Uranium:

Samples for Uranium are collected only when the quarterly average of Gross Alpha particle activity exceeds 5 pCi/L. Since only Well No. 18 had results for Gross alpha particle activity greater than 5 pCi/L when the counting error was used in 2006, uranium was sampled for four consecutive quarters in 2008 and ranged from 2.11 to 7.92 pCi/L. The DLR for uranium is 1 pCi/L and the MCL is 20 pCi/L.

- ***Health effects of Uranium:*** Some people who drink water containing uranium in excess of the MCL over many years may have kidney problems or an increased risk of getting cancer.

Lead and Copper:

The tap samples for Lead and Copper were taken in the year 2009 (50 samples). The 90th percentile results of <5 ppb for lead and 0.402 ppm for copper are well within the AL of 15 ppb lead and the AL of 1.3 ppm for copper. The District is scheduled to draw new sample sets in the year 2012.

- 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. Palmdale Water District is responsible for providing high quality drinking water, but cannot 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 drinking 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 (800-426-4791) or at http://www.epa.gov/safewater/lead.
- ***Health effects of Lead:*** Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before using tap water.
- ***Health effects of Copper:*** Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time may experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years may suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.

Palmdale Water District's Web-Site-Services and Rebates

The Palmdale Water District has a new website that is easier to use and offers our customers several new services and a faster way to find District reports, rebate applications, and other helpful information.

An exciting feature of the new website that is highly anticipated is the Autopay and E-check service. Scheduling automatic or one time payments with a checking account, savings account or credit card number will be available. Also, based on customer requests, we have added the option to "Go Green" with the new online bill pay and presentment. Customers now have the option of going completely paperless with e-mailed billing or can request both a hard copy and e-mailed version of the water bill. In addition, customers can now view bill and payment history up to 18 months online! Current on-line customers will need to re-register on the District's new website.

The new website makes it much easier to find information on the District's rebate programs. Several of the rebates only require the customer's water bill, original receipt, and the rebate application to process a credit rebate back on the customer's account. Toilet, washing machine, MP rotator and smart controller rebates can be processed quickly in this manner. The District's "Cash for Grass" program needs the customer to read the criteria and have the District's representative come out before any grass can be taken out. The full information and the application for the "Cash for Grass" program is located on the website.

A copy of the Consumer Confidence Report can also be found on the website

www.palmdalewater.org

EVERY DROP COUNTS

PRSRT STD
U.S. POSTAGE
PAID
PERMIT NO. 1
PALMDALE, CA

Palmdale Water District
2029 E. Avenue Q
Palmdale, CA 93550
661.947.4111

2011
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Dennis LaMoreaux

PALMDALE WATER DISTRICT
2010 CONSUMER CONFIDENCE REPORT

Educational Information and Possible Drinking Water Contaminants:

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 (1-800-426-4791).

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/ Centers 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). PWD tested for cryptosporidium monthly in 2007 and results were "none detected."

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the 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 from human activity.

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 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 chemicals that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants,* which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the USEPA and the California Department of Public Health (Department) make 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.

PALMDALE WATER DISTRICT
2010 CONSUMER CONFIDENCE REPORT

Our Mission: To provide high quality water to our current and future customers at a reasonable cost.

Questions or comments on the contents of this report are encouraged:

Call Peter K. Thompson Jr., Production Manager, 661-947-4111 x309 or Joe Kerschner, Water Quality Supervisor, 661-947-4111 x306 Monday through Friday, 7:00 a.m. to 4:30 p.m.

Attendance, participation, questions, and comments are encouraged:

- Attend Board of Directors' meetings the second and fourth Wednesday of each month. Board meetings start at 7:00 p.m. and are held at the District office, 2029 East Avenue Q, Palmdale.
- Call 661-947-4111 with questions about the District or to file a water quality complaint.
- Call 661-947-4111 x120 or x101 for information on water conservation or water education.
- Visit our web site at www.palmdalewater.org.

Attencion Residentes!

Que no hablan Ingles: Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien, ó para recibir una version en Espanol sobre este informe, favor de llamar a la oficina de P.W.D. al telefono 661-947-4111.

The Palmdale Water District is proud to announce 100% regulatory compliance in 2010 and is confident its drinking water is of the highest quality. This Consumer Confidence Report is a snapshot of last year's (2010) water quality and will provide you with a better understanding of the quality of your drinking water.

This Report includes details about where your water comes from, what it contains, and how it compares to Drinking Water standards. We are committed to providing you with this information because informed customers are our best allies.

