2017 Consumer Confidence Report

water System Name:	City of Escalo	n Rej	port Date: June 11, 2018
U	1 0	1 ,	e and federal regulations. This report show. 7 and may include earlier monitoring data.
Este informe contiene entienda bien.	información mu	y importante sobre su agua potab	le. Tradúzcalo ó hable con alguien que lo
Type of water source(s)) in use: Groun	ıdwater	
Name & general location	on of source(s):	Well 3A south, Well 9 northeast, W	Vell 10 east
Drinking Water Source	Assessment info	rmation: A source assessment was	completed in 1999, see page 4.
Time and place of regu	larly scheduled be	oard meetings for public participation	n: City Council meets on the 1 st and 3 rd
Mondays of the month information at (209) 69	•	all, 2060 Mc Henry Ave. Contact the	e Deputy City Clerks' office for agenda
For more information.	contact: Matt M	organ, Chief Water System Oper.	Phone: (209) 691-7470

TERMS 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 (U.S. EPA).

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.

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.

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 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.

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (µg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

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 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 storm water 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 storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water 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 Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations 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 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 AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA					
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.)	0	1 positive monthly sample	0	Naturally present in the
(state Total Coliform Rule)	<u>0</u>				environment
Fecal Coliform or E. coli	(In the year)	0	A routine sample and a		Human and animal fecal waste
(state Total Coliform Rule)	0		repeat sample are total		
			coliform positive, and one		
			of these is also fecal		
			coliform or <i>E. coli</i> positive		
E. coli	(In the year)	0	(a)	0	Human and animal fecal waste
(federal Revised Total	0				
Coliform Rule)					

(a) 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 (complete if lead or copper detected in the last sample set)	Sample Date	No. of samples collected	90 th percenti le level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	7 / 2017	20	ND	1	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	7 / 2017	20	0.059	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

	TABLE 3 –	SAMPLING R	ESULTS FOR S	ODIUM A	ND HARDN	ESS		
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant		
Sodium (ppm) Hardness (ppm)	2016	17 63.7	17 - 20 63.7 - 122	none	none	Salt present in the water and is generally naturally occurring Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring		
TABLE 4 – DE	TECTION OF	CONTAMINA	NTS WITH A P	RIMARY I	DRINKING '	WATER STANDARD		
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant		
Arsenic (ppb)	2016	3	3	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronic production.		
Barium (ppm)	2016	0.0707	.0707-0.105	1.0	2	Discharge from oil drilling wastes and metal refineries; erosion of natural deposits.		
Chromium (ppb)	2016	5	4-5	50	(100)	Discharge from steel and pulp mills and chrome plating; Erosion from natural deposits.		
Chlorine (ppm) Sampled from distribution system	2017	0.73	0.37-1.47	[4]	[4]	Drinking water disinfectant added for treatment.		
Fluoride (ppm)	2016	0.2	0.2	2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum discharges.		
Nitrate (ppm)	2017	4.78	4.1-5.4	10	10	Runoff and leaching from fertilizer use; leaching from septic tank and sewage; erosion from natural deposits.		
TABLE 5 – DET	ECTION OF C	ONTAMINAN	TS WITH A SEC	CONDARY	DRINKING	G WATER STANDARD		
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant		
Chloride (ppm)	2016	8	8	500	-	Runoff/leaching form natural deposits; seawater influence		
Specific Conductance (uS/cm)	2016	231	231-331	1600	-	Substances that form ions when in water; seawater influences		
Sulfate (ppm)	2016	6	3-9	500	-	Runoff/leaching from natural deposits; industrial wastes		
Total Dissolved Solids (ppm)	2016	210	170 - 230	1000		Runoff/leaching from natural deposits.		
TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS								
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	ation Level	Health Effects Language		
Vanadium (ppb)	2016	28	24-28	5	0	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.		

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 (1-800-426-4791).

Lead-Specific Language for Community Water Systems: 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 Escalon 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. Optional: 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 (1-800-426-4701) or at http://www.epa.gov/lead.

The State allows us to monitor for some contaminants less than once a year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than a year old.

Nitrate 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 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.

Drinking Water Source Assessment

An assessment of drinking water sources for the City was completed in February 1999. The sources are considered most vulnerable to following activities associated with contaminants detected in the water supply; septic systems in high densities, (<1 acre) fertilizers, pesticides/herbicides application, and pesticide/fertilizer/petroleum storage and transfer areas. In addition, the sources are considered most vulnerable to these activities: known contaminant plumes, confirmed leaking underground storage tanks, automobile gas stations, historic gas stations, historic waste dumps/landfills, chemical/petroleum processing/storage and metal plating/finishing/fabrication. A copy of the assessment is available at the City of Escalon, Public Works Department, 2103 Main Street, Escalon, CA. 95320 or contact Matt Morgan at (209) 691-7470 or at the State Water Resources Control Board, Department of Drinking Water, 31 East Channel Street, Room 270, Stockton, CA.95202 or call (209)948-7696.