	PPB PPM	10	2	0.08-0.19	0.24	ND ND	ND ND	ND ND	ND ND	erosion nat'l deposit/runoff erosion of nat'l deposit/oil drilling	
Chromium	PPM PPB	50	100	ND-5.3	1.6	ND ND	ND ND	ND ND	ND ND	erosion of nat'l deposit/oil drilling erosion of nat'l deposit/plating	
Copper	PPM	AL=15.0	0.3	ND-0.004	ND	ND ND	ND ND	ND ND	ND ND	erosion of nat'l deposit/leaching	
Fluoride	PPM	AL=15.0	1	0.08-0.16	0.12	ND-0.1	0.2	0.6-1.5	1	water additive/erosion of nat'l deposits	
Nitrate (as NO3)	PPM	45	45	3.3-26	15	ND-0.1	2.	ND	ND	runoff/leaching	
OLATILE ORGANIC CHEMICA			7.0	3.3 20	15	ND 3	<u>2</u>	IVD	ND	runon/reaching	
Freon113	PPM	1.2	4	ND-0.002	<dlr< td=""><td>ND</td><td>ND</td><td>ND</td><td>ND</td><td>metal degreasing/industrial discharge</td></dlr<>	ND	ND	ND	ND	metal degreasing/industrial discharge	
ISINFECTION BYPRODUCTS, I	RESIDUALS, PR	ECURSORS									
Trihalomethanes	PPB	80	NA	NA	NA	45-66	55.9	14-92	40	byproduct of water chlorination	
Haloacetic Acids	PPB	60	NA	NA	NA	12.3-24	16.5	7 to 55	25	byproduct of disinfection	
Chlorine	PPM	4	4	0.0-2.6	0.6	1.0-2.4	1.7	1.0-2.3	1.65	water disinfection	
TOC(precursor control)	PPM	TT	TT	NA	NA	1.8-2.9	2.19	2.4-3.2	2.7	various nat'l/manmade sources	
RIMARY STANDARDS AS ME Microbiological											
Coliform	%+	5.00%	0	P	<5%					naturally present in environment	
Fecal Coliform	%+ PD1.6	0	0	0	0					human/animal fecal waste	
Chlorine residual	PPM	4	4	0.0-2.5	0.6					water disinfection	
Inorganic Chemical as measure				004 43	0.55		N 1 F	1.1.0			
Copper	PPM PPB	AL=1.3	0.3	90th percentil		n	Number Exc				
Lead Disinfection Byproducts:	PPB	AL= 15	0.2	90th percentil	e = 3.8 ppb		Number Exc	eeded = 0			
Distinction byproducts:	PPB	80	NA	0-69	22						
Tribalomethones	CED	οU									
Trihalomethanes Haloacetic Acids	PPB	60	NA	0-42	10.7						
Haloacetic Acids ONDARY STANDARDS: "CO	PPB NSUMER ACCE	60 EPTANCE CO	NA DNTAMINENT	0-42 "LEVELS"	10.7						
Haloacetic Acids ONDARY STANDARDS: "CO Color	PPB NSUMER ACCE UNITS	60 EPTANCE CO	NA DNTAMINENT NA	0-42 "LEVELS" ND-3	<0.1	<2.5	ND	<5-6	<5	naturally occuring	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents	PPB NSUMER ACCE UNITS UNITS UNITS	60 EPTANCE CO 15 500	NA DNTAMINENT NA NA NA	0-42 "LEVELS" ND-3 ND-0.062	10.7 <0.1 ND	ND	ND	ND	ND	municipal/inductrial discharge	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese	PPB NSUMER ACCE UNITS UNITS PPB	60 EPTANCE CO 15 500 50	NA DNTAMINENT NA NA NA NA	0-42 "LEVELS" ND-3 ND-0.062 ND-31	<0.1 ND 3.4	ND ND		ND ND	ND ND	municipal/inductrial discharge leaching of natural sources	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor	PPB NSUMER ACCE UNITS UNITS PPB UNITS	60 EPTANCE CO 15 500 50 3	NA NA NA NA NA NA NA NA	0-42 "LEVELS" ND-3 ND-0.062 ND-31 ND-1	<0.1 ND 3.4 <1	ND ND 1	ND ND 1	ND ND ND	ND ND ND	municipal/inductrial discharge leaching of natural sources naturally occuring	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor Turbidity	PPB NSUMER ACCE UNITS UNITS PPB UNITS UNITS NTU	60 EPTANCE CO 15 500 50 3 5	NA NA NA NA NA NA NA NA NA NA	0-42 "LEVELS" ND-3 ND-0.062 ND-31 ND-1 0.05-0.43	<0.1 ND 3.4 <1 0.14	ND ND 1 .0709	ND ND 1 0.08	ND ND ND 0.07-0.33	ND ND ND 0.16	municipal/inductrial discharge leaching of natural sources naturally occuring soil runoff	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor Turbidity Tot.Dissolved Solids	PPB NSUMER ACCE UNITS UNITS PPB UNITS NTU PPM	60 EPTANCE CO 15 500 50 3 5 1000	NA NA NA NA NA NA NA NA NA NA	0-42 ND-3 ND-0.062 