CONSUMER CONFIDENCE REPORT

Report Covers Calendar Year: January 1 – December 31, 2013

Este informe contiene informactión muy importante sobre el aqua usted bebe. Tradúscalo ó hable con alguien que lo entienda bien.

I. Public Water System (PWS) Information

PWS Name:	City of Williams					
PWS ID#	AZ04-03026					
Owner / Operator Name: City of Williams						
Telephone #	(928) 635-4451					
We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our						
regularly scheduled meetings, please contact City of Williams at above for additional opportunity and meeting dates and times.						

II. Drinking Water Sources

The sources of drinking water (both tap 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 pickup substances resulting from the presence of animals or from human activity.

Our water source(s):

The City provides essential municipal services for its residents. Among these are water treatment/supply and wastewater treatment. The drinking water (potable) in Williams is produced at the City's Water Filter Plant at 600 South 6th Place. The City has two source water systems which include Surface water (lakes) and Groundwater (wells). Surface water is the City's major source and the system consists of 5 reservoirs: City Dam, Santa Fe Dam, Cataract Lake, Dogtown Lake and Kaibab Lake. Groundwater may be blended with lake water in raw water lines, treated at the Water Plant and delivered to our customers.

III. Consecutive Connection Sources

A public water system that receives some or all of its finished water from one or more wholesale systems by means of a direct connection or through the distribution system of one or more consecutive systems. Systems that purchase water from another system report regulated contaminants detected from the source water supply in a separate table. City of Williams does not buy or sell water to any other public water system.

IV. Drinking Water Contaminants

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, which 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, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants, that can be naturally occurring or be the result of oil and gas production and mining activities.

V. Vulnerable Population

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 water poses a health risk. 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 of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at 1-800-426-4791

Source Water Assessment

The City's public water system received a Source Water Assessment (SWA) as follows: Based on the information currently available on the hydrogeologic settings of and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this public water system, the Arizona Department of Environmental Quality has given a low risk designation for the degree to which this public water system drinking water source(s) are protected. A low risk designation indicates that most source water protection measures are either already implemented, or the hydrogeology is such that the source water protection measures will have little impact on protection. Specific water quality data has not been included in this report however, that information can be obtained by contacting ADEQ at (602) 771-4641.

VII. Definitions

AL = Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements.

MCL = Maximum Contaminant Level - The "Maximum Allowed" is the highest level of a contaminant that is allowed in drinking water.

MCLG = Maximum Contaminant Level Goal - The "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to

MFL = Million fibers per liter.

MRDL = Maximum Residual Disinfectant Level.

MRDLG = Maximum Residual Disinfectant Level Goal.

MREM = Millirems per year - a measure of radiation absorbed by the body.

NA = Not Applicable, sampling was not completed by regulation or was not required.

NTU = Nephelometric Turbidity Units, a measure of water clarity.

PCi/L = Picocuries per liter - picocuries per liter is a measure of the radioactivity in water.

<u>PPM = Parts per million</u> or Milligrams per liter (mg/L).

<u>PPB = Parts per billion</u> or Micrograms per liter (μ g/L).

ppb x 1000 = ppt

PPT = Parts per trillion or Nanograms per liter.

 $ppm \times 1000 = ppb$ ppt x 1000 = ppq

<u>PPQ = Parts per quadrillion</u> or Picograms per liter.

TT = Treatment Technique - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

VIII. Health Effects Language

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods-of-time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Consumer Confidence Report Revised March 13, 2012 1 of 3 If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

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

IX. Water Quality Data

Microbiological	Meets Standards Y or N	Number of Samples Present <u>OR</u> Highest Level Detected	Absent (A) or Present (P) <u>OR</u> Range of All Samples (L-H)	MCL	MCLG	Sample Month &/or Year	Likely Source of Contamination
Total Organic Carbon (ppm)	Y	6	1 – 6	TT	n/a	2013	Naturally present in the environment
Turbidity (NTU), surface water only	Y	0.01	0.01 - 0.34	TT	n/a	2013	Soil runoff
Disinfectants	Meets Standards Y or N	Running Annual Average (RAA)	Range of All Samples (L-H)	MCL	MCLG	Sample Month &/or Year	Likely Source of Contamination
Chlorine (ppm)	Y	1.58	0.97 - 2.6	MRDL = 4	MRDLG = 4	2013	Water additive used to control microbes
Disinfection By-Products	Meets Standards Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (L-H)	MCL	MCLG	Sample Month &/or Year	Likely Source of Contamination
Haloacetic Acids (ppb) (HAA5)	Y	13	1 - 31	60	n/a	2013	Byproduct of drinking water disinfection
Total Trihalomethanes (ppb) (TTHM)	Y	47	18 - 76	80	n/a	2013	Byproduct of drinking water disinfection
Chlorite (ppm)	Y	0.3	0.1 - 0.3	1	0.8	2011	Byproduct of drinking water disinfection
Lead & Copper	Meets Standards Y or N	90 th Percentile AND Number of Samples Over the AL	Range of All Samples (L-H)	AL	ALG	Sample Month &/or Year	Likely Source of Contamination
Lead (ppb)	Y	90 th Percentile =	1 – 3.5	15	0	July 2013	Corrosion of household plumbing systems; erosion of natural deposits
Copper (ppm)	Y	90 th Percentile = 9	0.02 – 0.18	1.3	1.3	July 2013	Corrosion of household plumbing systems; erosion of natural deposits
Inorganic Chemicals (IOC)	Meets Standards Y or N	Running Annual Average (RAA) <u>OR</u> Highest Level Detected	Range of All Samples (L-H)	MCL	MCLG	Sample Month &/or Year	Likely Source of Contamination
Alkalinity (ppm)	Y	128	50 - 128	n/a	n/a	2013	Erosion of natural deposits
Barium (ppm)	Y	0.05	0.05	2	2	May 2011	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Calcium (ppm)	Y	21	10 - 21	n/a	n/a	2012	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paint
Nitrate (ppm)	Y	0.23	0.23	10	10	Sept. 2013	Runoff from fertilizer use;

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							leaching from septic tanks; erosion of natural deposits
Sodium (ppm)	Y	20	20	n/a	n/a	May 2011	Erosion of natural deposits

X. Cryptosporidium Monitoring (surface water systems only)

The City of Williams sampled for and did not detect any Cryptosporidium in any finished water or source water.

Additional treatment is necessary if *Cryptosporidium* is found at greater than 0.075 oocyst per liter.

We believe it is important for you to know that *Cryptosporidium* may cause serious illness in 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. These people should seek advice from their health care providers.

XI. Stage 2 Disinfectants and Disinfection By-Products Rule

Stage 2 DBP Rule required some systems to complete an Initial Distribution System Evaluation (IDSE) to characterize DBP levels in their distribution systems and identify locations to monitor DBPs for Stage 2 DBP Rule compliance. The following table summarizes the individual sample results for the IDSE standard monitoring performed in <year>.

Contaminant	Number of Analyses	Minimum Level Detected	Highest Level Detected
Haloacetic Acids (HAA5) (ppb)	n/a		
Total Trihalomethanes (TTHM) (ppb)	n/a		

XII. Violations

Type / Description	Compliance Period	Corrective Actions taken by PWS
none		

An explanation of the violation(s) in the above table, the steps taken to resolve the violation(s) and any required health effects information are required to be included with this report. (Attach copy of Public Notice if available.)

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