



Water Quality Report 2009

Township of Franklin

Dear Water Consumer:

This 2009 Water Quality Report is an annual report to all water consumers on the quality of water provided by the Township of Franklin. This report meets the Federal Safe Drinking Water Act requirements for Consumer Confidence Reports.

This 2009 Water Quality report provides our customers with information on the sources of our drinking water, our water system, applicable health information and the concentrations of detected contaminants with a comparison to water quality regulations.

We encourage you to read this report and study the water quality test results for the 2009 calendar year. We hope you find this report informative and that the information provides you with a better understanding of what is involved in bringing high quality water to your faucet.

The Township of Franklin is committed to providing our customers with high quality drinking water and information about the drinking water that we provide. We are pleased to report that, during the 2009 calendar year, our drinking water met all federal and state water quality standards.

If you would like additional information or if you have any questions concerning this report, feel free to call the Township Water Department at 732.249.7800. You can also call the EPA Safe Drinking Water Hotline at 800.426.4791 for further information.

Sincerely,
Joseph Yacone
Utilities Manager
Township of Franklin

English

This report contains important information about your drinking water. If you do not understand it, please have someone translate it for you.

Spanish

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien.

Gujarati

આ અહેવાલ મેં તમારા પીવાના પાણી વિષે સહગત્ય ની જાણકારી આપવા મેં આવી છે. એનો અનુવાદ કરો અથવા જેને સમજાવો તેણી વડે તેના અર્થ બાત કરો



Annual Drinking Water Quality Report

Franklin Township

For the Year 2010, Results from the Year 2009

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our water sources are surface and well water from New Jersey American Water Company, the Township of South Brunswick Water Department, the North Brunswick Water Department and the New Brunswick Water Department. The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for all of these public water systems, which are available at WWW.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. You may also contact your public water system to obtain information regarding the Source Water Assessments.

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 from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

The Franklin Township Water Department and all of its suppliers routinely monitor for contaminants in your drinking water according to Federal and State laws. The tables show the results of ours and our suppliers monitoring for the period of January 1st to December 31st, 2009. The state allows all of us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative, are more than one year old.

Franklin Township Year 2009 Test Results						
Contaminant	Violation Y/N	Level Detected	Units of Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants:						
Barium Test results Yr. 2009	N	0.03	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper Test results Yr. 2008	N	0.25 1 sample out of 52 exceeded the action level	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride Test results Yr. 2009	N	0.1	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead Test results Yr. 2008	N	3 1 sample out of 52 exceeded the action level	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen) Test results Yr. 2009	N	1.9	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Volatile Organic Contaminants – Disinfection Byproducts						
TTHM Total Trihalomethanes Test results Yr. 2009	N	Range = 8 - 47 Annual Average = 22	ppb	N/A	80	By-product of drinking water disinfection
HAA5 Haloacetic Acids Test results Yr. 2009	N	Range = 2 - 29 Annual Average = 12	ppb	N/A	60	By-product of drinking water disinfection
Regulated Disinfectants		Level Detected		MRDL		MRDLG
Chlorine		Average = 0.2		4.0 ppm		4.0 ppm
Microbiological Contaminants						
Total coliform Bacteria	N	3 positive samples in May 2009		0	5% of monthly samples	Naturally present in the environment

Out of the fifty Total Coliform Bacteria samples taken in May 2009, three were positive. This exceeded the number of allowable positive results. All of the other months in 2009 we were in compliance. We believe that this was a possible sampling technique error, as all of our confirmation samples were negative. Total Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.

New Jersey American Water Company (Raritan System) Year 2009 Test Results						
Contaminant	Violation Y/N	Level Detected	Units of Measurement	MCLG	MCL	Likely Source of Contamination
Radioactive Contaminants						
Alpha emitters	N	0.4	pCi/l	0	15	Erosion of natural deposits
Combined Radium 226 & 228	N	0.7	pCi/l	0	5	Erosion of natural deposits
Inorganic Contaminants:						
Arsenic	N	Range = ND – 2 Highest detect = 2	ppb	n/a	5	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	N	Range = 0.04 – 0.3 Highest detect = 0.4	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper Test results Yr. 2007	N	0.5 1 samples out of 51 exceeded the action level	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride	N	Range = ND – 0.7 Highest detect = 0.7	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead Test results Yr. 2007	N	10 1 samples out of 51 exceeded the action level	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen)	N	Range = 0.8 – 5.9 Highest detect = 5.9	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Volatile Organic Contaminants / Disinfection Byproducts						
TTHM Total Trihalomethanes	N	Range = 25 – 65 Average = 45	ppb	N/A	80	By-product of drinking water disinfection
HAA5 Haloacetic Acids	N	Range = ND – 44 Average = 16	ppb	N/A	60	By-product of drinking water disinfection
Bromate	N	Range = ND – 3 Highest Detect = 3	ppb	0	10	By-product of drinking water disinfection
Dichloromethane (Methylene chloride)	N	Range = ND – 2 Highest detect = 2	ppb	0	3	Discharge from pharmaceutical and chemical factories
Trichloroethylene	N	Range = ND – 0.6 Highest detect = 0.6	ppb	0	1	Discharge from metal degreasing sites and other factories
Microbiological Contaminants						
Turbidity	N	Range = 0.04 – 0.3 Highest detect = 0.3	NTU	n/a	TT <0.3 in 98% of monthly samples	Soil runoff
Total Organic Carbon	N	Range = 1.0 – 3.5 Highest detect = 3.5	ppm	n/a	TT	Naturally present in the environment
Regulated Disinfectants		Level Detected	MRDL		MRDLG	
Chloramines		Range = 0.4 – 0.8	4.0 ppm		4.0 ppm	

Secondary Contaminant	Level Detected	Units of Measurement	RUL
Manganese	Range = ND – 100	Ppb	50
Sodium	Range = 12 - 62	Ppm	50

We exceeded the secondary Recommended Upper Limit (RUL) for manganese which is based on staining of laundry. Manganese is an essential nutrient, and toxicity is not expected from levels which would be encountered in drinking water.