Stringent water quality testing is performed before the water is delivered to consumers. Last year, PWD tested more than 3,000 samples for over 80 regulated contaminants. Only ten primary standard contaminants were detected, but all were at levels below the Maximum Contaminant Level allowed by the State.

Please take the time to review this Consumer Confidence Report and Water Quality Data Chart to become an informed consumer. The Water Quality Data Chart is divided into two standards – ***Primary*** and ***Secondary.***

Primary standards are set to protect public health from contaminants in water that may be immediately harmful to humans or affect their health if consumed for long periods of time.

Secondary standards govern aesthetic qualities of water such as taste, mineral content, odor, color, and turbidity.

Please call 661-947-4111 x306 or x309 with any questions.

PWD Sources of Water Supply

PWD obtains its water from one of three sources or a combination of these sources. The first source is ***surface water*** from the State Water Project (California Aqueduct). This water source begins in Northern California, flows into the Delta near Sacramento, and is pumped traveling South to Palmdale Lake. The District is entitled to take a maximum of 21,300 acre feet (or 6.9 billion gallons of water) per year. Based on the amount of rain & snowfall that falls in the Sierra Nevada Mountains and the amount of water stored in northern California reservoirs, the District is granted a percentage of the annual entitlement. In 2010 the District received an annual entitlement of 50% or 10,650 acre feet. The water is drawn from the aqueduct and stored in Palmdale Lake prior to treatment.

The second source of ***surface water*** is from the reservoir created by Littlerock Dam. Littlerock Dam was originally built in 1922 and was recently renovated to increase the storage capacity of the reservoir to 3,500 acre feet, or 1.1 billion gallons, of water. In 2010 the District drew 1,861 acre feet from this source. Littlerock Dam Reservoir is fed by natural run-off from snow packs in the local San Gabriel Mountains and from rainfall. The water is then transferred from Littlerock Reservoir to Palmdale Lake through a ditch connecting the two reservoirs for storage prior to treatment.

The third source of water for the District's customers is ***ground water.*** *Ground water* is pumped from the Antelope Valley ground water basin through 23 wells and in 2010 the District pumped 7,776 acre feet from these wells. This water is treated with chlorine and pumped directly into the distribution system.

All three sources are constantly tested and treated in compliance with all applicable regulations to ensure high water quality and dependability of the water system. The Palmdale Water District delivered approximately 61% surface water and 39% ground water to its consumers in 2010.

EVERY DROP COUNTS

Definitions

The following definitions of key terms are provided to help you understand the data used in this report

- ***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.
- ***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 (USEPA).
- ***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 OEHHA (Office of Environmental Health Hazard Assessment) a division of the California Environmental Protection Agency (CEPA).
- ***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.
- ***Running Annual Average (RAA):*** The running annual arithmetic average, computed quarterly, of quarterly arithmetic averages of all samples collected.
- ***Detection Limit for purposes of reporting (DLR):*** The designated minimum level at or above which any analytical finding of a contaminant in drinking water shall be reported to the Department of Public Health.
- ***Unregulated Contaminant Monitoring (UCMR):*** Unregulated contaminant monitoring helps USEPA and the California Department of Public Health to determine where certain contaminants occur and whether the contaminants need to be regulated.
- ***Treatment Technique (TT):*** A required process intended to reduce the level of a contaminant in drinking water.
- ***Regulatory Action Level (AL) or Notification Level (NL):*** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- ***Primary Drinking Water Standard (PDWS):*** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.
- ***Secondary Drinking Water Standard (SDWS):*** MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SWDSs do not affect the health at the MCL level.
- ***Counting Error:*** The 95% confidence level for the radioactivity analysis.

Abbreviations used in 2010 Water Quality Data Chart:

- ***ND:*** Not detectable or None detected at testing limit (DLR)
- ***NA:*** Not Applicable
- ***Nreg:*** No regulation
- ***<*** Less Than
- ***>*** Greater Than
- ***pCi/L:*** picocuries per liter (a measure of radiation)
- ***DBP:*** Disinfection Byproducts

Comparison examples are provided for the following measurements to help you better understand the amount of chemical contaminants detected in the water. This does not mean that the amounts are not significant regarding risk of health effects for specific contaminants.

- ***ppm:*** parts per million or milligrams per liter (mg/L) = qualitatively, approx. 1 drop in 10 gals.
- ***ppb:*** parts per billion or micrograms per liter (ug/L) = qualitatively, approx. 1 drop in 10,000 gals.
- ***ppt:*** parts per trillion or nanograms per liter (ng/L) = qualitatively, approx. 1 drop in 100,000 gals.

