

# 2011 Annual Drinking Water Report Tucson Air National Guard Consumer Confidence Report (CCR) June 2012

## Where does my water come from?

The Tucson Air National Guard (ANG) drinking water system receives all of its water from the City of Tucson Public Water System's Martin Reservoir located adjacent to the 162<sup>nd</sup> Fighter Wing (FW). The Martin Reservoir holds 20.25 million gallons of water that draws from the Avra Valley and Santa Cruz groundwater well fields. Water held in the Martin Reservoir is continuously monitored for Chlorine, Fluoride, Alkalinity, Nitrogen, Sodium, Total Dissolved Solids, pH, and Temperature. Approximately 0.8 parts per million (ppm) of chlorine is added to the drinking water supply at the reservoir to provide assurance that water delivered to 162<sup>nd</sup> FW customers will remain free of microorganisms.

## Is the Tucson ANG water safe to drink?

From January to December 2011, the drinking water monitoring for microorganisms performed on base by the 162<sup>nd</sup> FW Bioenvironmental Engineering office met all reportable U.S. Environmental Protection Agency (USEPA) and Arizona State drinking water health standards. Additionally, Tucson Water vigilantly safeguards its water supplies off base, and is proud to report that the results from the monitoring conducted in 2011 met all standards for safe drinking water. Required monitoring was completed and reported to the State of Arizona.

## Do I need to take special precautions?

While the Safe Drinking Water Act regulations are intended to protect consumers throughout their lifetime, some people may be more vulnerable to contaminants in drinking water than the general population. These "at-risk" individuals may include persons with cancer undergoing chemotherapy, people who have undergone organ transplants, people with Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome or other immune system disorders, and in some cases, elderly people and infants. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microorganisms are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

## Water Quality Data Table

The table below lists all of the drinking water contaminants that Tucson Water and the 162<sup>nd</sup> FW Bioenvironmental Engineering office tested for during the calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk.

CONTAMINANTS	MCLG	MCL	Range		Violation	Typical Source
			Low	High		
<b>Inorganics</b>						
Arsenic (ppb)	0	10	<2.0	9.1	No	Natural deposits; run offs
Barium (ppm)	2	2	<0.02	0.15	No	Natural deposits; industrial uses
Fluoride (ppm)	4	4	<0.1	1.0	No	Natural deposits
Nitrate - measured as Nitrogen (ppm)	10	10	<0.25	5.8	No	Natural deposits; septic tanks; agriculture; sewage
Sodium (ppm)	None	None	11	106	No	Erosion of natural deposits
<b>Radiochemical</b>						
Alpha Emitters (pCi/L)	0	15	<1.0	4.3	No	Natural deposits
Uranium (ppb)	0	30	<0.6	23.3	No	Natural deposits
<b>Microbiological (36 samples were collected in 2010 by the 162<sup>nd</sup> FW BE office)</b>						
Fecal Coliform / E. coli (positive samples)	0	0	ND	ND	No	Human and animal fecal waste
Total Coliform (positive samples)	0	0	ND	ND	No	Naturally present in the environment

<b>Unit Descriptions</b>	
Term	Definition
ppm	parts per million, or milligrams per liter (mg/L)
ppb	parts per billion, or micrograms per liter (µg/L)
positive samples	microbiological contaminants detected in the samples
pCi/L	picocurie per liter
ND	not detected

<b>Important Drinking Water Definitions</b>	
<b>Term</b>	<b>Definition</b>
MCLG	Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health.
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.

**For more information please contact:**

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