APPENDIX F: CCR Certification Form (Suggested Format)

Consumer Confidence Report Certification Form

(to be submitted with a copy of the CCR)

(To certify electronic delivery of the CCR, use the certification form on the State Water Board's website at <u>http://www.swrcb.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml</u>)

Water System Name:	City of Livingston
Water System Number:	2410004

The water system named above hereby certifies that its Consumer Confidence Report was distributed on July 1, 2022 to customers (and appropriate notices of availability have been given). Further, the system certifies that the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the State Water Resources Control Board, Division of Drinking Water.

Certified by: Jared Steeley	
Name: Jared Steeley	
Signature:	
Signature: Title: C.D.O.	
Phone number: 209-620-1662	
Date: 10/19/22	

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

CCR was distributed by mail or other direct delivery methods. Specify other direct delivery methods used:

Good faith" efforts were used to reach non-bill paying consumers. Those efforts included the following methods:

Posting the CCR on the Internet at <u>www.livingstoncity.com</u>

Mailing the CCR to postal patrons within the service area (attach zip codes used)

Advertising the availability of the CCR in news media (attach copy of press release)

Publication of the CCR in a local newspaper of general circulation (attach a copy of the published notice, including name of newspaper and date published)

Posted the CCR in public places (attach a list of locations)

Delivery of multiple copies of CCR to single-billed addresses serving several persons, such as apartments, businesses, and schools

Delivery to community organizations (attach a list of organizations)

Other (attach a list of other methods used)

For systems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at the following address:

For investor-owned utilities: Delivered the CCR to the California Public Utilities Commission

This form is provided as a convenience for use to meet the certification requirement of the California Code of Regulations, section 64483(c)

2021	Consumer	Confidence	Report
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Water System Name: City of Livingston	Report Date: 06/20/22						
We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2021 and may include earlier monitoring data.							
	ıy importante sobre su agua para beber. n (209) 394-8044 para asistirlo en español.						
Type of water source(s) in use: Groundwater Wells							
Name & general location of source(s): Well #8, #9, #11, #12, #1	3, #14, #15, #16, and #17						
Drinking Water Source Assessment information: Completed in	September of 2002 - see last page						
Time and place of regularly scheduled board meetings for public partic	*						
First and third Tuesday of each month at 7:00pm at 1416 C St. Livings	ston, CA						
For more information, contact: Department of Public Works	(209) 394-8044						
TERMS USED I	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).	 Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements. Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels. Treatment Technique (TT): A required process intended to reduce 						
Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.	the level of a contaminant in drinking water. Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.						
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.	Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.ND: not detectable at testing limit						
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	 ppm: parts per million or milligrams per liter (mg/L) ppb: parts per billion or micrograms per liter (µg/L) ppt: palis per trillion or nanograms per liter (ng/L) 						
benefits of the use of disinfectants to control microbial contaminants.	ppq: parts per quadrillion or picogram per liter (pg/L) pCi/L: picocuries per liter (a measure of radiation)						

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 anin1als 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 that 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 and petroleum production, and can also come from gas stations, urban st01mwater runoff, agricultural application, and septic systems.

Radioactive contaminants that 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 U.S. EPA and the State Water Resources Control Board (State Water Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Water Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

*Any violation of an MCL, MRDL, AL, or TT is asterisked. Additional informatio11 regarding the violation is provided later in this report.

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
Total Colifo1m Bacteria (State Total Coliform Rule)	(In a mo.) 0	0	l positive monthly sample (a)	0	Naturally present in the environment
Fecal Coliform or <i>E.</i> <i>coli</i> (State Total Coliform Rule)	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform Or <i>E. coli</i>	None	Human and animal fecal waste
<i>E. coli</i> (Federal Revised Total Coliform Rule)	(In the year) 0	0	(b)	0	Human and animal fecal waste

(b) Routine and repeat samples are total coliform-positive and either is *E*. coli-positive or system fails to take repeat samples following *E*. coli-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E*. *coli*.

