2017 Consumer Confidence Report

Water System Name: <u>Heesedale Mutual Welter Crapport Date:</u> 9/27/18
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, 2017 and may include earlier monitoring data.
Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.
Type of water source(s) in use: $\dot{U} - e \int$
Name & general location of source(s): Reeschale Mutual Wuter Company Float E. Ave. J
Lanc, Ca. 93535
Drinking Water Source Assessment information:
Time and place of regularly scheduled board meetings for public participation: 44609 Stoth St & Lancaste (A 93535 Anyweekend in March - July
For more information, contact: Patricia Parker Phone: (66) 458-5091

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 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater 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.

Microbiological Contaminants (complete if bacteria detected)	Highest No.	No. of Months in Violation	ING THE DETECTION OF	MCLG	Typical Source of Bacteria
Total Coliform Bacteria (state Total Coliform Rule)	(In a mo.)	0	1 positive monthly sample	0	Naturally present in the environment
Fecal Coliform or E. coli (state Total Coliform Rule)	(In the year)	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or E. colipositive		Human and animal fecal wast
E. coli (federal Revised Total Coliform Rule)	(In the year)	0	(a)	0	Human and animal fecal wast

(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	– SAMPL	ING RES	ULTS SHO	WING THE	DETE	CTION	OF LEAD AND	COPPER
Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of Samples Collecte d	90th Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of
Connor (nam)	N/4				15	0.2		Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	NA			•	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

Chemical or Constituent	TABLE 3	<u> </u>		·		
(and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminan
Sodium (ppm)	-			none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)				none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4 – DET	ECTION O	F CONTAMIN	ANTS WITH A	PRIMARY	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
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TABLE 5 – DETE	CTION OF	CONTAMINA	NTS WITH A SI	FCONDAD	V DDINIVINI	
TABLE 5 – DETE Chemical or Constituent (and reporting units)	CTION OF Sample Date	CONTAMINA Level Detected	NTS WITH A S Range of Detections	ECONDAR' MCL	Y DRINKIN PHG (MCLG)	G WATER STANDARD Typical Source of Contaminant
Chemical or Constituent	Sample	Level	Range of		PHG	
Chemical or Constituent	Sample Date	Level Detected	Range of	MCL	PHG (MCLG)	Typical Source of Contaminant

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. [INSERT NAME OF UTILITY] 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 (1-800-426-4791) or at http://www.epa.gov/lead.

For Systems Providing Surface Water as a Source of Drinking Water

TABLE 8 - SAMPLING RESULTS SHO	WING TREATMENT OF SURFACE WATER SOURCES
Treatment Technique (a) (Type of approved filtration technology used)	
Turbidity Performance Standards (b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 - Be less than or equal to NTU in 95% of measurements in a month. 2 - Not exceed NTU for more than eight consecutive hours. 3 - Not exceed NTU at any time.
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.	
Highest single turbidity measurement during the year	- · · · · · · · · · · · · · · · · · · ·
Number of violations of any surface water treatment requirements	

(a) A required process intended to reduce the level of a contaminant in drinking water.

Summary Information for Violation of a Surface Water TT

VIOLATI	ON OF A SURFACE	WATER TT	
Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
	······································		
	Explanation	Explanation Duration	the Violation

	Summary Information for Operating Under a Variance or Exemption
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Summary Information for Federal Revised Total Coliform Rule Level 1 and Level 2 Assessment Requirements

Level 1 or Level 2 Assessment Requirement not Due to an E. coli MCL Violation

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

⁽b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

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During the past year we were required to conduct [INSERT NUMBER OF LEVEL 1 ASSESSMENTS] Level 1 assessment(s). [INSERT NUMBER OF LEVEL 1 ASSESSMENTS] Level 1 assessment(s) were completed. In addition, we were required to take [INSERT NUMBER OF CORRECTIVE ACTIONS] corrective actions and we completed [INSERT NUMBER OF CORRECTIVE ACTIONS] of these actions.
During the past year [INSERT NUMBER OF LEVEL 2 ASSESSMENTS] Level 2 assessments were required to be completed for our water system. [INSERT NUMBER OF LEVEL 2 ASSESSMENTS] Level 2 assessments were completed. In addition, we were required to take [INSERT NUMBER OF CORRECTIVE ACTIONS] corrective actions and we completed [INSERT NUMBER OF CORRECTIVE ACTIONS] of these actions.
Level 2 Assessment Requirement Due to an E. coli MCL Violation
E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised mmune systems. We found E. coli bacteria, indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) identify problems and to correct any problems hat were found during these assessments.
We were required to complete a Level 2 assessment because we found <i>E. coli</i> in our water system. In addition, we were equired to take [INSERT NUMBER OF CORRECTIVE ACTIONS] corrective actions and we completed [INSERT NUMBER OF CORRECTIVE ACTIONS] of these actions.

Regulated Contaminants with PRIMARY DRINKING WATER STANDARDS

	Unit	MCL	PHG		
Contaminant	Measure -ment	(AL) [MRDL] TT, as noted	(MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Microbiological Contamina	ants				
Total Coliform Bacteria	MCL:		(0)	Naturally present in the environment	Coliforms are bacteria that are naturally present in the
(state Total Coliform Rule)	For systems	For systems that collect less	, \		environment and are used as an indicator that other
	than 40 sam 1 positive me	than 40 samples per month: 1 positive monthly sample	<u>.</u>		potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a
	For systems	For systems that collect 40			
	or more sam	or more samples per month:			
	positive				
coliform and E	MCL:		(0)	Human and animal fecal waste	Fecal coliforms and E. coli are bacteria whose presence
(State Fotal Coliform Rule)	A routine san	A routine sample and a repeat			indicates that the water may be contaminated with
	sample are total coliform	tal coliform			human or animal wastes. Microbes in these wastes can
	positive, and	positive, and one of these is			O
	positive	positive			a special health risk for infants, young children, some of
					the elderly, and people with severely compromised
Total Coliform Bacteria	•	TT	n/a	Naturally present in the environment	Coliforms are hacteria that are naturally present in the
(federal Revised Total Coliform	Ŧ		•		environment and are used as an indicator that other,
Kule)					potentially harmful, waterborne pathogens may be
	<u>;</u>				present or that a potential pathway exists through which
	きない、				contamination may enter the drinking water distribution
					for notantial analytication in traction and the need to look
		••••	•		When this occurs are required to conduct distribution.
	_				accessment(c) to identify problems and to conduct
					problems that were found during these assessments.

