HIGHLAND PARK

2010 Drinking Water Quality Report

INTRODUCTION

The City of Highland Park is pleased to present its Annual Water Quality Report for the period of January 1 to December 31, 2009. This report, as required by Federal law, is designed to inform all customers about the quality of water and services that are delivered each day. The City of Highland Park is pleased to report that last year, as in years past; your tap water met all U.S. Environmental Protection Agency (USEPA) and state drinking water health standards. There were no water quality violations recorded during 2009, nor were there any samples over the Maximum Contaminant Levels (MCL). The City's continuing goal is to provide all of its consumers with a safe and dependable supply of drinking water. As part of this process, the City wants all customers to understand the efforts that are continually being made to improve the water treatment process and to protect water resources. In short, the City of Highland Park is committed to ensuring the quality of your water.

EPA SOURCE WATER ASSESSMENT COMPLETED

In 2002 Illinois EPA (IEPA) conducted a federally mandated Source Water Assessment of Highland Park, and it is available to consumers by contacting the Water Plant at 847-433-4355. IEPA has determined that Lake Michigan has some of the best drinking water quality in the state. Also, IEPA has determined that sources of potential contaminants for Highland Park intakes include sediment, shoreline erosion, wet weather sewer overflows, wastewater treatment bypasses, stormwater runoff, and air deposition. Some of the potential contaminants are: inorganic compounds, synthetic organics, and volatile organics. (See: http://www.epa.state.il.us/cgi-bin/wp/swap-factsheets.pl?rm=show_facility_detail&facility_number=0 970500&cws=y)

SOURCE OF HIGHLAND PARK'S DRINKING WATER

The City of Highland Park Water Plant uses surface water drawn from a 54" Intake Pipe located one mile from shore in Lake Michigan. This Intake Pipe is situated in 30 feet of water, adjacent to two smaller pipes that are 20 and 16 inches in diameter, which also feed water to the filtration plant.

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or are man made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).



CONTAMINANTS MONITORING RESULTS

The City of Highland Park Water Plant routinely monitors drinking water for these constituents, in accordance with State and Federal laws. The table below lists all of the drinking water contaminants that we **detected** during the period between January 1 and December 31, **2009.** Again, the presence of contaminants in the water does not necessarily indicate that the water poses a health risk.

The sources of drinking water (both tap water 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 can dissolve naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Possible contaminants consist of:

Microbial Contaminants, such as viruses and bacteria, which 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 framing;

Pesticides and herbicides, which 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems;

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

In order to ensure that tap water is safe to drink, USEPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.



ABOUT THE DATA

Turbidity – Turbidity is a measure of the cloudiness of the water caused by suspended particulates and is monitored because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Sodium – There is not a federal or state MCL for sodium. Monitoring is required information to consumers and health officials that are concerned about sodium intake due to dietary precautions. If the level is greater than 20 ppm, and you are on a sodiumrestricted diet, you should consult a physician.

Unregulated Contaminants – A maximum contaminant level (MCL) for this contaminant has not been established by either state or federal regulations, nor has mandatory health effects language. The purpose for monitoring this contaminant is to assist USEPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

Lead and Copper - The City of Highland Park is in full compliance with all State and Federal regulations governing the control of lead and copper within public drinking water supplies. 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. The City of Highland Park is responsible for providing high quality drinking water, but cannot 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 seconds to 2 minutes before using water for drinking or 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.

In addition to the contaminants listed in the following table, the City of Highland Park tested for the presence of 69 other contaminants which were not detected during this calendar year. These contaminants include 13 Inorganic Compounds (i.e. Mercury, Cyanide), 34 Synthetic Organic Compounds (i.e. Polychlorinated Biphenyls (PCB's)), and 22 Volatile Organic Compounds (i.e. Benzene). Results may be obtained by calling the contact listed at the end of this report.

LEAD AND COPPER

The City of Highland Park is in full compliance with all state and federal regulations governing the control of lead and copper within public drinking water supplies, water was last sampled in 2008.

Lead MCLG	Lead Action Level (AL)	Your Water	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	V TOUL Water	#Sites Over Copper AL	Likely Source of Contamination
0	15 ppb	7.44 ppb	1	1.3 ppm	1.3 ppm	0.334 ppm	0	Corrosion of household plumbing systems; Erosion of natural deposits
Additio	nal Conta	MINANTS						
Contaminant			State M	State MCL Your Water			1.00	Explanation and comment
Sulfate			500 pp	m 27 ppr	m	NO		Erosion of natural deposits

NO 500 ppm 27 ppm Erosion of natural deposits

The "Level Found" column represents the highest sample result collected during the calendar year, unless otherwise noted. The "Range" column represents a range of individual sample results, from lowest to highest that were collected during the calendar year. The "Sample Date" column will show the year the sample was most recently analyzed. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The "Violation" column will indicate whether or not a violation occurred with each contaminant that was detected. The "Typical Source" information lists where contaminants may originate.