ND-31 ND-1 0.05-0.43 280-470	<0.1 ND 3.4 <1 0.14 367	ND ND 1 .0709 240-358	ND ND 1 0.08 305	ND ND ND 0.07-0.33 27-174	ND ND ND 0.16 95	municipal/inductrial discharge leaching of natural sources naturally occuring soil runoff leaching of natural sources	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor Turbidity Tot.Dissolved Solids Sp. Conductance	PPB NSUMER ACCE UNITS UNITS PPB UNITS NTU PPM um/cm	60 EPTANCE CO 15 500 50 3 5 1000 1600	NA NA NA NA NA NA NA NA NA NA	0-42 ND-3 ND-0.062 ND-31 ND-1 0.05-0.43 280-470 495-750	<0.1 ND 3.4 <1 0.14 367 626	ND ND 1 .0709 240-358 441-669	ND ND 1 0.08 305 548	ND ND ND 0.07-0.33 27-174 33-316	ND ND ND 0.16 95 179	municipal/inductrial discharge leaching of natural sources naturally occuring soil runoff leaching of natural sources subst.forming ions/seawater intrusion	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor Turbidity Tot.Dissolved Solids Sp. Conductance Chloride	PPB UNITS UNITS PPB UNITS NTU PPM um/cm PPM	60 EPTANCE CO 15 500 50 3 5 1000 1600 500	NA NA NA NA NA NA NA NA NA NA	0-42 ND-3 ND-0.062 ND-31 ND-1 0.05-0.43 280-470 495-750 20-54	<0.1 ND 3.4 <1 0.14 367 626 39	ND ND 1 .0709 240-358 441-669 56-101	ND ND 1 0.08 305 548 74	ND ND ND 0.07-0.33 27-174 33-316 3 to 16	ND ND ND 0.16 95 179 9.5	municipal/inductrial discharge leaching of natural sources naturally occuring soil runoff leaching of natural sources subst.forming ions/seawater intrusion subst.forming ions/seawater intrusion	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor Turbidity Tot.Dissolved Solids Sp. Conductance	PPB NSUMER ACCE UNITS UNITS PPB UNITS NTU PPM um/cm	60 EPTANCE CO 15 500 50 3 5 1000 1600	NA NA NA NA NA NA NA NA NA NA	0-42 ND-3 ND-0.062 ND-31 ND-1 0.05-0.43 280-470 495-750	<0.1 ND 3.4 <1 0.14 367 626	ND ND 1 .0709 240-358 441-669	ND ND 1 0.08 305 548	ND ND ND 0.07-0.33 27-174 33-316	ND ND ND 0.16 95 179	municipal/inductrial discharge leaching of natural sources naturally occuring soil runoff leaching of natural sources subst.forming ions/seawater intrusion	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor Turbidity Tot.Dissolved Solids Sp. Conductance Chloride Sulfate FE REGULATED CONTAMINA	PPB UNITS UNITS PPB UNITS NTU PPM um/cm PPM PPM ANTS with NO M	60 EPTANCE CO 15 500 50 3 5 1000 1600 500 500	NA NA NA NA NA NA NA NA NA NA	0-42 ND-3 ND-0.062 ND-31 ND-1 0.05-0.43 280-470 495-750 20-54 23-62	<0.1 ND 3.4 <1 0.14 367 626 39	ND ND 1 .0709 240-358 441-669 56-101	ND ND 1 0.08 305 548 74	ND ND ND 0.07-0.33 27-174 33-316 3 to 16	ND ND ND 0.16 95 179 9.5	municipal/inductrial discharge leaching of natural sources naturally occuring soil runoff leaching of natural sources subst.forming ions/seawater intrusion subst.forming ions/seawater intrusion	
Haloacetic Acids ONDARY STANDARDS: "CO Color Foaming Agents Manganese Odor Turbidity Tot.Dissolved Solids Sp. Conductance Chloride Sulfate	PPB UNITS UNITS PPB UNITS NTU PPM um/cm PPM PPM ANTS with NO M	60 EPTANCE CO 15 500 50 3 5 1000 1600 500 500	NA NA NA NA NA NA NA NA NA NA	0-42 ND-3 ND-0.062 ND-31 ND-1 0.05-0.43 280-470 495-750 20-54 23-62	<0.1 ND 3.4 <1 0.14 367 626 39	ND ND 1 .0709 240-358 441-669 56-101	ND ND 1 0.08 305 548 74	ND ND ND 0.07-0.33 27-174 33-316 3 to 16	ND ND ND 0.16 95 179 9.5	municipal/inductrial discharge leaching of natural sources naturally occuring soil runoff leaching of natural sources subst.forming ions/seawater intrusion subst.forming ions/seawater intrusion	