	Unit Measure -ment	MCL (AL) [MRDL] TT, as noted	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
E. coli (federal Revised Total Coliform Rule)	*	See Footnote (a)	(0)	Human and animal fecal waste	E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and
					people with severely-compromised immune systems.
					For the consumer confidence report, if a water system detects E. coli and has violated the E. coli MCL, the water system shall include the following statements, as appropriate.
					We had an <i>E. coli</i> -positive repeat sample following a total coliform-positive routine sample.
					• We had a total coliform-positive repeat sample following an <i>E. coli</i> -positive routine sample.
					We failed to take all required repeat samples following an E. coli-positive routine sample.
					• We failed to test for <i>E. coli</i> when any re repeat sample tests positive for total coliform.
					If the E. coli MCL was not violated, the water system may include a statement that explains that although E. coli was detected, the water system is not in violation of the E. coli MCL.
ral Revised Total Coliform ral Revised Total Coliform	total coliform-positive ve repeat sample for E	and col.	is is	Human and animal fecal waste	E. coli are bacteria whose presence water may be contaminated with h wastes. Human pathogens in these short-term effects, such as diarrhea headaches, or other symptoms. The health risk for infants, young child people with severely-compromised for the consumer confidence report detects E. coli and has violated the water system shall include the folloappropriate. • We had an E. coli-positive routing a total coliform-positive repeat total coliform-positive routing an E. coli-positive routing and E. coli-positive for total coli-positive for total coli-positive for total coli-positive for total colipositive routing E. coli was detected, the water syste of the E. coli MCL. repeat samples following E. coli-positive routing E. coli-positive routing E. coli-positive routing E. coli-positive routing E. coli was detected, the water syste of the E. coli mCL.

of Contam fecal waste fecal waste	Contaminant cal waste cal waste

Contaminant	Unit Measure -ment	MCL (AL) [MRDL] TT, as noted	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Radioactive Contaminants					
Gross Beta Particle Activity	pCi/L	50 (b)	(0)	Decay of natural and man-made deposits	Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.
(b) Effective 6/11/2006, the gross level.	beta particle	activity MCL is 4 n	millirems/year a	annual dose equivalent to the total body o	
Strontium-90	pCi/L	&	0.35	Decay of natural and man-made deposit	Some people who drink water containing strontium-90 in excess of the MCL over many years may have an increased risk of getting cancer.
Tritium	pCi/L	20,000	400	Decay of natural and man-made deposits	Some people who drink water containing tritium in excess of the MCL over many years may have an increased risk of getting cancer.
Gross Alpha Particle Activity	pCi/L	15	(0)	Erosion of natural deposits	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.
Combined Radium 226 & 228	pCi/L	5	(0) ^(c)	Erosion of natural deposits	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.
	pCi/L	5	п/а	Erosion of natural deposits	Some people who drink water containing radium 223, 224, or 226 in excess of the MCL over many years may have an increased risk of getting cancer.
orting results for Ra-226	and Ra-228 as	individual constituents,	the PHG	is 0.05 pCi/L for Ra-226 and 0.019 pCi/L	/L for Ra-228.
Uranium	pCi/L	20	0.43	Erosion of natural deposits	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.
					problems or an increased risk of ge

	II	MCL			
Contaminant	Measure -ment	(AL) [MRDL] TT, as noted	(MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Inorganic Contaminants					
Aluminum	ppm	1	0.6	Erosion of natural deposits; residue	Some people who drink water containing aluminum in
					many years may experience al tract effects.
Antimony	ppb	6	j1	Discharge from petroleum refineries; fire retardants; ceramics; electronics;	Some people who drink water containing antimony in excess of the MCL over many years may experience
				solder	increases in blood cholesterol and decreases in blood sugar.
Arsenic	ddd	10	0.004	Erosion of natural deposits; runoff	Some people who drink water containing arsenic in
				ss and ele	excess of the MCL over many years may experience
				production wastes	skin damage or circulatory system problems, and may have an increased risk of getting cancer.
Asbestos	MFL	7	7	Internal corrosion of asbestos	Some people who drink water containing asbestos in
				natural deposits	increased risk of developing benign intestinal polyps.
Barium	ppm	1	2	Discharge of oil drilling wastes and	Some people who drink water containing barium in
				natural deposits	increase in blood pressure.
Beryllium	ppb	4	1	Discharge from metal refineries,	Some people who drink water containing beryllium in
				aerospace, and defense industries	many years may
Cadmium	dqq	5	0.04	Internal corrosion of galvanized	Some people who drink water containing cadmium in
	···			pipes; erosion of natural deposits;	excess of the MCL over many years may experience
				industrial chemical factories, and	
				metal refineries; runoff from waste batteries and paints	
Chromium	ppb	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of	Some people who use water containing chromium in excess of the MCL over many years may experience
Copper	ppm	(AL=1.3)	0.3	Internal corrosion of household	Copper is an essential nutrient, but some people who
	>			plumbing systems; erosion of natural denosits: leaching from wood	in excess of the a
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	!	experience gastrointestinal distress. Some people who
	·				fer liver or kidn s Disease should
					their personal doctor.