Drinking Water Source Assessment and Protection Program:

The Palmdale Water District's Sanitary Survey, including a Source Water Assessment of surface waters, was updated in January of 2008 in compliance with State of California regulations. The assessment of surface water sources included Littlerock Reservoir and Palmdale Lake. A Groundwater Assessment and Protection Program was completed in January of 1999, and a Wellhead Protection Plan was completed in November 2000.

The District's drinking water sources are considered most vulnerable to the following activities associated with contaminants detected in the water supply: illegal activities, such as unauthorized dumping; recreation; highways; railroads; and sewer collection systems. A comprehensive source water protection program can prevent contaminants from entering the public water supply, reduce treatment costs, and increase public confidence in the quality, reliability and safety of drinking water.

You can help prevent water contamination and pollution by properly disposing of trash and waste materials. Remember, many common household products can contaminate surface and ground water supplies. Anything you throw in the trash, dump on the ground, pour down the drain, or wash down the driveway can eventually reach water sources and cause contamination.

The Sanitary Survey, Source Water Assessment, Groundwater Assessment, and Wellhead Protection Plan are available for review on the Districts website (palmdalewater.org) or at the District's office by calling Peter K. Thompson Jr. at 661-947-4111 x309.

2010 Water Quality Data Chart

The Water Quality Data chart lists all drinking water contaminants detected during the 2010 calendar year. The presence of these contaminants in the water does not necessarily indicate the water poses a health risk. PWD tests for many contaminants in addition to those listed in the chart. Test results for these additional contaminants were all "None Detected (ND)" and are not required to be included in the chart. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. As a result, some of the data, though representative of the water quality, is more than one year old. Unless otherwise noted, the data presented in this chart is from testing performed January 1 to December 31, 2010.

