

## RIVERSIDE PUBLIC UTILITIES

# Board Memorandum

**BOARD OF PUBLIC UTILITIES** 

**DATE:** JUNE 24, 2019

ITEM NO: 4

SUBJECT: PUBLIC HEARING - 2019 PUBLIC WATER SYSTEM REPORT ON PUBLIC HEALTH

GOALS (CALIFORNIA HEALTH AND SAFETY CODE SECTION 116470 (c))

#### **ISSUE**:

Conduct a public hearing to review the public water system report on Public Health Goals as required under California Health and Safety Code Section 116470(c).

## **RECOMMENDATIONS:**

That the Board of Public Utilities:

- 1. Conduct a public hearing to review the public water system report on Public Health Goals as required under California Health and Safety Code Section 116470(c); and
- 2. Accept and respond to any comments about the report.

#### **BACKGROUND:**

California Health and Safety Code section 116470 (b) requires that every three (3) years, public water systems serving more than 10,000 service connections that detect one or more contaminants in drinking water that exceed the applicable public health goal, shall prepare a brief written report in plain language that does all of the following:

- (1) Identifies each contaminant detected in drinking water that exceeds the applicable public health goal.
- (2) Discloses the numerical public health risk, determined by the office, associated with the maximum contaminant level for each contaminant identified in paragraph (1) and the numerical public health risk determined by the office associated with the public health goal for that contaminant.
- (3) Identifies the category of risk to public health, including, but not limited to, carcinogenic, mutagenic, teratogenic, and acute toxicity, associated with exposure to the contaminant in drinking water, and includes a brief plainly worded description of these terms.
- (4) Describes the best available technology, if any is then available on a commercial basis, to remove the contaminant or reduce the concentration of the contaminant. The public water system may, solely at its own discretion, briefly describe actions that have been taken on its own, or by other entities, to prevent the introduction of the contaminant into drinking water supplies.
- (5) Estimates the aggregate cost and the cost per customer of utilizing the technology described in paragraph (4), if any, to reduce the concentration of that contaminant in drinking water to a level at or below the public health goal.

(6) Describes briefly what action, if any, the local water purveyor intends to take to reduce the concentration of the contaminant in public drinking water supplies and the basis for that decision.

Riverside Public Utilities (RPU) serves far more than 10,000 customers; therefore, it must report any contaminants accordingly. RPU staff has prepared the required report (Attachment 2), addressing all of the required elements. California Health and Safety Code section 116470 (c) requires that an agency preparing such a report shall hold a public hearing for the purpose of accepting and responding to public comment on the report, and allows that public hearing to be part of any regularly scheduled meeting.

Public health goals (PHG) are set exclusively on health risk without consideration to treatment feasibility, treatment costs, and analytical capability to detect the contaminant. The PHG level is determined by calculating the health risk based on long-term animal laboratory exposure studies. Maximum contaminant level goals (MCLG) are the federal equivalent to the PHG. The PHG and MCLG represent the lowest level of a contaminant in drinking water that is believed to have no adverse health effect. In many instances, the PHG level is a theoretical calculation that cannot be tested or measured using available analytical equipment or methods.

The State Water Resources Control Board Division of Drinking Water (DDW) uses the PHG to develop health based drinking water regulatory limits known as Maximum Contaminant Levels (MCL). MCL are developed to protect public health while considering applicable treatment technology, cost of treatment, and analytical capability. The MCL is the highest level of a contaminant allowed in drinking water that provides protection from increased health risk. The MCL is an enforceable level that all public water systems must meet. PHG are not enforceable levels.

The public water system report on PHG only needs to address contaminants that are found at a level exceeding a PHG or a MCLG. The requirements under the legislation are unique to California and are in addition to the Consumer Confidence Report distributed to consumers each year. It is important to realize that:

- 1. Drinking water in full compliance with existing water quality standards may expose customers to some level of risk, although very low in comparison with other sources of health risk.
- 2. There can be significant costs and technology limitations associated with water treatment to reduce contaminants below their respective PHG.
- 3. No large public water system can meet all PHGs and MCLGs.

During the reporting period from 2016 to 2018, four (4) constituents were found above their applicable PHG or MCLG. These constituents are summarized in Table 1 below and are fully explained in the attached report. The range of costs to reduce these constituents to a level below their applicable PHG or MCLG is estimated at \$860 per customer per year. Given the significant financial burden on customers of treating the water, when the effectiveness of the treatment processes to provide any significant reductions in constituent levels is uncertain, no treatment action is proposed.

Table 1: PHG or MCLG Exceedance

Constituent,	MCL	RPU	DLR	PHG or	Health	Numeric	Numeric	Sources	BAT
unit	or (AL)	Average/	Detection	MCLG	Risk	Risk @	Risk @		
		(Range)	Limit		Category	PHG	MCL		
Arsenic, ppb	10	<2/	2	0.004	Cancer	1 x 10 <sup>-6</sup>	2.5 x 10 <sup>-3</sup>	Erosion of	IX
		(ND-2.9)		ppt		(one per	(2.5 per	natural	
						million)	thousand)	deposits	
Coliform	5%	ND	Presence	0	Non-	NA	NA	Naturally	Disinfection
Bacteria,	positive	(ND-1%)			Cancer			present	
% Positive									
Uranium,	20	7.8/	1	0.43	Cancer	1 x 10 <sup>-6</sup>	5 x 10 <sup>-5</sup>	Erosion of	IX
pCi/L		(3.1-12)					(five per	natural	
							hundred	deposits	
							thousand)		
Copper 90%	1300	450/	50	300	Gastro-	NA	NA	Natural/	TT

Household	(<50-730)	intestinal	Home	
Tap, ppb		effects	plumbing	

MCL= Maximum Contaminant Level, AL = Action Level, PHG = Public Health Goal, MCLG = MCL Goal, BAT = Best Available Technology IX= Ion Exchange, TT = Treatment Technique, ppb = part per billion, ppt,= part per trillion, pCi/L = Picocurie per liter

### **FISCAL IMPACT**:

There is no fiscal impact associated with this item.

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#### Attachments:

- 1. Public Notice Text
- 2. Public Health Goal Report
- 3. Presentation