Contaminant	Unit Measure -ment	MCL (AL) [MRDL] TT, as noted	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Cyanide	þþb	150	150	Discharge from steel/metal, plastic and fertilizer factories	Some people who drink water containing cyanide in excess of the MCL over many years may experience nerve damage or thyroid problems.
Fluoride	ppm	2.0		Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	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.
Hexavalent Chromium ¹	þþb	1+4	0.02	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits.	Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer.
Lead	фф	(AL=15)	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits	Infants and children who drink water containing lead in excess of the action level may experience delays in their physical or mental development. Children may show slight deficits in attention span and learning abilities. Adults who drink this water over many years may develop kidney problems or high blood pressure.
Mercury (inorganic)	ppb	2	1.2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and cropland	
Nickel	ppb	100	12	Erosion of natural deposits; discharge from metal factories	Some people who drink water containing nickel in excess of the MCL over many years may experience liver and heart effects.
Nitrate (as nitrogen, N)	ppm	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.

¹ There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017. Refer to Attachment 3. SWS CCR Forms & Instructions

CCR Instructions – Attachments 1 to 6

		MCL	7117		
Contaminant	Measure -ment	(AL) [MRDL] TT, as noted	(MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Nitrite (as nitrogen, N)	ppm		,	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits	Infants below the age of six months who drink water containing nitrite in excess of the MCL may quickly become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blueness of the skin.
Perchlorate	þþ	6		Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts.	Perchlorate has been shown to interfere with uptake of iodide by the thyroid gland, and to thereby reduce the production of thyroid hormones, leading to adverse affects associated with inadequate hormone levels. Thyroid hormones are needed for normal prenatal growth and development of the fetus, as well as for normal growth and development in the infant and child. In adults, thyroid hormones are needed for normal metabolism and mental function.
Selenium	qdď	50	30	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)	Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years may experience hair or fingernail losses, numbness in fingers or toes, or circulation system problems.
Thallium	ppb	2	0.1	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories	Some people who drink water containing thallium in excess of the MCL over many years may experience hair loss, changes in their blood, or kidney, intestinal, or liver problems.
Synthetic Organic Contam	inants	including Pesticides	and Herbicides	ides	
2,4-D	ppb	70	20	Runoff from herbicide used on row crops, range land, lawns, and aquatic weeds	Some people who use water containing the weed killer 2,4-D in excess of the MCL over many years may experience kidney, liver, or adrenal gland problems.
2,4,5-TP (Silvex)	ppb	50	3	Residue of banned herbicide	Some people who drink water containing Silvex in excess of the MCL over many years may experience liver problems.
Acrylamide		TT	(0)	Added to water during sewage/wastewater treatment	Some people who drink water containing high levels of acrylamide over a long period of time may experience nervous system or blood problems, and may have an increased risk of getting cancer.

Contaminant Alachlor Atrazine Bentazon Benzo(a)pyrene (PAH)	Unit Measure -ment ppb ppb	MCL (AL) [MRDL] TT, as noted 2	PHG (MCLG) [MRDLG] 0.15	Typical Source of Contaminant Runoff from herbicide used on row crops Runoff from herbicide used on row crops and along railroad and highway right-of-ways Runoff/leaching from herbicide used on beans, peppers, corn, peanuts, rice, and ornamental grasses Leaching from linings of water	Health Effects Language Some people who use water containing alachlor in excess of the MCL over many years may experience eye, liver, kidney, or spleen problems, or experience anemia, and may have an increased risk of getting cancer. Some people who use water containing atrazine in excess of the MCL over many years may experience cardiovascular system problems or reproductive difficulties. Some people who drink water containing bentazon in excess of the MCL over many year may experience prostate and gastrointestinal effects.
	þþb	18	200	nuts	Some people who drink water containing bentazon in excess of the MCL over many year may experience prostate and gastrointestinal effects.
Benzo(a)pyrene (PAH)	þþt	200	7	Leaching from linings of water storage tanks and distribution mains	Some people who use water containing benzo(a)pyrene in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.
Carbofuran	ppb	18	0.7	Leaching of soil fumigant used on rice and alfalfa, and grape vineyards	Some people who use water containing carbofuran in excess of the MCL over many years may experience problems with their blood, or nervous or reproductive system problems.
Chlordane	ppt	100	30	Residue of banned insecticide	Some people who use water containing chlordane in excess of the MCL over many years may experience liver or nervous system problems, and may have an increased risk of getting cancer.
Dalapon	ppb	200	790	Runoff from herbicide used on rights-of-ways, and crops and landscape maintenance	Some people who drink water containing dalapon in excess of the MCL over many years may experience minor kidney changes.
Di(2-ethylhexyl) adipate	ppb	400	200	Discharge from chemical factories	Some people who drink water containing di(2- ethylhexyl) adipate in excess of the MCL over many years may experience weight loss, liver enlargement, or possible reproductive difficulties.
Di(2-ethylhexyl) phthalate	þþb	4	12	Discharge from rubber and chemical factories; inert ingredient in pesticides	Some people who use water containing di(2-ethylhexyl) phthalate in excess of the MCL over many years may experience liver problems or reproductive difficulties, and may have an increased risk of getting cancer.

amage and may have an increased					
Some people who use water containing heptachlor in excess of the MCL over many years may experience	Residue of banned insecticide	0 00	10	ppt	neptacnior
Some people who drink water containing glyphosate in excess of the MCL over many years may experience kidney problems or reproductive difficulties.	Runoff from herbicide use	900	700	ppb	University
Some people who use water containing ethylene dibromide in excess of the MCL over many years may experience liver, stomach, reproductive system, or kidney problems, and may have an increased risk of getting cancer.	Discharge from petroleum refineries; underground gas tank leaks; banned nematocide that may still be present in soils due to runoff and leaching from grain and fruit crops	0.1	50	. ppt	Charle diviounde (EDB)
Some people who drink water containing high levels of epichlorohydrin over a long period of time may experience stomach problems, and may have an increased risk of getting cancer.	Discharge from industrial chemical factories; impurity of some water treatment chemicals	(0)	TT		dikusata
Some people who drink water containing endrin in excess of the MCL over many years may experience liver problems.	Residue of banned insecticide and rodenticide	0.3	2	ppb	Enichlash
rink water containing end over many years may exp al problems	Runoff from herbicide use for terrestrial and aquatic weeds; defoliant	94	100	ppb	Endothail
Some people who drink water containing diquat in excess of the MCL over many years may get cataracts.	Runoff from herbicide use for terrestrial and aquatic weeds	6	20	ppb	Diquat
Some people who use water containing dioxin in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.	Emissions from waste incineration and other combustion; discharge from chemical factories	0.05	30	(parts per quadrillion)	
Some people who drink water containing dinoseb in excess of the MCL over many years may experience reproductive difficulties.	Runoff from herbicide used on soybeans, vegetables, and fruits	14	7	ppb	270
Some people who use water containing DBCP in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.	Banned nematocide that may still be present in soils due to runoff/leaching from former use on soybeans, cotton, vineyards, tomatoes, and tree fruit	1.7	200	ppt	Dibromochioropropane (DBCP)
Health Effects Language	Typical Source of Contaminant	PHG (MCLG) [MRDLG]	MCL (AL) [MRDL] TT, as noted	Unit Measure -ment	→