Parameter	MCL or MRDL (Units)	Meets Standard? YES/NO	DLR	Sample Frequency* and Source of Water	Treated Surface Water			*Ground Water Sampled in 2010			EPA (MCL) (PHG) OR (MRDLG)	Typical Source of Contaminant
Primary Standards					Range	Sampled in 2010 or Average Effluent		Range	Average			
Turbidity (Water Clarity) Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system	TT = 1NTU TT = 95% of monthly samples ≤0.3 NTU	YES	NA	Continuous/Once in 3 yrs.	0.06 - 0.15 100%	0.09 100%		<0.2-0.6	0.08		NA	Soil Runoff
Total Trihalomethanes (TTHMs) [Chlorine Byproducts] - Range of Individual Samples and Highest Average Annual Average are of Data Maximum	80	YES		Monthly/Quarterly	14 - 111	35.2		ND - 111	35.2		NA	Byproduct of drinking water chlorination
Dist. System Microbiological												
Total Coliform Bacteria (Total Coliform Rule)	Systems that collect less than 40 samples/month: No more than 1 positive sample/month Systems that collect at least 40 samples/month: More than 5.0% of monthly samples are positive	YES	NA	Weekly/NA	N/A	0%		NA	NA		0	Naturally present in the environment
E. coli (Federal Groundwater Rule)	0	YES	NA	Weekly	N/A	0%		NA	0		0	Human and animal fecal waste
Organic Chemicals												
Disinfection By-products					System HAA from Dist. Start							
TTHMs	80ug/L	YES	NA	Monthly/NA	All Systems Range	Highest RAA		NA	NA		NA	By-product of drinking water disinfection
HAA5	60ug/L	YES	NA	Quarterly/NA	ND - 31	5.7		NA	NA		NA	By-product of drinking water disinfection
Chlorine Residual	4.0 (mg/L as Cl_2)	YES	NA	Weekly/NA	System TTHM from Dist. Start			NA	NA		HI	Drinking water disinfectant added for treatment
Chlorine Residual Disinfectant Precursors	TT= ratio of actual TOC removed to required TOC removal shall be ≥ 1	YES	0.3	Monthly/NA	0.07- 2.2 0.5 - 1.6	1.0 1.0		NA	NA		NA	Various natural and manmade sources
Organic Carbon (Total)	10ppb	YES	2	Yearly/Once in 3yrs	NA	ND		ND - 2	ND		0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Radium	1000pg/L	YES	100	Yearly/Once in 3yrs	NA	ND		ND - 170	ND		2000	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Nitrate (as NO_3)	45mg/L	YES	2	Monthly/Quarterly	NA	ND		ND - 19.5	7.8		45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrate (as NO_3)	45mg/L	YES	2	Quarterly/Quarterly	ND	ND		ND - 19.5	7.8		45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Radioactivity												
Gross Alpha Particle Activity***	15 pCi/L	YES	3	*See comment below	ND	ND		ND - 6.12	ND		0	Erosion of natural deposits
Uranium***	20 pCi/L	YES	1	MA/Quarterly	NA	NA		NA	NA		0.43	Erosion of natural deposits
Tap Monitoring Lead & Copper												
Lead	Action Level 15ppb	YES	5	No. of samples in 2009 90	90th Percentile 0.402			None	NA		0.2	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper	1.3ppm	YES	0.05						NA		0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Secondary Standards												
Aesthetic Chemicals												
Aluminum	200ug/L	YES	50	Monthly/Once in 3yrs	ND	ND		ND - 130	ND		600	Erosion of natural deposits; residual from some surface water treatment processes
Odor	3 units	YES	NA	Weekly/Once in 3yrs	NA	<3		NA	<3		NA	Naturally occurring organic materials
Odor Threshold	3 units	YES	NA	Weekly/Once in 3yrs	NA	<3		NA	<3		NA	Naturally occurring organic materials
Chloride	500 mg/L	YES	NA	Quarterly/Quarterly	64 - 92	78		5.0 -92	28.9		NA	Runoff/leaching from natural deposits; seawater influence
Color	15 units	YES	3	Monthly/Once in 3yrs	ND	ND		ND	ND		15	Naturally occurring organic materials; erosion of natural deposits; leaching from wood preservatives
Iron	300ug/L	YES	100	Monthly/Once in 3yrs	ND	ND		ND	ND		NA	Leaching from natural deposits; industrial wastes
Manganese	50ug/L	YES	20	Monthly/Once in 3yrs	ND	ND		NA	ND		NA	Leaching from natural deposits; industrial wastes
Sulfate	500mg/L	YES	0.5	Quarterly/Quarterly	14 - 55	39		18 - 73	39		NA	Runoff/leaching of natural deposits; industrial wastes
Zinc	5000ug/L	YES	50	Monthly/Once in 3yrs	ND	ND		ND	ND		NA	Runoff/leaching of natural deposits; industrial wastes; corrosion control
TDS (Total Dissolved Solids)	1000mg/L	YES	50	Monthly/Once in 3yrs	310	310		110 - 570	345		NA	Runoff/leaching from natural deposits
Specific Conductance	1600 µmhos/cm	YES	NA	Monthly/Once in 3yrs	589	589		298 - 944	412		NA	Substances that form ions when in water; seawater influence
Unregulated Contaminants Analyzed												
pH	NA (units)	NA	NA	Continuous/Once in 3yrs	6.9 - 9.3	7.22		7.6 - 8.73	8.10		NA	Leaching from natural deposits
Hardness	Mg/m(g/l)	NA	NA	Weekly/Once in 3yrs	102 - 124	117		20 - 355	120		NA	Sum of polyvalent cations present in the water, generally, magnesium and calcium. The cations are usually naturally occurring
Alkalinity	Mg/m(g/l)	NA	NA	Weekly/Once in 3yrs	96 - 108	102		80 - 299	122		NA	Measure of the capacity of the water to neutralize acids
Sodium	Mg/m(g/l)	NA	NA	Yearly/Once in 3yrs	NA	83		6 - 77	36		NA	Generally naturally occurring salt present in water
Calcium	Mg/m(g/l)	NA	NA	Yearly/Once in 3yrs	NA	27		16 - 103	37		NA	Abundant naturally occurring element; major component of limestone deposits
Potassium	Mg/m(g/l)	NA	NA	Yearly/Once in 3yrs	NA	3		ND - 4	1.4		NA	Leaching from natural deposits
Vanadium	Mg/m(g/l)	NA	NA	Yearly/Once in 3yrs	NA	11		ND - 24	6.7		NA	Dissolved as water passes through magnesium-bearing minerals
Natural Uranium												
Radium 228	5pCi/L	NA	1	4 Quarters by 12/31/2007	NA	ND		NA	ND		0.019	Erosion of natural deposits
UCMR												
Chromium VI	No Standard (ug/L)	NA	1	Yearly/Yearly	NA	ND		ND - 15.2	4.17		NA	Steel and pulp mill discharges, chrome plating, natural erosion
Strontium (Sr) (ug/L)	No Standard (ug/L)	NA	10	Yearly/Once in 3yrs	NA	1,000		1,000 - 2,900	1,633		NA	Naturally occurring element found in rocks and ores; used in fireworks, paint and glass
Vanadium (N, < 50ug/L)	No Standard (ug/L)	NA	3	Yearly/Once in 3yrs	NA	ND		7.0 - 40.0	15.3		NA	Leaching from natural deposits; steel manufacturing; hazardous waste sites

* Wells are sampled once/3yrs except for Fluoride, Chloride, Sulfate, & Nitrate which are sampled quarterly.
** Sample collected only when quarterly average of Gross Alpha exceeds 5pCi/L. Range is from individual sample results. Compliance is based on the average of four consecutive quarters.
*** Sample collected only when quarterly average of Gross Alpha exceeds 5pCi/L.