We exceeded the secondary Recommended Upper Limit for Sodium. For healthy individuals the sodium intake from water is not important, because a much greater of sodium takes place from salt in the diet. However sodium levels above the Recommended Upper Limit (RUL) may be of concern to individuals on a sodium restricted diet.

Unregulated Contaminants						
N-nitrosopyrrolidine	N	Range ND – 0.02	ppb	N/A	N/A	

During 2009 the New Jersey American Water company participated in the Unregulated Contaminant Monitoring Rule. Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

South Brunswick Year 2009 Test results

In 2009 all of South Brunswick's water was purchased directly from the NJ American Water Company. Their test results are listed above

City of New Brunswick Year 2009 Test Results						
Contaminant	Violation Y/N	Level Detected	Units of Measurement	MCLG	MCL	Likely Source of Contamination
Radioactive Contaminants						
Radium-228 Test results Yr. 2006	N	1.3	pCi/l	N/A	N/A	Decay of natural and man-made deposits
Combined Radium Test results Yr. 2006	N	1.3	pCi/l	0	5	Decay of natural and man-made deposits
Uranium Test results Yr. 2006	N	2.2	pCi/l	0	30	Decay of natural and man-made deposits
Inorganic Contaminants:						
Barium	N	0.05	Ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cyanide	N	4	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Nitrate (as Nitrogen)	N	1	Ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Volatile Organic Contaminants:						
Vinyl Chloride	N	0.3	ppb	0	2	Leaching from PVC piping; discharge from plastics factories
Microbiological Contaminants						
Turbidity	N	100% sites < 0.3		n/a	TT	Soil runoff
Regulated Disinfectants		Level Detected		MRDL		MRDLG
Chlorine		Range = 0.3 – 0.7		4.0 ppm		4.0 ppm
Secondary Contaminant		Level Detected		Units of Measurement		RUL
Manganese		60		Ppb		50

We exceeded the secondary Recommended Upper Limit (RUL) for manganese, which is based on staining of laundry. Manganese is an essential nutrient, and toxicity is not expected from levels which would be encountered in drinking water.

City of North Brunswick Test Results Year 2009						
Contaminant	Violation Y/N	Level Detected	Units of Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants:						
Barium	N	0.04	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	N	< 0.25	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as Nitrogen)	N	1	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Copper Test results Yr. 2007	N	0.13 No samples exceeded the action level	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead Test results yr. 2007	N	6 2 samples out of 31 exceeded the action level	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Volatile Organic Contaminants / Disinfection Byproducts						
TTHM Total Trihalomethanes	N	Range = 4 - 82 Highest annual average = 39	ppb	N/A	80	By-product of drinking water disinfection
HAA5 Haloacetic Acids	N	Range = 6 - 55 Highest annual average = 27	ppb	N/A	60	By-product of drinking water disinfection
Microbiological Contaminants						
Turbidity	N	Highest detect = 0.7 98% lowest monthly avg.		n/a	TT	Soil runoff
Radioactive Contaminants						
Alpha emitters Test results Yr. 2005	N	Range = 1.5 – 2.3 Highest detect = 2.3	pCi/l	0	15	Erosion of natural deposits
Radium 228 Test results Yr. 2005	N	Range = ND – 2.1 Highest detect = 2.1	pCi/l	0	N/A	Erosion of natural deposits
Radium 226 Test results Yr. 2005		Range = ND – 0.8 Highest detect = 0.8	pCi/l	0	N/A	Erosion of natural deposits
Regulated Disinfectants		Level Detected		MRDL		MRDLG
Chlorine		Range = 0.2 – 2.5		4.0 ppm		4.0 ppm

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds reservoirs, springs, and wells. As

DEFINITIONS

In the following table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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.

Maximum Contaminant Level Goal -The "Goal"(MCLG) is 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.

Secondary Contaminant- Substances that do not have an impact on health. Secondary Contaminants affect aesthetic qualities such as odor, taste or appearance. Secondary standards are recommendations, not mandates.

Recommended Upper Limit (RUL) – Recommended maximum concentration of secondary contaminants. These reflect aesthetic qualities such as odor, taste or appearance. RUL's are recommendations, not mandates.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Goal (MRDLG): The level of a drinking water disinfectant, below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination

Lead: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Franklin Township and all of its drinking water suppliers are responsible for providing high quality drinking water, but can not control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 second to 2 minutes before using water for drinking and cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water hotline or at <http://www.epa.gov/safewater/lead>.

If you have any questions about this report or concerning your water utility, please contact Franklin Twsp. Public Works at 732-873-2500 ext. 290. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Town Council meetings.

We all work hard to provide top quality drinking water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.