Contaminant	Unit Measure -ment	MCL (AL) [MRDL] TT, as noted	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Heptachlor epoxide	ppt	10	6	Breakdown of heptachlor	Some people who use water containing heptachlor epoxide in excess of the MCL over many years may experience liver damage, and may have an increased risk of getting cancer.
Hexachlorobenzene	ррb		0.03	Discharge from metal refineries and agricultural chemical factories; byproduct of chlorination reactions in wastewater	Some people who drink water containing hexachlorobenzene in excess of the MCL over many years may experience liver or kidney problems, or adverse reproductive effects, and may have an increased risk of getting cancer.
Hexachlorocyclopentadiene	ррb	50	2	Discharge from chemical factories	Some people who use water containing hexachlorocyclopentadiene in excess of the MCL over many years may experience kidney or stomach problems.
Lindane	ppt	200	32	Runoff/leaching from insecticide used on cattle, lumber, and gardens	Some people who drink water containing lindane in excess of the MCL over many years may experience kidney or liver problems.
Methoxychlor	ppb	30	0.09	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, and livestock	Some people who drink water containing methoxychlor in excess of the MCL over many years may experience reproductive difficulties.
Molinate (Ordram)	ppb	20	_	Runoff/leaching from herbicide used on rice	Some people who use water containing molinate in excess of the MCL over many years may experience reproductive effects.
Oxamyl (Vydate)	ppb	50	26	Runoff/leaching from insecticide used on field crops, fruits and ornamentals, especially apples, potatoes, and tomatoes	Some people who drink water containing oxamyl in excess of the MCL over many years may experience slight nervous system effects.
PCBs (Polychlorinated biphenyls)	ppt	500*	90	Runoff from landfills; discharge of waste chemicals	Some people who drink water containing PCBs in excess of the MCL over many years may experience changes in their skin, thymus gland problems, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.
Pentachlorophenol	ppb	—	0.3	Discharge from wood preserving factories, cotton and other insecticidal/herbicidal uses	Some people who use water containing pentachlorophenol in excess of the MCL over many years may experience liver or kidney problems, and may have an increased risk of getting cancer.

Similar of the state of the sta	Some people who use worker industrial activities of cetting increased risk of cetting.	e ppb 1 0.15 Discharge from plastics, dyes and nylon factories; leaching from gas storage tanks and landfills	latile Organic Contaminants	ntenance remover, ing agent; duction of ticides.	2,3-Trichloropropane ² ppt 5 0.7 Discharge from industrial and Some people who drink agricultural chemical factories; trichloropropane in excensed reaching from hazardous waste sites; may have an increased reaching from hazardous waste sites;	(aphene ppb 3 0.03 Runoff/leaching from insecticide used on cotton and cattle	70 42 Runoff/leaching from herbicide used on rice	ppb 4 Herbicide runoff	Picloram ppb 500 166 Herbicide runoff Some people who drink excess of the MCL over liver problems.	Unit (AL) Contaminant Measure [MRDL] (MCLG) -ment TT, as noted [MRDLG] Unit (AL) (MCLG) Typical Source of Contaminant
Discharge from industrial chemical Some people who drink water containing 1,2-factories dichlorobenzene in excess of the MCL over many years	l plants and	plastics, dyes leaching from d landfills			sites;	ecticide	from herbicide used	runoff		Typical Source of Contaminant Health Effects Language

 ^{1,2,3-}trichloropropane (1,2,3-TCP) had a notification level (NL) of 5 ppt until December 14, 2017, when the MCL of 5 ppt became effective.
 SWS CCR Forms & Instructions
 CCR Instructions - Attachments 1 to 6

Contaminant	Unit Measure -ment	MCL (AL) [MRDL] TT, as noted	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
1,4-Dichlorobenzene	þþb	5	6	Discharge from industrial chemical factories	Some people who use water containing 1.4-dichlorobenzene in excess of the MCL over many years may experience anemia, liver, kidney, or spleen damage, or changes in their blood.
1,1-Dichloroethane	ррb	5	3	Extraction and degreasing solvent; used in the manufacture of pharmaceuticals, stone, clay, and glass products; fumigant	Some people who use water containing 1,1-dichloroethane in excess of the MCL over many years may experience nervous system or respiratory problems.
1,2-Dichloroethane	ppt	500	400		Some people who use water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer.
1,1-Dichloroethylene	ppb	6	10	Discharge from industrial chemical factories	Some people who use water containing 1,1-dichloroethylene in excess of the MCL over many years may experience liver problems.
cis-1,2-Dichloroethylene	þþb	6	100	Discharge from industrial chemical factories; major biodegradation byproduct of TCE and PCE groundwater contamination	Some people who use water containing cis-1,2-dichloroethylene in excess of the MCL over many years may experience liver problems.
trans-1,2-Dichloroethylene	ppb	10	60	Discharge from industrial chemical factories; minor biodegradation byproduct of TCE and PCE groundwater contamination	Some people who drink water containing trans-1,2-dichloroethylene in excess of the MCL over many years may experience liver problems.
Dichloromethane	þрb	5	4	Discharge from pharmaceutical and chemical factories; insecticide	Some people who drink water containing dichloromethane in excess of the MCL over many years may experience liver problems and may have an increased risk of getting cancer.
1,2-Dichloropropane	ppb	5	0.5	Discharge from industrial chemical factories; primary component of some fumigants	Some people who use water containing 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.
1,3-Dichloropropene	ppt	500	200	Runoff/leaching from nematocide used on croplands	Some people who use water containing 1,3-dichloropropene in excess of the MCL over many years may have an increased risk of getting cancer.
Ethylbenzene	ppb	300	300	Discharge from petroleum refineries; industrial chemical factories	Some people who use water containing ethylbenzene in excess of the MCL over many years may experience liver or kidney problems.
Methyl-tert-butyl ether	ppb	13	13	Leaking underground storage tanks; discharges from petroleum and chemical factories	Some people who use water containing methyl-tert-butyl ether in excess of the MCL over many years may have an increased risk of getting cancer.