			2009 WAT	AND PROPERTY AND			
Contaminant (units)	EPA EPA MCLG MCL		Highland Park highest Level Found	Range of Violation detection Yes/NO			Typical Source of Contamination
MICROBIOLOGICAL CONTAMIN	IANTS						
Turbidity (NTU)	n/a	0.3	100%	n/a	NO	2009	Soil runoff.
100% of the samples were below the TT value of 0.3 NTU.	A value less	s than 95% c	onstitutes a TT violation. The h	ighest single measu	rement was 007	7 NTU. Any measurement in	excess of 1 NTU is a violation unless otherwise approved by the state.
Total Coliform (positive samples/month)	0	1	1	n/a	NO		Naturally present in the environment.
RADIOACTIVE CONTAMINANTS							
Alpha emitters (pCi/L)	0	15	0.6	n/a	NO	2007 - 00	Erosion of natural deposits
Radium (combined 226/228 (pCi/L) 0	5	0.1	n/a	NO	2007	Erosion of natural deposits
INORGANIC CONTAMINANTS							
Barium (ppm)	2	2	0.017	0.017-0.017	NO	2009	Discharge of drilling wastes;
							Discharge from metal refineries;
			P. 1		1. de 1	the set of the set of the	Erosion of natural deposits.
Fluoride (ppm)	4	4	1.2	1.2-1.2	NO	2009	Water additive which promotes
							strong teeth
Nitrate (measured as Nitrogen)	10	10	0.33	0.33-0.33	NO	2009	Runoff from fertilizer use;
(ppm)							Leaching from septic tanks, sewage;
			ursion 1.1 ab Setup				Erosion of natural deposits.
DISINFECTION/DISINFECTION	I BY-P	RODU	CTS				
Chloramines (as C12) (mg/L)	4	4 - 5,000	1330 1.39	0.04-1.39	NO	2009	Water additive used to control microbes.
Haloacetic Acids (HAA5) {ppb}	n/a	60	TU = 0.084 10 30.00	0-2.8	NO	2009	By-product of drinking water chlorination
TTHM [Total Trihalomethanes] (ppb)	n/a	80	4.03 0.68 16 20.00	13-17	NO	2009	By-product of drinking water chlorination
Total Organic Carbon	n/a	TT	5.23 n/a	n/a	NO	2009	Naturally present in the environment.

Note: Some sample results for regulatory compliance are based on a running annual average of quarterly samples, therefore; the result is not the highest level detected. This is the case for TTHMs and HAA5. The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set.

STATE REGULATED CONTAMINANT NO Erosion of natural deposits; leaching Sodium (ppm) MPL 6.9 6.9 PRINCETON

DEFINTIONS

In the below, 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:

Unit Descriptions

mg/L - **milligrams per liter** or the number of milligrams of substance in one liter of water.

ppm - Parts per million or Milligrams per liter (mg/L).

ppb - Parts per billion or Micrograms per liter (Ìg/L).

pCi – picocuries per liter, used to measure radioactivity.

NTU - Nephelometric Turbidity Unit, used to measure the cloudiness in drinking water.

Positive samples/month – number of samples taken monthly that were found to be positive.

NA – not applicable

ND – not detected

Drinking Water Definitions

TT - **Treatment Technique** or a required process intended to reduce the level of a contaminant in drinking water.

MCL - Maximum Contaminant Level or 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.

MCLG - Maximum Contaminant Level Goal or 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.

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

MRDLG – Maximum Residual Disinfection Level Goal or the level of a drinking water disinfectant below which there is no known or expected risk to health.

MRDL – Maximum Residual Disinfectant Level or the highest level of a disinfectant allow in drinking water.

MPL – Maximum Permissible Level that is state assigned

ADDITIONAL INFORMATION

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. USEPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbiological contaminants are available from the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

CONSERVATION TIPS

Did you know that the average U.S. household uses approximately 400 gallons of water per day? Luckily, there are many low-cost or no-cost ways to conserve water. Small changes can make a big difference. Try one today and soon it will become second nature. Water your lawn at the least sunny times of the day. Fix toilet and faucet leaks. Take short showers - a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath. Turn the faucet off while brushing your teeth and shaving; 3-5 gallons go down the drain per minute. Use a water-efficient showerhead. They are inexpensive and can save you up to 750 gallons a month. Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month. Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill! For more water saving ideas, please visit the USEPA "Water Sense" web page at http://www.epa.gov/watersense/water_efficiency/cons.html.



For more information about this report or your water utility in general, please contact: Don Jensen, Water Plant Superintendent City of Highland Park 1707 St Johns Avenue Highland Park, IL 60035 (847) 433-4355 djensen@cityhpil.com www.cityhpil.com