TABLE 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper (and reporting units)	Sample Date	No. of Samples Collected	90 th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	2019	30	< 5	0	15	0.2	4	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	2019	30	0.06	0	1.3	0.3	0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS									
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant			
Sodium (ppm)	2019-2020	61	31 - 90	None	None	Salt present in the water and is generally naturally occurring			
Hardness (ppm)	2019-2020	99	47 - 248	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, naturally occurring			

TABLE 4 - DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD									
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant			
Nitrate as Nitrogen (ppm)	2021	3	0.6-8.9	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage;			
pH (Well 13) pH units	2021	8.1	0-14	0	N/A	erosion of natural deposits			
Gross Alpha (pCi/1)	2020	2	< 1 - 6	15	(0)	Erosion of natural deposits			
Uranium (pCi/l)	2017	6	4-9	20	0.4	Erosion of natural deposits			
Arsenic (ppb) - At the Wells	2021	9	3.2-26	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production			
Zinc (Well 13) mg/l	2021	ND	0-1.0	0.05	0.023	wastes			
Arsenic (ppb) - After Treatment	2021	4.7	0 – 9.4	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes			
Barium (ppm) Well 13	2019-2020	< 0.1	< 0.1	1	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits			
Nitrite (ppm)	2021	0.1	0 – 1.9	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories			
Dibromochloro - propane [DBCP] (ppt)	2020	13	< 10 - 80	200	1.7	Banned nematocide that may still be present in soils due to leaching from former crop use			
1,2,3-Trichloropropane (ppb) - At all of the Wells	2021	0.2	0.04- 0.50	0.005	0.0007	Discharge from industrial and agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.			
1,2,3-Trichloropropane (ppb) - At Well #8	2021	0.21*	0.2 - 0.72	0.005	0.0007	Discharge from industrial and agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.			
1,2,3-Trichloropropane (ppb) - At Well #8 - After Treatment	2021	< 0.005	0-0.0036	0.005	0.0007	Discharge from industrial and agricultural chemical factories; leaching from hazardous waste sites; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.			
TABLE 5 - DETE	CTION OF C	CONTAMI	NANTS WITI	H A <u>SECO</u>	<u>NDARY</u> DR	INKING WATER STANDARD			
Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant			
Total Dissolved Solids (ppm) Well 13	2021	240	240	1000	N/A	Runoff/leaching from natural deposits			
Thallium (Well 13) ug/l Antimony (Well 13) ug/l	2021 2021	ND ND	1 0-2	0.45 0.91	N/A N/A	Runoff/leaching from natural deposits Runoff/leaching from natural deposits			
Barium (Well 13) mg/l	2021	ND	0.05	0.023	N/A	Runoff/leaching from natural deposits			
Beryllium (Well 13) ug/l	2021	ND	1	0.45	N/A	Runoff/leaching from natural deposits			
Cadmium (Well 13) ug/l	2021	ND	1	0.45	N/A	Runoff/leaching from natural deposits			
Calcium (Well 13) mg/l	2021	16	0.1	0.046	N/A N/A	Runoff/leaching from natural deposits			
Color (Well 13) CU	2021	ND	5	5	N/A N/A	Runoff/leaching from natural deposits			
Iron (Well 13) mg/l	2021	ND	0.03	0.042	N/A N/A	Runoff/leaching from natural deposits			
Specific Conductance	2021	360	290-430	1600	N/A	Substances that form ions when in water;			
(umho/cm)	2021		0.10	4.5	N T/ A	seawater influence			
Silver (Well 13) ug/l Chloride (ppm)	2021 2021	ND 36	0-10 7 - 81	4.5 500	N/A N/A	Runoff/leaching from natural deposits Runoff/leaching from natural deposits;			
EPA 524.2 (Well 8,13 & 17)	2021	0.083-0.5	0-1.0	0.5	N/A	seawater influence Leaching from natural deposits			

Sulfate (ppm)	2020	30	9 - 100	500	N/A	Runoff/leaching from natural deposits; industrial wastes	
Perchlorate (Well 14)	2021	ND	0-10	2	N/A	industrial wastes	
Color (unit)	2021	0	0	15	N/A	Naturally-occurring organic materials	
Alkalinity (Well 13) mg/l	2021	110	0-250	3.0	N/A	Leaching from natural deposits	
Turbidity (NTU)	2021	0.3	0.15 - 0.5	5	N/A	Soil runoff	
Aluminum (Well 13) mg/l	2021	ND	0-1.0	0.05	N/A	Leaching from natural deposits	
Manganese (ppb) - At all of the Wells	2021	.044	.032056	50	N/A	Leaching from natural deposits	
Manganese (ppb) -At Well #17	2021	.0465	.037056	50	N/A	Leaching from natural deposits	
Manganese (ppb) - At Well #17 - After Treatment	2021	0	0	50	N/A	Leaching from natural deposits	
		TABLE 6	- DETECTIO CONTAM			L	
Chemical or Constituent (and reporting units)	Sample Date	Range of Detection			Health Effects Language		
Distribution System Total Trihalomethanes (ppb)	2021	1-4.3	80	Some people who drink water containing trihalomethanes in ex MCL over many years may experience liver, kidney, or central system problems, and may have an increased risk of getting can		s may experience liver, kidney, or central nervous	
Distribution System Chlorine Residual (ppm)	2021	0.2 - 2.0 (4)		could drink	l experience irrit	water containing chlorine well in excess of the MRDL ating effects to their eyes and nose. Some people who ing chlorine well in excess of the MRDL could iscomfort.	