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Contaminant	Unit Measure -ment	MCL (AL) [MRDL] TT, as noted	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Monochlorobenzene	ppb	70	70	Discharge from industrial and agricultural chemical factories and drycleaning facilities	Some people who use water containing monochlorobenzene in excess of the MCL over many vears may experience liver or kidney problems
Styrene	ррь	100	0.5	Discharge from rubber and plastic factories; leaching from landfills	Some people who drink water containing styrene in excess of the MCL over many years may experience liver, kidney, or circulatory system problems.
1,1,2,2-Tetrachloroethane	ppb		0.1	Discharge from industrial and agricultural chemical factories; solvent used in production of TCE, pesticides, varnish and lacquers	Some people who drink water containing 1,1,2,2-tetrachloroethane in excess of the MCL over many years may experience liver or nervous system problems.
Tetrachloroethylene (PCE)	ppb	5	0.06	—	Some people who use water containing tetrachloroethylene in excess of the MCL over many years may experience liver problems, and may have an increased risk of getting cancer.
1,2,4-Trichlorobenzene	qdď	5	5	Discharge from textile-finishing factories	Some people who use water containing 1,2,4- trichlorobenzene in excess of the MCL over many years may experience adrenal gland changes.
I,1,1-Trichloroethane	qđđ	200	1000	Discharge from metal degreasing sites and other factories; manufacture of food wrappings	Some people who use water containing 1,1,1-trichloroethane in excess of the MCL over many years may experience liver, nervous system, or circulatory system problems.
	ppb	5	0.3	Discharge from industrial chemical factories	Some people who use water containing 1,1,2-trichloroethane in excess of the MCL over many years may experience liver, kidney, or immune system problems.
Trichloroethylene (TCE)	ррb	5	1.7	Discharge from metal degreasing sites and other factories	Some people who use water containing trichloroethylene in excess of the MCL over many years may experience liver problems and may have an increased risk of getting cancer.
Toluene	ppb	150	150	Discharge from petroleum and chemical factories; underground gas tank leaks	Some people who use water containing toluene in excess of the MCL over many years may experience nervous system, kidney, or liver problems.
Trichlorofluoromethane	ppb	150	1300	Discharge from industrial factories; degreasing solvent; propellant and refrigerant	o use water cont ethane in excess ience liver probl
1,1,2-Trichloro-1,2,2- trifluoroethane	ppm	1.2	4	Discharge from metal degreasing sites and other factories; drycleaning solvent; refrigerant	Some people who use water containing 1,1,2-trichloro-1,2,2-trifloroethane in excess of the MCL over many years may experience liver problems.

Contaminant	Unit Measure -ment	MCL (AL) [MRDL] TT, as noted	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Vinyl chloride	ppt	500	50	Leaching from PVC piping; discharge from plastics factories; biodegradation byproduct of TCE and PCE groundwater contamination	Some people who use water containing vinyl chloride in excess of the MCL over many years may have an increased risk of getting cancer.
Xylenes	ppm	1.750	1.8	Discharge from petroleum and chemical factories; fuel solvent	Some people who use water containing xylenes in excess of the MCL over many years may experience nervous system damage.
Disinfection Byproducts, I	disinfectant	Residuals, and	Disinfection	Byproduct Precursors	
TTHMs (Total Trihalomethanes)	ppb	80	N/A	Byproduct of drinking water disinfection	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.
Haloacetic Acids	ppb	60	N/A	Byproduct of drinking water disinfection	Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.
Bromate	ppb	10	0.1	Byproduct of drinking water disinfection	Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.
Chloramines	ppm	[MRDL = 4.0 (as Cl ₂₎]	[MRDLG = 4 (as Cl ₂₎]	Drinking water disinfectant added for treatment	Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.
Chlorine	ppm	[MRDL = 4.0 (as Cl ₂₎]	[MRDLG = 4 (as Cl ₂₎	Drinking water disinfectant added for treatment	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.
Chlorite	mdd	1.0	0.05	Byproduct of drinking water disinfection	Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.

	Unit	MCL	PHG		
Contaminant	Measure -ment	[MRDL]	(MCLG) [MRDLG]	Typical Source of Contaminant	Health Effects Language
Chlorine Dioxide	dqq	[MRDL =	[MRDLG =	Drinking water disinfectant added	Some infants and young children who drink water
	-	800 (as ClO ₂)]	800 (as	for treatment	containing chlorine dioxide in excess of the MRDL
			C10 ₂)]		could experience nervous system effects. Similar
			ì		effects may occur in fetuses of pregnant women who
					drink water containing chlorine dioxide in excess of the
					MRDL. Some people may experience anemia.
Control of DBP precursors		TT	N/A	Various natural and man-made	Total organic carbon (TOC) has no health effects.
(TOC)				sources	However, total organic carbon provides a medium for
					the formation of disinfection byproducts. These
					byproducts include trihalomethanes (THMs) and
	•				haloacetic acids (HAAs). Drinking water containing
	•				these byproducts in excess of the MCL may lead to
					adverse health effects, liver or kidney problems, or
					nervous system effects, and may lead to an increased
					risk of cancer.