Unregulated contaminant monitoring helps USEPA and the California Department of Public Health to determine where certain contaminants occur and whether the contaminants need to be regulated.

Total Trihalomethanes (TTHMS):

Total Trihalomethanes (TTHMs) are the total of four trihalomethanes of concern in drinking water: chloroform, bromoform, bromodichloromethane, and chlorodibromomethane. In the Primary Standards Disinfection Byproducts section of the Water Quality Chart under System RAA from Distribution System, the highest area-wide quarterly Running Annual Average (RAA) for 2010 is 35.2 µg/L, which is less than and complies with the Federal TTHM MCL of 80 µg/L. The range of monthly sample results from all 16 sampling points in 2010 is ND – 111 µg/L, indicating that certain sampling points or specific locations within the customer service area have exceeded 80 µg/L. These samples were taken from dedicated sample points within the distribution system and are representative of maximum residence time in the system. The Federal TTHM MCL of 80 ppb will be applicable to each sampling point or location by Year 2012 pursuant to a recently approved USEPA ruling.

- ***Health effects of Total Trihalomethanes (TTHMs):*** Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems and may have an increased risk of getting cancer.

Total Organic Carbon (TOC):

Total Organic Carbon (TOC) has no health effects. However, TOC provides a medium for the formation of disinfection byproducts. TOC result is based on quarterly RAA of percent removal ratio. Paired samples (one from source and the other from treated water) are collected monthly. The percent removal between source water and treated water is divided by the required monthly TOC percent removal based on certain criteria that all public water systems must follow. The quarterly RAA of these monthly results should be 1.00 or higher. Our quarterly RAA in 2010 ranged from 1.95 to 3.35. Individual TOC sample results for treated water ranged from ND to 1.6 mg/L and averaged 1.0 mg/L.

Arsenic:

In the Primary Standards Inorganic Chemicals section of the chart for Arsenic, surface water sample was None Detected (ND). For groundwater samples (23 total), the range was None Detected to 2.0 µg/L. The average for all groundwater sources based on 2010 analysis is less than the DLR of 2 µg/L, MCL = 10 µg/L.

- ***Health effects of Arsenic:*** While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The USEPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Barium:

In the Primary Standards Inorganic Chemicals section of the chart for Barium, surface water sample was ND. In the groundwater column, the range of barium is None Detected (ND) to 170 µg/L, which is well under the MCL of 1000 µg/L. Out of 23 wells tested, three wells exceeded the DLR for barium.

- ***Health effects of Barium:*** Some people who drink water containing barium in excess of the MCL over many years may experience an increase in blood pressure.

Fluoride:

Fluoride in all our water sources ranged from None Detected to 0.5 mg/L, average of surface water results was 0.2 mg/L and the groundwater average was 0.15 mg/L. MCL for fluoride is 2 mg/L and the DLR is 0.1 mg/L

- ***Health effects of Fluoride:*** Some people who drink water containing fluoride in excess of the federal MCL of 4 mg/L over many years may get bone disease, including pain and tenderness of the bones. Children who drink water containing fluoride in excess of the state MCL of 2 mg/L may get mottled teeth.

Nitrate:

In the Primary Standards Inorganic Chemicals section of the chart for Nitrate as (NO3), surface water sample was ND. In the groundwater column, the range of Nitrate is None Detected (ND) to 31.8 mg/L, and the average is 7.8 mg/L. The California Department of Public Health requires annual sampling if all results are less than 50% of the MCL. If the result from any one source is greater than 50% of the MCL, then sampling must be done quarterly at that source. The District samples all its wells on a quarterly basis (4 times a year) even when they test below 50% of the MCL. The numbers expressed on the chart are derived from quarterly sampling of all District wells, except those that are out of service.

- ***Health effects of Nitrate:*** Nitrate in drinking water at levels above 45 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a 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 advice from your health care provider. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

Gross Alpha Particle Activity:

Gross alpha particle activity is reported based on the new Radionuclide requirement that four consecutive quarters of samples from each source must be analyzed between January 2001 and December 2007. We have complied with this requirement at the end of 2006, a year early. The range of results from all our wells is ND – 6.12 pCi/L, and detection was below DLR for our treated surface water source. The average of all well samples was below the DLR of 3 pCi/L.

- ***Health effects of Gross Alpha Particle Activity:*** Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Information Continued on Next Page