Additional General Information on Drinking Water

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA'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. U.S. EPA/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.

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 Livingston 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 water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/lead.

Nitrate as Nitrogen in drinking water at levels above 10 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 serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate-N levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Summary Information for Violation of an MCL, MRDL, AL, TT, or Monitoring and Reporting Requirements

In 2021, arsenic in the drinking water from well #13, well#16, and well #17 exceeded the maximum allowable limit of 10 parts per billion (ppb). The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The U.S. Environmental Protection Agency 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 other circulatory problems. Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.

The City of Livingston operates water treatment at well #13, well #16, and well #17. Water testing after the treatment at these wells confirms that the arsenic is effectively being lowered to within acceptable levels.

In 2021, 1,2,3-Trichloropropane (1,2,3-TCP) was detected in the drinking water from all nine wells above the 0.005 parts per billion (ppb) maximum allowable limit (MCL). 1,2,3-TCP is an organic chemical found in various industrial and pesticide uses. Additional testing is required to determine what corrective action will be required if it continues to be detected above the MCL. Some people who drink water containing 1,2,3-TCP in excess of the MCL over many years may have an increased risk of getting cancer, based on studies in laboratory animals.

The City of Livingston operates water treatment at well #8. Water testing after the treatment at well #8 confirms that 1,2,3-TCP is effectively being lowered to within acceptable levels.

In 2021 The City of Livingston received a violation from the Division of Drinking Water involving two missed <u>NITRATE</u> samples from Well 12 & Well 14. This was an inadvertent oversight by Water Operations Staff. We have since sampled the wells for the annual requirement and were notified via laboratory analyses that the wells are not an imminent threat to the drinking water supplied.

In 2020 the City started the Well #14 & Well #16 Arsenic and TCP Renovation project. The Project consisted of adding a fourth vessel to remove Arsenic and installing eight granular activated carbon vessels to remove TCP from Well #14 and Well #16. The Arsenic renovation is complete and the TCP project was online by August 2021.

In 2021, manganese was detected at well #17 above the allowable limit. In 2019, color was detected at well #15 above the allowable limit. The State has established the maximum allowable limits for manganese and color as secondary limits, not as primary limits. These secondary MCLs are set to protect you from unpleasant aesthetic affects such as color, taste, odor, and the staining of plumbing fixtures (e.g., tubs and sinks), and clothing while washing. A violation of these MCLs do not pose a risk to public health.

The City of Livingston operates water treatment at well #17. Water testing after the treatment at well #17 confirms that manganese/color is effectively being lowered to within acceptable levels.

Vulnerability Assessment Summary

A Drinking Water Source Assessment was completed for the City of Livingston wells by the California Department of Public Health -Merced District in September 2002. The City's sources are considered most vulnerable to the following activities associated with contaminants detected in the water supply: parks, chemical/petroleum pipelines, lagoons/liquid wastes, machine shops, wastewater treatment plants, hardware/lumber/parts stores, crops, irrigated (berries, hops, mint, orchards, sod, greenhouses), fertilizer/pesticide/herbicide application, housing - high density(>1 house/0.5 acres), septic systems - high density(>1/acre), apartments and condominiums, crops, non-irrigated (e.g., Christmas trees, grains, grass seeds, hay), sewer collection systems, automobile - body shops, automobile - repair shops, fleet/truck/bus terminals, RV/mini storage, and schools.

The sources are also considered most vulnerable to the following activities not associated with any detected contaminants: automobiles - gas stations, historic gas stations, dry cleaners, injection wells/dry wells/sumps, septic systems - low density (<1/acre), wells - agricultural/irrigation, agricultural drainage.

A copy of the Drinking Water Source Assessment is 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 to contamination by the identified potential sources.

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