Quality First

City of Livingston

Presented By

nce again, we are pleased to present our annual water quality report. As in years past, we are committed to delivering the bestquality drinking water possible. To that end, we remain vigilant in meeting the challenges of new regulations, source water protection, water conservation, and community outreach and education while continuing to serve the needs of all our water users. Thank you for allowing us the opportunity to serve you and your family.

We encourage you to share your thoughts with us on the information contained in this report. After all, well-informed customers are our best allies.

The City of Livingston currently utilizes local ground water as its sole source of supply. The City's municipal water system extracts its water supply from underground aquifers via ground water wells located throughout the City. The City's water system facilities include nine active ground water wells, a 1.0 million gallon (MG) potable water storage tank, and a distribution system. Water is conveyed from the wells to our customers via the distribution system, which consists of nearly 40 miles of pressurized pipes, ranging in size from 2 to 16 inches in diameter. For 2017, the City of Livingston delivered 2,037,492,241 gallons of water, with up to 215 million gallons in a single month, or more than 7 million gallons per day to approximately 3,100 residential, commercial, and industrial customers.

Where Does My Water Come From?

If present, elevated levels of lead can cause serious

Lhealth 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. We are responsible for

providing high-quality drinking water, but cannot



Substances That Could Be in Water

Water Conservation Tips

hard to conserve water. Here are a few tips:

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

of some contaminants. The presence of contaminants does reasonably be expected to contain at least small amounts health. Drinking water, including bottled water, may bottled water that provide the same protection for public California law also establish limits for contaminants in The U.S. Food and Drug Administration regulations and contaminants in water provided by public water systems. prescribe regulations that limit the amount of certain State Water Resources Control Board (State Board) Environmental Protection Agency (U.S. EPA) and the To ensure that tap water is safe to drink, the U.S.

Contaminants that may be present in source water include: not necessarily indicate that water poses a health risk.

systems, agricultural livestock operations, and wildlife; which 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 can be naturally occurring or can result from urban Inorganic Contaminants, such as salts and metals, which

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

runoff, agricultural applications, and septic systems; which can also come from gas stations, urban stormwater of industrial processes and petroleum production, and 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, which 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

City of Livingston 1416 "C" Street Livingston, CA 95334

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WATER TESTING

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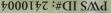
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ਇਸ ਦਾ ਅਨੁਵਾਦ ਕਰਾਉ ਹਤੱਵਪੂਰਣ ਹੈ । importante sobre su agua potable. Tradúzcalo Este informe contiene información muy



Community Participation

Vou are invited to participate in our public I forum and address the City Council about your concerns about drinking water. The City Council meets every first and third Tuesday of the month beginning at 7:00 p.m. in the City Council Chambers at 1416 "C" Street, Livingston, CA 95334. You may also visit the City of Livingston on the Internet at www.livingstoncity.com for more information, or contact City staff directly by phone at (209) 394-8044 x130.

Important Health Information

several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water

control the variety of materials used

in plumbing components. When

your water has been sitting for

Lead in Home Plumbing

for drinking or cooking. (If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.) 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 www.epa.gov/lead.

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 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.

Water treatment is a complex, time-consuming process.

a run for your money and load it to capacity.

gallons for every cycle, regardless of

how many dishes are loaded. So get

Automatic dishwashers use 15

- Turn off the tap when brushing your teeth.
- · Check every faucet in your home for leaks. Just a slow drip can waste 15 to 20 gallons a day. Fix it and you can save almost 6,000 gallons per year.

You can play a role in conserving water and saving yourself money in the process by becoming conscious

of the amount of water your household is using and by

looking for ways to use less whenever you can. It is not

- Check your toilets for leaks by putting a few drops of food coloring in the tank. Watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from an invisible toilet leak. Fix it and you save more than 30,000 gallons a year.
- Use your water meter to detect hidden leaks. Simply turn off all taps and water-using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.

QUESTIONS?