DEFINITIONS and NOTES:

DEFINITIONS AND NOTES:

PRIMARY STANDARD = MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

MCL = Maximum Contaminant Level = the highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the State PHGs (or Fed MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.

STATE PHG = State of California Public Health Goal is the level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are unenforceable targets set by the California Environmental Protection Agency.

FED MCLG = FEDERAL MAXIMUM CONTAMINANT LEVEL GOAL is the level of a contaminant in drinking water below which there is no known or expected risk to public health. MCLGs are set by the U.S. Environmental Protection Agency.

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 caontaminants.

pCi/L= picocuries per liter (a measure of radioactivity)

PPM = Parts Per Million

PPB = Parts Per Billion

P = Present

A = Absent

<DLR = less than Detection Limit for Reporting

RAL = REGULATORY ACTION LEVEL = the concentration of a contaminant, if exceeded, triggers treatment or other requirements that a water system must follow

DISTRIBUTION SYSTEM = drinking water deliver system

RESIDENTIAL TAPS = household faucets used for lead and copper sampling

DISINFECTION BYPRODUCTS = chemical by products of disinfection

SECONDARY STANDARDS = secondary MCLs are set to protect the aesthetics of drinking water

FOAMING AGENTS/UNITS = methylene blue activated substance/in units

NTU = nephelometric turbidity units

um/cm = micromoles per centimeter

NA = not applicable

ND = not detected

NS = no standard

 $\label{eq:total} \mbox{TT} = \mbox{TREATMENT TECHNIQUE} = \mbox{a required process intended to} \\ \mbox{reduce the level of a contaminant in drinking water}$

Copper and Lead Tap Monitoring was performed in August 2010.

BORON = the babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals

VANADIUM = the babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals

 $\label{eq:hardness} \mbox{HARDNESS} = \mbox{generally, naturally occurring magnesium and calcium.}$

SODIUM = refers to the salt present in the water and is generally naturally ocurring.

FECAL COLIFORM and E. COLI = are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.

