# 2012 WATER QUALITY TESTING RESULTS FOR REGULATED CONTAMINANTS

| CONTAMINANT | DATE TESTED* | UNIT | MCL | MCLG | HIGHEST COMPLIANCE LEVEL | RANGE OF DETECTIONS | MAJOR SOURCES | VIOLATION? |
|---|---|---|---|---|---|---|---|---|
| **Inorganic Contaminants** | | | | | | | | |
| Barium | 6/15/2010 | ppm | 2 | 2 | 0.016 | N/A | Natural deposit erosion, drilling wastes | No |
| Fluoride# | 10/17/2012 | ppm | 4 | 4 | 0.93 | 0.41-0.93 | Natural deposit erosion, additive to promote strong teeth | No |
| Nitrate + Nitrite | 4/16/2012 | ppm | 10 | 10 | 0.13 | N/A | Fertilizer runoff, leaching from septic tanks, sewage | No |
| **Microbiologial Contaminants** | | | | | MAX | | | |
| Turbidity**# | 10/15/2012 | NTU | TT | N/A | 0.16 | 0.05-0.16 | Soil runoff | No |
| Total Coliform# | 12/31/2012 | % of samples | <5% | 0 | 0% | 0-0% | Naturally present in the environment | No |
| **Radioactive Contaminants** | | | | | MAX | | | |
| Combined Radium 226, 228 | 11/13/2008 | pCi/L | 5 | | 0.814 | NA | Erosion of natural deposits | No |
| Combined Uranium | 11/13/2008 | ppb | 30 | | 0.439 | NA | Erosion of natural deposits | No |
| Gross Alpha, excluding RN & U | 11/13/2008 | pCi/L | 15 | 15 | ND | N/A | Erosion of natural deposits | No |
| **Disinfectants** | | | MRDL | MRDLG | MAX | | | |
| Chlorine | 2/29/2012 | ppm | 4 | 4 | 1.3 | 1.0 to 1.5 | Added as water disinfectant | No |
| **Total Organic Carbon (TOC) Removal** | | | | | | | | |
| Total Alkalinity (source) | 10/31/2012 | ppm | | | 164 | 143 to 164 | Natural erosion, certain plant activity, certain industrial wastewater discharges | No |
| Total Organic Carbon (source) | 4/30/2012 | ppm | | | 4.9 | 3.8 to 4.9 | Naturally present in the environment | No |
| Total Organic Carbon (treated) | 10/31/2012 | ppm | | | 3.2 | 2.1 to 3.2 | Naturally present in the environment | No |
| **Disinfection Byproducts** | | | | | | | | |
| Total Trihalomethanes (Stage 1) | 6/30/2012 | ppb | 80 | NA | 79 | 42.3 to 72.2 | By-product of drinking water chlorination | No |
| Total Trihalomethanes (Stage 2) | 12/31/2012 | ppb | 80 | NA | 125.6 | 76.8 to 125.6 | By-product of drinking water chlorination | No |
| Total Haloacetic Acids (Stage 1) | 6/30/2012 | ppb | 60 | NA | 31 | 20.1 to 32.1 | By-product of drinking water chlorination | No |
| Total Haloacetic Acids (Stage 2) | 12/31/2012 | ppb | 60 | NA | 23.93 | 5.97 to 23.93 | By-product of drinking water chlorination | No |
| **Lead and Copper Sampling at Residential Taps** | | | | | 90TH PERCENTILE | EXCEEDENCE | | |
| Lead | 8/26/2010 | ppb | AL=15 | | 5 | 0 | Corrosion of household plumbing systems | No |
| Copper | 8/26/2010 | ppm | AL=1.3 | | 0.0237 | 0 | Corrosion of household plumbing systems | No |

*As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations are not expected to vary significantly from year to year. Some of our data, though representative, are more than one year old.
# Samples are taken daily

## KEY TO TABLE

ppm = parts per million, or milligrams per liter (mg/L)
ppb = parts per billion, or micrograms per liter (ug/L)
ND = none detected
pci/L = Pico curies per liter : a measure of radioactivity

NTU = Nephelometric turbidity units
umho/cm = micromhos per centimeter (a measure of conductivity)
obsvns = observations/field at 100 power

**Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. For lead and copper the Action Level is exceeded if the 90th percentile value exceeds the Action Level. Thirty two sites were sampled and no sites exceeded the Action level for lead or copper.

** **Turbidity** is a measure of the cloudiness of water. We monitor it because it is a good measure of the effectiveness of our filtration system. Turbidity has no health effects, however it can interfere with disinfection or provide a medium for microbial growth. Compliance is determined by the percentage of samples that meet the limit of 0.3 NTU.

**Highest Compliance Level:** The highest level of that contaminant used to determine compliance with a National Primacy Drinking Water Regulation.