For more information about this report, or for any questions relating to your drinking water, please call the City of Livingston Water Division Superintendent, Mr. Tony Avina, at (209) 394-8044 x130, or City Manager, Mr. Jose Antonio Ramirez, at (209) 394-8041 x113.

milligrams per liter). ppt (parts per trillion): One part substance per trillion parts water (or	agricultural chemical factories; leaching from hazardous waste e solvent, paint and varnish remover, and degreasing agent; other compounds and pesticides						-10.0 10.0		9107	(dqq) əni	1,2,3-Trichloroprops	
ppm (parts per million parts water (or substance per million parts water (or				AUOS JADI	лаут на						SUBSTANCE (UNIT OF MEASURE)	
micrograms per liter).												
ppb (parts per billion parts water (or substance per billion parts water (or	Honui lio2	°N	1.2	2-1.0>	2.0	SN	I S		∠107		(UTV) vibidiuT	
by the California EPA.	Runoff/leaching from natural deposits	o _N	99	0E-4EI	782	SN	1 000,1	I	∠107	sbi	Total Dissolved Soli (ppm)	
below which there is no known or expected risk to health. PHGs are set	Runoff/leaching from natural deposits; industrial wastes	°N		[]-]	₽Į	SN			∠107		Sulfate	
of a contaminant in drinking water	Substances that form ions when in water; seawater influence	°N	879	312-5	166	SN	1 009'1	í 📝	∠107	(ms/Su) a	Specific Conductanc	
PHG (Public Health Goal): The leve	Leaching from natural deposits	°N	69	9-07>	۲2	SN	1 0S		201		Manganese (ppb)	
and reporting requirements, and water treatment requirements.	Runoff/leaching from natural deposits; seawater influence	°N	I	18-5	86	SN	1 00S		2012		(mqq) obiolity	
health along with their monitoring	TYPICAL SOURCE	I NOITAJO		LOW-HIG	ETECTED				AAAY SAMPLEI		SUBSTANCE (UNIT OF MEASURE)	
Water Standard): MCLs and MRDLs for contaminants that affec										REIVICES		
PDWS (Primary Drinking	industrial manufacturers; erosion of natural deposits	ц шоц										
	aal corrosion of household water plumbing systems; discharges	Interna	٥N	09	0/30	ς>	7	0.2	۶ī	5016	Lead (ppb)	
just noticeable to the average person. pCi/L (picouries per liter): A	aal corrosion of household plumbing systems; erosion of al deposits; leaching from wood preservatives		٥N	01	0/9	č0.0>	2	£.0	£.1	9107	Copper (ppm)	
Measurement of the clarity, or turbidity, of \mathcal{I} UTU i of water. Turbidity in excess of \mathcal{I} WTU i	AL SOURCE	ТҮРІСА	ΝΟΙΤΑΊΟΙΛ	LATOT\1		TECTED	G DE1	(MCFC bHg	٦A	AAay Sampled	SUBSTANCE (UNIT OF MEASURE)	
NTU (Nephelometric Turbidity Units	Tap water samples were collected for lead and copper analyses from sample sites throughout the community AMOUNT SITES ABOVE											
Ns: No standard	susadan mumuu la nasalit									lot bətəəllnə		
oldszilqqs 10N :AN	Erosion of natural deposits	٥N	6-	-1>	[>	£4.0	50 (2017	(ad)	Uranium (pCi/L)	
to control microbial contaminants.	By-product of drinking water disinfection	٥N	II	1-7	[>	٧N	08		201	(quu	Trihalomethanes] (F	
risk to health. MRDLGs do not reflec the benefits of the use of disinfectants	septic tanks and sewage; erosion of natural deposits			6- 4 .0> E								
which there is no known or expected	Runoff and leaching from fertilizer use; leaching from	٥N	6-4			10	10		2017	Nitrate [as nitrogen] (ppm)		
of a drinking water doal): The level	natural deposits			1								
MRDLG (Maximum Residual Disinfectant Level Goal): The level	wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of			I-I I							(qdd)	
control of microbial contaminants.	Discharge from electroplating factories, leather tanneries,	٥N	I-			20.0	10 (1		2014			
addition of a disinfectant is necessary fo	By-product of drinking water disinfection	٥N	7-7	<7 <7-7		٧N	09		∠107	Haloacetic Acids (ppb)		
water. There is convincing evidence tha											Activity (pCi/L)	
Disinfectant Level): The highest level of a disinfectant allowed in drinking	Erosion of natural deposits	٥N	9-	-&>	£>	(0)	ςι		2017	9	Gross Alpha Particl	
MRDL (Maximum Residual	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories	٥N	1.0-	-1.0>	1.0>	I	0.2		∠107		(mqq) 9bi1oul T	
risk to health. MCLGs are set by the U.S. EPA.	vineyards, tomatoes, and tree fruit											
which there is no known or expected	Banned nematocide that may still be present in soils due to runoff/leaching from former use on soybeans, cotton,	ONI	061		17>	/'T	007		/107	ansq	[DBCb] (bbt) Dibromochloroprol	
contaminant in drinking water below	auh slios ni tussan ad llits vom todt shivotomen honnog	٥N	001	-01>	12>	[(710			2107	oute	Difference	
MCLG (Maximum Contaminant Level Goal): The level of a	Drinking water disinfectant added for treatment	٥N	£.1-	-1.0>	1.0>	CI2)] [4 (92			∠107		(mqq) 9 (pm)	
are set to protect the odor, taste and appearance of drinking water.	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits	٥N	£.0-	-1.0>	I.0>	7	I		∠107		(mqq) muinsB	
feasible. Secondary MCLs (SMCLs)	electronics production wastes											
as close to the PHGs (or MCLGs) as	Erosion of natural deposits, runoff from orchards, glass and	°N		-7>	6	₹ • • • • • • • • • • • • •			2017		Arsenic (ppb)	
contaminant that is allowed in drinking water. Primary MCLs are set	TYPICAL SOURCE	NOITAJOI\			AMOUNT		MCL (N		AAAY SAMPLED		SUBSTANCE (UNIT OF MEASURE)	
MCL (Maximum Contaminant Level): The highest level of a										SIDNAIS		