Regulated Contaminants with SECONDARY DRINKING WATER STANDARDS (a)

Monitoring Required by Section 64449, Chapter 15, Title 22, California Code of Regulations

	11		
Contaminant	Unit Measurement	MCL	Typical Source of Contaminant
Aluminum	ppb	200	Erosion of natural deposits; residual from some surface water treatment processes
Color	Units	15	Naturally-occurring organic materials
Copper	ppm	1.0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Foaming Agents (MBAS)	ppb	500	Municipal and industrial waste discharges
Iron	ppb	300	Leaching from natural deposits; industrial wastes
Manganese	ppb	50	Leaching from natural deposits
Methyl-tert-butyl ether (MTBE)	ррb	5	Leaking underground storage tanks; discharge from petroleum and chemical factories
OdorThreshold	Units	3	Naturally-occurring organic materials
Silver	ppb	100	Industrial discharges
Thiobencarb	ppb	1	Runoff/leaching from rice herbicide
Turbidity	Units	5	Soil runoff
Zinc	ppm	5.0	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	ppm	1000	Runoff/leaching from natural deposits
Specific Conductance	μS/cm	1600	Substances that form ions when in water; seawater influence
Chloride	ppm	500	Runoff/leaching from natural deposits; seawater influence
Sulfate	ppm	500	Runoff/leaching from natural deposits; industrial wastes
(a) There are no PHGs, MCLGs, or n	mandatory standard health		effects language for these constituents because secondary MCLs are set on the basis of aesthetics.

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State Regulated Contaminants with No Maximum Contaminant Levels (i.e., Unregulated Chemicals)

Monitoring Formerly Required by Repealed Section 64450, Chapter 15, Title 22, California Code of Regulations

encouraged to include the information in the CCR to keep their customers informed. specific contaminants per section 116375(b) of the Health and Safety Code. Section 64450 (State UCMR) was repealed effective October 18, 2007, but from time to time, the State Board may request water systems to monitor for Water systems that continue to monitor for State UCMR contaminants are

Inclusion of the notification level and health effects language for levels above the notification level is recommended, not required.

Chemicals	Notification Level	Health Effects Language (Optional)
Boron	l ppm	The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals
Dichlorodifluoromethane (Freon 12)	l ppm	Some people who drink water containing dichlorodifluoromethane far in excess of the notification level may experience neurological and cardiac effects. Long- term exposures to dichlorodifluoromethane resulted in smaller body weight in laboratory animals
Ethyl-tert-butyl ether (ETBE)	n/a	Π/a
Hexavalent chromium ³	n/a	Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer.
tert-Amyl-methyl ether (TAME)	n/a	n/a
tert-Butyl alcohol (TBA)	12 pp b	Some people who use water containing tert-butyl alcohol in excess of the notification level over many years may have an increased risk of getting cancer, based on studies in laboratory animals.
1,2,3-Trichloropropane ⁴ (1,2,3-TCP)	5 ppt	Some people who drink water containing 1,2,3-trichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.
Vanadium	50 ppb	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.

results above the detection limit of 1 ppb should be reported.

4 1,2,3-trichloropropane (1,2,3-TCP) had a notification level (NL) of 5 ppt until December 14, 2017, when the MCL of 5 ppt became effective.

SWS CCR Forms & Instructions ³ There is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L (10 ppb) was withdrawn on September 11, 2017. However, any hexavalent chromium

Federal Regulated Conta (i.e., Federa minants with No Maximum Contaminant Levels UCMR 1, UCMR 2, and UCMR 3)

Background

and to publish a list of contaminants to be monitored. The 1996 Amendments to the Safe Drinking Water Act required the U.S. EPA to establish criteria for a monitoring program for unregulated contaminants

UCMR 1 (2001 - 2003 Monitoring)

In 1999, U.S. EPA revised the Unregulated Contaminant Monitoring Rule to incorporate a tiered monitoring approach. UCMR 1 had assessment monitoring (List 1) and screening survey (List 2) components.

Assessment monitoring was conducted by large public water systems (PWS) serving more than 10,000 people and 800 representative small PWS serving 10,000 or fewer people for List 1 contaminants. Assessment monitoring was conducted by each PWS over a 12-month period between 2001 and 2003.

Screening monitoring was conducted by a randomly selected set of 300 large and small PWSs for List 2 contaminants. Screening monitoring for chemical contaminants was conducted in 2001 and 2002 for small and large PWS, respectively. Screening monitoring for *Aeromonas* was conducted in 2003 for small and large PWS.

List 1	List 2
Assessment Monitoring	Screening Survey
2,4-dinitrotoluene	1,2-diphenylhydrazine
2,6-dinitrotoluene	2-methyl-phenol
Acetochlor	2,4-dichlorophenol
DCPA mono-acid degradate	2,4-dinitrophenol
DCPA di-acid degradate	2,4,6-trichlorophenol
4,4' - DDE	Aeromonas
EPTC	Alachior ESA
Molinate	Diazinon
MTBE	Disulfoton
Nitrobenzene	Diuron
Perchlorate	Fonofos
Terbacil	Linuron
	Nitrobenzene
	Prometon
	RDX
	Terbufos

UCMR 2 (2008 – 2010 Monitoring)

In 2007, U.S. EPA revised the Unregulated Contaminant Monitoring Rule to establish a new set of unregulated contaminants.

Assessment monitoring was required of all PWS serving more than 10,000 people and 800 representative PWS serving 10,000 or fewer people for List 1 contaminants. Assessment monitoring was required of each PWS during a 12-month period from January 2008 – December 2010.

Screening monitoring was required of all PWS serving more than 100,000 people, 320 representative PWS serving 10,001 to 100,000 people, and 480 representative PWS serving 10,000 or fewer people for List 2 contaminants. Screening monitoring was required of each PWS during a 12-month period from January 2008 – December 2010.

