



# WATER SAMPLING RESULT FACT SHEET

## XXXX Madrona Results

A team from DPW Environmental Compliance performed sampling at XXXX Madrona on 3Feb22. Based on these results, this water meets all regulatory standards for safe drinking water.

## What was tested?

**VOC or volatile organic contaminants** are a class of chemicals and can be found in discharge from factories, leaching from gas storage tanks, and landfills.

**TPH or total petroleum hydrocarbons** are a large family of chemical compounds that come from crude oil. TPH-d is testing the diesel components and TPH-g is testing the gasoline components in a sample.

**TOC or total organic carbons** are the total amount of organic molecules in water and can be used to indicate some level of contaminants. All water contains some carbon materials.

The results from XXXX Madrona indicated that your sample was below the lowest level the laboratory tests could quantify and are in compliance with VOC and TPH water standards. TOC is used for water quality screening and does not have a regulatory limit. The table below shows your results along with the safe drinking water regulatory limit created by the EPA and Hawaii Department of Health for each of the analytes sampled.

### Volatile Organic Contaminants (VOC)

Analyte	Your Result	Regulatory Limit	Exceeded?
Benzene	<0.5 ppb*	5 ppb	No
Ethylbenzene	<0.5 ppb*	700 ppb	No
Naphthalene	<0.5 ppb*	17 ppb	No
Toluene	<0.5 ppb*	1000 ppb	No
Xylenes, total	<1.5 ppb*	10000 ppb	No

ppb= parts per billion

\*No contaminants detected above the effective sensitivity of the tests

### Total Petroleum Hydrocarbons (TPH)

Analyte	Your Result	Regulatory Limit	Exceeded?
Total Petroleum Hydrocarbons-Diesel (TPH-d)	<100 ppb*	400 ppb	No
Total Petroleum Hydrocarbons-Gasoline (TPH-g)	<50 ppb*	300 ppb	No

ppb= parts per billion

\*No contaminants detected above the effective sensitivity of the tests

### Total Organic Carbon (TOC)

Analyte	Your Result	Regulatory Limit	Exceeded?
TOC	<0.25 ppm*	N/A	N/A

ppm= parts per million

\*No contaminants detected above the effective sensitivity of the tests

## Where does Aliamanu Military Reservation / Red Hill water come from?

Drinking water for Aliamanu Military Reservation (AMR) and Red Hill are supplied by the Joint Base Pearl Harbor Hickam Water System. The drinking water is currently obtained from the Waiawa Shaft. Water for Red Hill is supplied from two tanks located above Red Hill housing area. Water for AMR is supplied through two tanks located along Bougainville Drive.

The ground water filters naturally as it travels from the surface to an aquifer located below the ground. Once the water is pumped back up from the aquifer, it is chlorinated and fluoridated. Both additives are required under Army standards. Chlorine is used as a disinfectant and fluoride is used to promote strong teeth in children. The water is then piped into the distribution system.

## What else is sampled in my water system?

Many different water samples are collected and analyzed for various contaminants throughout the year from Aliamanu Military Reservation. The number and frequency of sampling events depends upon federal and state requirements. More information on our drinking water monitoring and results can be found in the annual Consumer Confidence Report.

<https://home.army.mil/hawaii/index.php/water-quality-report-AMR>