

The water quality monitoring results are presented below.

The water sources serving this address are:

Source Name	Origin of Water	Treatment	Region
a) Hoaeae Wells	Groundwater	Chlorination, GAC	3
b) Honouliuli Wells I & II	Groundwater	Chlorination	3
c) Kunia Wells I & III	Groundwater	Chlorination, GAC	3
d) Waipahu Wells IV	Groundwater	Chlorination, GAC	3

Source Water Monitoring

The substances detected in these sources are shown below. If a substance is not shown then it was not detected.

Regulated Contaminants (2)

Contaminant	Sample Year	Unit	Highest Average	Range		MCL (Allowed)	MCLG (Goal)	Found in Sources
				Minimum	Maximum			
1,2,3-Trichloropropane	2013	ppb	0.244	ND	0.490	0.600	0.000	a,c,d
Arsenic	2011	ppb	1.300	1.300	1.300	10.000	0.000	b
Barium	2011	ppm	0.004	0.004	0.004	2.000	2.000	a,c,d
Chromium	2013	ppb	5.500	0.930	5.500	100.000	100.000	All Sources
Fluoride	2013	ppm	0.220	0.110	0.220	4.000	4.000	All Sources
Nitrate	2013	ppm	3.900	1.200	3.900	10.000	10.000	All Sources
Simazine	2011	ppb	0.023	ND	0.071	4.000	4.000	d

- Definitions:
- MCL

Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- MCLG

Maximum Contaminant Level Goal. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- GAC

Granular Activated Carbon Filtration
- Health Advisory

An estimate of acceptable drinking water levels for a chemical substance based on health effects information. Health advisory is not a legally enforceable standard.
- CFU/100ml

Colony forming units per 100 milliliter
- mrem/yr

Millirems Per Year (A Measure of Radiation)
- pCi/L

Picocuries Per Liter (A Measure of Radioactivity)
- ppb

Parts Per Billion or Micrograms Per Liter"
- ppm

Parts Per Million or Milligrams Per Liter
- ppt

Parts Per Trillion or Nanograms Per Liter
- NQ

Not Quantifiable (<means \"less than\")
- NYA

Not Yet Available
- N/A

Not Applicable
- ND

Not Detected
- *

EPA considers 50 pCi/L to be the level of concern for beta particles
- (1)

Analysis by the State of Hawaii Department of Health.
- (2)

Analysis by the Honolulu Board Of Water Supply. Questions, call 808-748-5370.
- LRAA

Locational running annual average is the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.
- MRDL

Maximum residual disinfectant level: The highest level of a disinfectant allowed in drinking water.
- MRDLG

Maximum residual disinfectant level goal: The level of a drinking water disinfectant below which there is no known or expected risk to health.

Unregulated Contaminants (Do not have designated maximum limits but require monitoring)

Contaminant	Tested By	Sample Year	Unit	Highest Average	Range		Health Advisory	Found in Sources
					Minimum	Maximum		
Chlorate	(2)	2013	ppb	82.000	82.000	82.000	210.000	d
Chlorodifluoromethane	(2)	2013	ppb	3.600	3.600	3.600	NYA	c
Chromium, Hexavalent	(2)	2013	ppb	6.400	0.990	6.400	13.000	All Sources
Strontium	(2)	2013	ppb	250.000	64.000	250.000	4000.000	All Sources
Sulfate	(2)	2013	ppm	25.000	18.000	25.000	250 **	All Sources
Vanadium	(2)	2013	ppb	46.000	24.000	46.000	21.000	All Sources

** Secondary Maximum Contaminant Levels (SMCLs) are standards established as guidelines to assist public water systems in managing the aesthetic quality (taste, odor and color) of drinking water. EPA does not enforce SMCLs.

Distribution System Monitoring

Disinfection By-Products (2)

System Name	Contaminant	Unit	Range		Highest LRAA	MCL (Allowed)	MCLG (Goal)
			Min	Max			
Waipahu-Ewa-Waianae	Total Trihalomethanes	ppb	0.00	6.40	5.60	80	None

Microbial Contaminants (2)

System Name	Contaminant	Unit	Found	MCL (Allowed)	MCLG (Goal)	Violation	Source of Contaminant
Waipahu-Ewa-Waianae	Total Coliform	% of positive samples	1.47 ***	5%	0	No	Naturally present in the environment

***Highest monthly percentage of positive samples

Residual Chlorine

System Name	Sample Year	Unit	Lowest Monthly Average	Highest Monthly Average	Running Annual Average	MRDL	MRDLG
Waipahu-Ewa-Waianae	2013	ppm	0.18	0.24	0.20	4	4

Lead/Copper Testing (2)

Contaminant	Sample Year	Unit	90th Percentile Reading	Action Level	# Samples Above Action Level
Copper	2012	ppm	0.380	1.300	0
Lead	2012	ppb	0.850	15.000	0

The Waipahu-Ewa-Waianae water system incurred four (4) Tier 3 violations (one per contaminant per year) for not collecting and testing the required water samples during calendar years 2011 and 2012. Public notification of the Tier 3 violations was published on 7/16/13.