List 1	List 2
Assessment Monitoring	Screening Survey
Dimethoate	Acetochlor ethane sulfonic acid
Terbufos sulfone	Acetochlor oxanilic acid
2,2',4,4'-tetrabromodiphenyl ether	Alachlor ethane sulfonic acid
2,2',4,4',5-pentabromodiphenyl ether	Alachlor oxanilic acid
2,2',4,4',5,5'-hexabromobiphenyl	Metolachlor ethane sulfonic acid
2,2',4,4',5,5'-hexabromodiphenyl ether	Metolachlor oxanilic acid
2,2',4,4',6-pentabromodiphenyl ether	
1,3-dinitrobenzene	Acetochlor
2,4,6-trinitrotoluene (TNT)	Alachlor
Hexahydro-1,3,5-trinitro-1,3,5-trazine (RDX)	Metolachlor
	N-nitrosodiethylamine (NDEA)
	N-nitrosodimethylamine (NDMA)
	N-nitroso-di-n-butylamine (NDBA)
	N-nitroso-di-n-propylamine (NDPA)
	N-nitrosomethylethylamine (NMEA)

UCMR 3 (2008 - 2010 Monitoring)

In 2012, U.S. EPA revised the Unregulated Contaminant Monitoring Rule to establish a new set of unregulated contaminants

Assessment monitoring (List 1 Contaminants) was required of all PWS serving more than 10,000 people and 800 representative PWS serving 10,000 or fewer people. Assessment monitoring was required of each PWS during a 12-month period from January 2013 – December 2015.

Screening monitoring (List 2 Contaminants) was required of all PWS serving more than 100,000 people, 320 representative PWS serving 10,001 to 100,000 people, and 480 representative PWS serving 10,000 or fewer people. Screening monitoring was required of each PWS during a 12-month period from January 2013 – December 2015.

Pre-screen testing (List 3 Contaminants) was required of select 800 representative PWS serving 1,000 or fewer people that do not disinfect. These PWS with wells that were located in areas of karst or fractured bedrock monitored during a 12-month period from January 2013 – December 2015.

List 1	List 2
Assessment Monitoring	Screening Survey
1,2,3-trichloropropane	17-β-estradiol
1,3-butadiene	17-α-ethynylestradiol (ethinyl
Chloromethane (methyl chloride)	estradiol)
1,2-dichloroethane	16-α-hydroxyestradiol (estriol)
Bromomethane (methyl bromide)	Equilin
Chlorodifluoromethane (HCFC-22)	Estrone
Bromochloromethane (haion 1011)	Testosterone
	4-anderostene-3,17-dione
1,4-dioxane	
Vanadium	
Molybdenum	
Cobalt	List 3
Strontium	Pre-Screen Testing
Chromium (total)	Enteroviruses
Chromium-6	Noroviruses
Chlorate	
Perfluorooctanesulfonate acid (PFOS) Perfluorooctanoic acid (PFOA)	
Perfluorononanoic acid (PFNA)	
Perfluorohexanesulfonic acid (PFHxS)	
Perfluorobutanesulfonic acid (PFBS)	

Reporting

not required and data older than 5 years need not be reported U.S. EPA is essentially silent on the issue of reporting federal UCMR contaminants beyond the previous calendar year's detections, other than to say it is As a result, the State Board recommends systems to report the data for 5 years.

State Contaminants with Notification Levels

Inclusion of the notification level and health effects language for levels above the notification level is recommended, not required.

Vanadium 50	-Trinitrotoluene (TNT)	5-Trimethylbenzene	Trimethylbenzene	2 3-Trichloropropane (1,2,3-TCP) ⁵	ary butyl alcohol (TBA)		n-Pronvlhenzene 260		ne (NDPA)	ne (NDMA)	N-Nitrosodiethylamine (NDEA) 10	alene	Methyl isobutyl ketone (MIBK) 12(Manganese	SITZETIE		350 ppb	e r 63 3	Ethylene glycol			1		1.2	140	toluene 140	800	160	260	ne 260	Ibenzene 260	1 p	Chemical Notification
ppb See Affac	n/a	6	330 ppb n/a	5 ppt See Attachm	 	n/a	ppb n/a	90 ppb n/a	10 ppt n/a	10 ppt n/a	ppt n/a	ppb n/a	20 ppb n/a		_	ppb n/a	pb n/a	pb n/a	ppm n/a	laboratory			See	n/a	ppb n/a	ppb n/a		ppb n/a	ppb n/a	ppb n/a	ppb n/a	n See Attachment	Level
Attachment				nment 3	ent									manganese in people have been shown to result in effects of the nervous system.	protect con	a lattata Ulah lavale				animals.	er or kidney problems and may have an increased risk of genting cancer, based on studies	excess of the rotation concer based on studies i										nent 3	

⁵ 1,2,3-trichloropropane (1,2,3-TCP) had a notification level (NL) of 5 ppt until December 14, 2017, when the MCL of 5 ppt became effective SWS CCR Forms & Instructions

CCR Instructions - Attachments 1 to 6

Special Language for Nitrate, Arsenic, Lead, Radon, Cryptosporidium, Ground Water Systems, and Surface Water Systems

Nitrate: For systems that detect nitrate (as nitrogen) above 5 mg/L, but below 10 mg/L, the following language is REQUIRED:

can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness Nitrate in drinking water at levels above 10 mg/L is a and those with specific enzyme deficiencies. of the skin. provider. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women If you are caring for an infant, or you are pregnant, you should ask advice health risk for infants of less than six months of age. Such nitrate levels in drinking water from your health care

If a utility cannot demonstrate to the State Board with at least five years of the most current monitoring data that its nitrate levels are stable, it must also add the following language to the preceding statement on nitrate:

Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

Arsenic: For systems that detect arsenic above 5 ppb, but below or equal to 10 ppb, the following language is REQUIRED:

the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. concentrations and is linked to other health effects such as skin damage and circulatory problems. 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 While your drinking water meets the federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances The U.S. Environmental

than 20 sites and has even one sample above the AL), the following language is REQUIRED: Lead: For systems that detect lead above 15 ppb in more than 5%, and up to and including 10%, of sites sampled (or if your system samples fewer

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 Infants and young children are typically more vulnerable about elevated lead levels in your home's water, you using tap water. Additional information is available J from the U.S. EPA Safe Drinking Water Hotline (1-800-426-4791). may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before to lead in drinking water than the general population. It is possible that lead levels at

and an explanation of the significance of the results. Radon: Systems that performed monitoring that indicates the presence of radon in the finished water MUST include the results of the monitoring The following language MAY be used:

samples tested. There is no federal regulation for radon levels in drinking water. Exposure over a long period of time to may cause adverse health effects. We constantly monitor the water supply. for various contaminants. We have detected radon in the finished water supply Ħ. air transmitting radon out of

The language below MAY be included if the level of information is helpful.

soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through a home through cracks and holes in the foundation. you are concerned about radon in your home, test the Radon is a radioactive gas that you cannot see, taste, are not too costly. For additional information, call your State radon program (1-800-745-7236, the U.S. EPA Safe Drinking Water Act Hotline your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that Breathing air containing radon can lead to lung cancer. (1-800-426-4791), or the National Safe Council Radon Hotline (1-800-767-7236). Radon can build up to high levels in all types of homes. Radon can also get into indoor air or smell. It is found throughout the U.S. air in your home. Testing is inexpensive and easy. You should pursue radon removal for Drinking water containing radon may also cause increased risk of stomach cancer. If Radon can move up through the ground and into

Cryptosporidium: Systems that have performed any monitoring for Cryptosposidium that indicates that Cryptosporidium may be present in the source water or finished water MUST include the results of the monitoring and an explanation of the significance of the results. The following language MAY be used:

source water and/or finished water. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to commonly-used filtration methods cannot guarantee Cryptosporidium is a microbial pathogen found in surface water throughout the U.S.and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. disease. consult their doctor regarding appropriate precautions to take to avoid infection. may be spread through means other than drinking water. Ingestion of Cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, 100 percent removal. Our monitoring indicates the presence of these organisms in our Cryptosporidium must be ingested to cause disease, and it Although filtration removes Cryptosporidium, the most However, immuno-compromised people, infants,

Additional Special Language for Lead: For community water systems, the following language is REQUIRED:

for drinking or cooking. [Optional: If you do so, you may wish to collect the flushed water and reuse it for another bene 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 watering plants.] If you are concerned about lead in your water, you may wish to have your water tested. 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. present, elevated levels of lead can cause serious health problems, especially for pregnantwomen and young children. primarily from materials and components associated with service lines and home plumbing. [INSERT NAME OF UTILITY] is responsible lead in drinking water, Lead in drinking water

Groundwater Systems: For ground water systems that had a TT violation described in Item S of the SWS CCR Form Instructions, the language MAY be used to describe the potential health effects. U.S. EPA did not provide standard health effect language for these TT violations in the Ground Water Rule; U.S. EPA provided the language in their guidance to water systems. following

Inadequately protected or treated water may contain disease-causing organisms. These organisms can cause symptoms suchasdiarrhea,

nausea, cramps, and associated headaches.

Surface Water Systems: For surface water systems that had a TT violation under the SWTR, IESWTR, FBRR, or LT1ESWTR, as described in Item U of the SWS CCR Form Instructions, the following language is REQUIRED to describe the potential health effects:

symptoms such as nausea, cramps, diarrhea, and associated headaches. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites that cancause

For surface water systems that had a TT violation under the LT2ESWTR, as described in Item U of the SWS CCR Form Instructions, the following language MAY be used to describe the potential health the LT2ESWTR; U.S. EPA provided the language in their guidance to water systems. effects. U.S. EPA did not provide standard health effect language for these TT violations in

Treatment	Provide or install an Additional Level of	Additional I evol of	Determine and Report Day Cassimers	Reservoir		I Incovered and Untreated Finished Water	1 TOFSWTR TT Violation
Symptoms such as men, the state of the state	such as diarrhea, nausea, cramps, and associated headaches.	Inadequately treated water may contain disease-causing organisms. These organisms can cause	symptoms such as diarrhea, nausea, cramps, and associated headaches.	Inadequately treated water may contain disease-causing organisms. These organisms can cause	cause symptoms such as diarrhea, nausea, cramps, and associated neadaches.	Inadequately protected water may contain disease-causing organisms. These organisms can	77,555

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 Board's website at http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/CCR.shtml)

Wate	er Syster	n Name: <u>Reescaale Mutual Water Company</u>
Wate	er Systei	n Number: 1900145
Furthe compl	$\frac{28/1}{\text{er}}$, the sy	tem named above hereby certifies that its Consumer Confidence Report was distributed on (date) to customers (and appropriate notices of availability have been given). Vestem certifies that the information contained in the report is correct and consistent with the onitoring data previously submitted to the State Water Resources Control Board, Division of er.
Certified by:		Name: Latricia Purker Signature: Dutture Duler
		Title: Devetary
		Phone Number: $(\psi) 488 - 809/$ Date: $9/27/18$
items	that app	report delivery used and good-faith efforts taken, please complete the below by checking all oly and fill-in where appropriate: as distributed by mail or other direct delivery methods. Specify other direct delivery methods
		faith" efforts were used to reach non-bill paying consumers. Those efforts included the ing methods:
		Posting the CCR on the Internet at www
	R	Mailing the CCR to postal patrons within the service area (attach zip codes used) 93535
		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)
	_	stems serving at least 100,000 persons: Posted CCR on a publicly-accessible internet site at lowing address: www
	For pr	ivately-owned utilities: Delivered the CCR to the California Public Utilities Commission

This form is provided as a convenience and may be used to meet the certification requirement of section 64483(c), California Code of Regulations.