Important Health Information



Meeting the Challenge

Рекеормер и 2015

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WATER TESTING

Please remember that we are always available to assist you, should you ever have any questions or concerns about your water.

been described as being corrosive; images of corroded batteries and warning labels on bottles of acids come to mind. But is corrosive water bad? Corrosive water can be defined as a condition of water

quality that will dissolve metals (iron, lead, copper, etc.) from metallic plumbing at an excessive rate. There are a few contributing factors but, generally speaking, corrosive water has a pH of less than 7; the lower the pH, the more acidic, or corrosive, the water becomes. (By this definition, many natural waterways throughout the country can be described as corrosive.) While all plumbing will be somewhat affected over time by the water it carries, corrosive water will damage plumbing much more rapidly than water with low corrosivity.

By itself, corrosive water is not a health concern; your morning glass of orange juice is considerably more

Failure in Flint

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Presented By

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The national news coverage of water conditions in Flint, Michigan, has created a great deal of confusion and consternation over the past year. The water there has

Community Participation

To The Last Drop

wet to very dry.

Vou are invited to attend and participate in our public I forum and voice your concerns about your drinking water. District Directors meet the first Tuesday of each month beginning at 7 p.m. at the District business office located at 8319 Lander Avenue, Hilmar, CA 95324. The agenda for meetings are posted at the office and online at www.hilmarcwd.org.

The National Oceanic and Atmospheric Administration

(NOAA) defines drought as a deficiency in

precipitation over an extended period of time, usually

a season or more, resulting in a water shortage causing

adverse impacts on vegetation, animals, and/or people.

Drought strikes in virtually all climate zones, from very

There are primarily three types of drought: Meteorological

Drought refers to the lack of precipitation, or the degree

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

indicate that water poses a health risk. The presence of contaminants does not necessarily contain at least small amounts of some contaminants. including bottled water, may reasonably be expected to the same protection for public health. Drinking water, for contaminants in bottled water that must provide systems. State Board regulations also establish limits certain contaminants in water provided by public water Board) prescribe regulations that limit the amount of and the State Water Resources Control Board (State U.S. Environmental Protection Agency (U.S. EPA) In order to ensure that tap water is safe to drink, the

:əbuləni Contaminants that may be present in source water

systems, agricultural livestock operations, and wildlife; that may come from sewage treatment plants, septic Microbial Contaminants, such as viruses and bacteria,

discharges, oil and gas production, mining, or farming; stormwater runoff, industrial or domestic wastewater that can be naturally occurring or can result from urban Inorganic Contaminants, such as salts and metals,

runoff, and residential uses; variety of sources such as agriculture, urban stormwater Pesticides and Herbicides, that may come from a

smətems; stormwater runoff, agricultural applications, and septic and which can also come from gas stations, urban of industrial processes and petroleum production, and volatile organic chemicals, which are by-products Organic Chemical Contaminants, including synthetic

and mining activities. occurring or can be the result of oil and gas production Radioactive Contaminants, that can be naturally

Safe Drinking Water Hotline at (800) 426-4791. health effects can be obtained by calling the U.S. EPA's More information about contaminants and potential

Hilmar County Water District 8319 Lander Avenue Hilmar, CA 95324



While your drinking water meets the federal and V 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 U.S. EPA 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.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/

CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791 or http://water.epa. gov/drink/hotline.



corrosive than the typical lake or river. What is of concern is that exposure in drinking water to elevated levels of the dissolved metals increases adverse health risks. And there lies the problem.

Public water systems are required to maintain their water at optimal conditions to prevent it from reaching corrosive levels. Rest assured that we routinely monitor our water to make sure that what happened in Flint never happens here. For more information on how corrosivity impacts water quality, download this informative pamphlet: http://goo.gl/KpTmXv.

Where Does My Water Come From?

Your water comes from two District owned wells located approximately one mile northeast of town. These wells average 330 feet in depth and have a sanitary seal the first 150 feet of the well column. In 2015, these wells provided 275 million gallons of water to the District's customers. The District broke ground in November on a third well that will help meet the demand for water while increasing overall system reliability.

of dryness and the duration of the dry period; Agricultural Drought refers to the agricultural impact of drought, focusing on precipitation shortages, soil water deficits, and reduced ground water or reservoir levels needed for irrigation; and Hydrological Drought, which pertains to drought that usually occurs following periods of extended precipitation shortfalls that can impact water supply (i.e., stream flow, reservoir and lake levels, ground water).

Drought is a temporary aberration from normal climatic conditions, thus it can vary significantly from one region to another. Although normally occurring, human factors, such as water demand, can exacerbate the duration and impact that drought has on a region. By following simple water conservation measures, you can help significantly reduce the lasting effects of extended drought.

To learn more about water conservation efforts, check out U.S. EPA's Water Conservation Tips for Residents at www. epa.gov/region1/eco/drinkwater/water_conservation_ residents.html.