whether the contaminants need to be regulated. Resources Control Board to determine where certain contaminants occur and ¹ Unregulated contaminant monitoring helps U.S. EPA and the State Water

nanograms per liter).

substance per trillion parts water (or



water infrastructure in the U.S.

annually on maintaining the public

The amount of money spent

NOITTIW water system. **300** receive water from a public The number of Americans who

BILLION

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BILLION nearly two miles. Vater found in a mine at a depth of The age in years of the world's oldest

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9.0-€0.0

LOW-HIGH

Source Water Assessment

UNREGULATED CONTAMINANT MONITORING RULE - PART 3 (UCMR3) 1

7017

2012

2014

7014

7014

2014

¥102

⊅107

SAMPLED

YEAR

63

991

06-07

842-901

housing - high density (>1 house/0.5 acres), septic systems - high density (>1/acre), apartments (berries, hops, mint, orchards, sod, greenhouses), fertilizer/pesticide/herbicide application, machine shops, wastewater treatment plants, hardware/lumber/parts stores, crops, irrigated detected in the water supply: parks, chemical/petroleum pipelines, lagoons/liquid wastes, sources are considered most vulnerable to the following activities associated with contaminants California Department of Public Health - Merced District in September 2002. The City's Drinking Water Source Assessment was completed for the City of Livingston wells by the

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DETECTED

TNUOMA

Naturally occurring

Salt present in the water and is generally naturally occurring



(dqq) muibeneV

(dqq) muinon?

Chlorate (ppb)

(JUNIT OF MEASURE)

SUBSTANCE

(mqq) muibo2

(mqq) esentration (ppm)

(dqq) munsbdyloM (mqq) [IstoT] muimordD

(dqq) ansqorqoroldoirT-£,2,1

- low density (<1/acre), wells - agricultural/irrigation, and agricultural drainage. contaminants: automobiles - gas stations, historic gas stations, dry cleaners, injection wells/dry wells/sumps, septic systems schools. The sources are also considered most vulnerable to the following activities not associated with any detected collection systems, automobile - body shops, automobile - repair shops, fleet/truck/bus terminals, RV/mini storage, and and condominiums, crops, non-irrigated (e.g., Christmas trees, grains, grass seeds, hay), sewer

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

Livingston, California 95334 or by phone at (209) 394-8044 during regular business hours. If you would like to review the Drinking Water Source Assessment, please feel free to contact our office at 1416 "C" Street,

the most recent sample data are included, along with the year in which the sample was taken. monitoring for certain substances less than once per year because the concentrations of these substances do not change frequently. In these cases, those substances that were detected; our goal is to keep all detects below their respective maximum allowed levels. The State recommends ur water is monitored for many different kinds of contaminants on a very strict sampling schedule. The information below represents only

.mergorq eich no noitemrofni 510m rof eu suspected to be in drinking water, to determine if the EPA needs to introduce new regulatory standards to improve drinking water quality. Contact our drinking water. UCMR3 benefits the environment and public health by providing the EPA with data on the occurrence of contaminants We participated in the 3rd stage of the EPA's Unregulated Contaminant Monitoring Rule (UCMR3) program by performing additional tests on

Definitions

wollof isum moisys. or other requirements that a water which, if exceeded, triggers treatment The concentration of a contaminant AL (Regulatory Action Level):

electrical conductivity of a solution. A unit expressing the amount of uS/cm (microsiemens per centimeter):

Test Results