QUESTIONS?

For more information about this report, or for any questions relating to your drinking water, please call Curtis Jorritsma at (209) 632-3522.



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Chemical fumigants	ND-0.009	≷00.0>	2015	(dqq) snsqorqoroldsirT-E,2,1

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DETECTED

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backing up into parks, yards, streets, and storm drains. These and form blockages in pipes, which can lead to wastewater the community. Over time, these greasy materials build up house as well as the walls of underground piping throughout system. FOG coats the inner walls of the plumbing in your are contributing to a costly problem in the sewer collection L or grease (FOG) down your sink (e.g., bacon grease), you Vou may not be aware of it, but every time you pour fat, oil,

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RANGE

in more frequent tank pump-outs and other expenses. discharged into septic systems and drain fields can also cause malfunctions, resulting drinking water. Exposure to untreated wastewater is a public health hazard. FOG backups allow FOG to contaminate local waters, including

and in the future: some tips that you and your family can follow to help maintain a well-run system now pipes, repair pump stations, and clean up costly and illegal wastewater spills. Here are Communities spend billions of dollars every year to unplug or replace grease-blocked

NEVER:

(JUNIT OF MEASURE)

UNREGULATED SUBSTANCES

SUBSTANCE

- Pour fats, oil, or grease down the house or storm drains.
- Dispose of food scraps by flushing them.
- Use the toilet as a waste basket.

SYAWAA

- can, and dispose of it with your garbage. • Scrape and collect fat, oil, and grease into a waste container such as an empty coffee
- Place food scraps in waste containers or garbage bags for disposal with solid wastes.
- and lotions, and personal hygiene products including nonbiodegradable wipes. • Place a wastebasket in each bathroom for solid wastes like disposable diapers, creams

Benetits of Chlorination

North America is chlorination. in drinking water treatment. By fat, the most common method of disinfection in by killing or inactivating them, is unquestionably the most important step isinfection, a chemical process used to control disease-causing microorganisms

vistory. of chlorine is probably the most significant public health advancement in human drinking water chlorination. In fact, the filtration of drinking water plus the use the U.S. Significant strides in public health are directly linked to the adoption of chlorination and filtration have helped to virtually eliminate these diseases in and hepatitis A killed thousands of U.S. residents annually. Drinking water (starting with Chicago and Jersey City in 1908), cholera, typhoid fever, dysentery, Before communities began routinely treating drinking water with chlorine

How chlorination works:

in drinking water to almost immeasurable levels. Potent Germicide Reduction in the level of many disease-causing microorganisms

smelling algae secretions, sulfides, and odors from decaying vegetation. Taste and Odor Reduction of many disagreeable tastes and odors like foul-

storage tanks. commonly grow in water supply reservoirs, on the walls of water mains, and in Biological Growth Elimination of slime bacteria, molds, and algae that

disinfection. It also helps to remove iron and manganese from raw water. and other nitrogenous compounds that have unpleasant tastes and hinder Chemical Removal of hydrogen sulfide (which has a rotten egg odor), ammonia,

Source Water Assessment

to contamination by the identified potential sources. A Source Water Assessment Plan (SWAP) is now available at our office. This plan is an assessment of the delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area, and a determination of the water supply's susceptibility

systems. A copy of the complete assessment is available for review at the District's office during business hours. According to the Source Water Assessment Plan, our water is considered most vulnerable to the effects of agricultural drainage, grazing, lagoon/liquid wastes, animal operations, and septic

> usually less harmful than inorganic forms. and hydrogen (organic arsenic). Organic forms are sulfur (inorganic arsenic); or combined with carbon with other elements such as oxygen, chlorine, and Arsenic is usually found in the environment combined mining, and smelting also contribute to arsenic releases. metals, and semiconductors. Agricultural applications, purposes, it is also used in paints, drugs, dyes, soaps, the arsenic used by industry is for wood preservative into the environment. Although about 90 percent of forest fires are natural sources that can release arsenic Volcanic activity, erosion of rocks and minerals, and And the security result from either natural or human activities. rsenic contamination of drinking water sources

> > Arsenic Regulation

can lead to unusually high levels of arsenic in water. unusually high natural levels of arsenic in rock, which in the water you drink. Some areas of the country have Thus, you normally take in small amounts of arsenic about 2 parts arsenic per billion parts of water (ppb). - Low levels of arsenic are naturally present in water -

to implement this new MCL in January 2006. certain forms of cancer. All water utilities were required linking high arsenic levels in drinking water with 10 ppb in response to new and compelling research Maximum Contaminant Level (MCL) from 50 to In January 2001, the U.S. EPA lowered the arsenic

visit the U.S. EPA's arsenic Web site at http://water.epa. the health benefits. For a more complete discussion procedure but well worth the expenditure considering Removing arsenic from drinking water is a costly

gov/lawsregs/rulesregs/sdwa/arsenic/index.cfm.

Water Main Flushing

through the mains. distribution mains by sending a rapid flow of water flushing is the process of cleaning the interior of water areas of the distribution mains over time. Water main quality; however, water quality can deteriorate in The water entering distribution mains is of very high businesses, and hydrants in your neighborhood. istribution mains (pipes) convey water to homes,

acceptable taste and smell. sufficient dissolved oxygen, disinfectant levels, and an water and ensures the presence of fresh water with within distribution mains. Flushing helps remove stale chlorine, contributing to the growth of microorganisms shield microorganisms from the disinfecting power of and color of the water. Additionally, sediments can pose health concerns, they can affect the taste, clarity, manganese. Although iron and manganese do not example, flushing removes sediments like iron and Flushing maintains water quality in several ways. For

prevent sediment accumulation in your hot water tank. full velocity before use and avoid using hot water, to tap, allow your cold water to run for a few minutes at for household uses at that time. If you do use the uncommon, is possible. You should avoid tap water some short-term deterioration of water quality, though During flushing operations in your neighborhood,

flushing schedule. would like more information on our water main Please contact us if you have any questions or if you

control microbial contaminants. the benefits of the use of disinfectants to risk to health. MRDLGs do not reflect which there is no known or expected

MA: Not applicable

.sisylens substance was not found by laboratory ND (Not detected): Indicates that the

US: No standard

Standard): MCLs and MRDLs for PDWS (Primary Drinking Water

requirements. requirements, and water treatment with their monitoring and reporting contaminants that affect health along

EPA. to health. PHGs are set by the California which there is no known or expected risk a contaminant in drinking water below PHG (Public Health Goal): The level of

micrograms per liter). substance per billion parts water (or ppb (parts per billion): One part

milligrams per liter). substance per million parts water (or ppm (parts per million): One part

gnidmul^q Lead in Home

testing methods, and steps on lead in drinking water, your water tested. Information water, you may wish to have concerned about lead in your as watering plants.) If you are another beneficial purpose, such the flushed water and reuse it for you do so, you may wish to collect water for drinking or cooking. (If seconds to 2 minutes before using exposure by flushing your tap for 30 can minimize the potential for lead been sitting for several hours, you components. When your water has of materials used in plumbing but cannot control the variety high-quality drinking water, We are responsible for providing service lines and home plumbing. and components associated with water is primarily from materials young children. Lead in drinking especially for pregnant women and can cause serious health problems, f present, elevated levels of lead



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stluse Results

us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, organic, or synthetic organic contaminants. The table below shows only those contaminants that were detected in the water. The state requires uring the past year, we have taken hundreds of water samples to determine the presence of any radioactive, biological, inorganic, volatile

the most recent sample data are included, along with the year in which the sample was taken.

		NOITVIOIN	JATOT\JA	DETECTED	bHG	IV	AAMPI ED	SUBSTANCE			
			SITES ABOVE	TNUOMA							
Tap water samples were collected for lead and copper analyses from sample sites throughout the community											
septic tanks and sewage; erosion of natural deposits											
Runoff and leaching from fertilizer use; leaching from	٥N	₽.9-2	2.7	SΨ	S₽	5102	(wdd)	Nitrate [as nitrate]			
אינט מאינט איינט	01	70.0 01.0	10.0	C[7]]	C[7]]	(107		(undd) ann an			
them to the period of the the transferring the term of the term of the transferring the term of term o	٩N	28 0-87 0	790	se) 7]	sc) 0 7]	5100		(mag) adirold			
and electronics production wastes											
Erosion of natural deposits; runoff from orchards; glass and electronics production wastes	٥N	2.11-0.2	≶8.8	₽00.0	10	5102		(dqq) sinserA			
TYPICAL SOURCE Erosion of natural deposits; runoff from orchards; glass and electronics production wastes	NOITAJOIV 0 ^V	<u>яриде</u> гом-нісн 5.0–11.2	DETECTED	0 [.] 00 . [мврге] (мсге) ыне	ז0 [שאסר] אכר	XEAR SAMPLED 2015	6	SUBSTANCE (UNIT OF MEASURE) Arsenic (ppb)			

TYPICAL SOURCE

of a drinking water disinfectant below Disinfectant Level Goal): The level MRDLG (Maximum Residual

control of microbial contaminants. addition of a disinfectant is necessary for water. There is convincing evidence that of a disinfectant allowed in drinking Disinfectant Level): The highest level MRDL (Maximum Residual MCLGs are set by the U.S. EPA. no known or expected risk to health. drinking water below which there is Goal): The level of a contaminant in MCLG (Maximum Contaminant Level

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

requirements that a water system must if exceeded, triggers treatment or other

concentration of a contaminant which,

AL (Regulatory Action Level): The

Definitions

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