New Baltimore Mi. 48047 City of New Baltimore Water Dept

City of New Baltimore

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City of New Baltimore



2012 Consumer Confidence Report

Our Goal

The City of New Baltimore Water Department strives to produce the highest quality water for our customers. This report will cover the source of our water, list the results of our tests, and give you important information about water and health.

Due to the introduction of zebra mussel, the clarity of the lake water has improved greatly. With the clear water comes increased algae blooms, which cause taste and odor problems. The earthy, musty taste associated with algae blooms does not pose a health risk, but creates an unpleasant taste and odor to the water. Powdered activated carbon is being added to our water to eliminate taste and odor problems.

SOURCE WATER ASSESSMENT

The purpose of the Source Water Assessment is to analyze the sensitivity and determine susceptibility of a community's source of drinking water to potential sources of contamination.

Sensitivity is determined from the natural setting of the source water (raw water to the water treatment plant), and indicates natural protection afforded the source water.

Using procedures established in the Great Lakes Protocol, Michigan Source Water Assessment Program, and the results of a two-dimensional hydrodynamic model of the St. Clair River-Lake St. Clair-Detroit River Waterway, and considering the effects of flow and mixing in the St. Clair River, the New Baltimore Water Treatment Plant intake has a high degree of sensitivity to potential contaminants. When the effects of lake currents in Lake St. Clair are considered, the New Baltimore intake has a high degree of sensitivity to potential contaminants. Susceptibility identifies factors within the community's source water area that may pose a risk to the water supply. The susceptibility determination provides information with respect to listed facilities and land areas within the source water area that should be given greater priority and oversight in implementing a source water protection program.

The source water area for the New Baltimore intake was delineated using the results of a twodimensional hydrodynamic model of the St. Clair River-Lake St. Clair - Detroit River Waterway and an associated particle tracker. Backtracking theoretical particles from the intake up current to adjacent shorelines defined the contributing shoreline area. The source-water area includes 26 potential contaminant sources, 16 listed potential contaminant sources within the susceptible area, numerous storm-sewer drainage areas, urban and agricultural runoff from Marsac and Crapeau Creeks, the Lake St. Clair and upstream watersheds, and shipping in Lake St. Clair. These potential contaminant sources and commercial and transportation activities, in combination with the highly sensitive intake, indicate that the New Baltimore source water is highly susceptible to potential contamination.

The New Baltimore source water is highly susceptible, given land uses and potential contaminant sources, and commercial and transportation activities within the source water area. However, historically, the New Baltimore Water Treatment Plant has effectively treated this source water to meet drinking water standards. The City of New Baltimore has instituted pollution prevention programs, but should also be cognizant of additional potential threats to its source of drinking water identified in this report. This report explains the background and basis for these determinations.

SUBSTANCES FOUND IN SOURCE WATER

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 dissolves naturally occurring minerals and radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production or farming.

LEAD AND COPPER

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 New Baltimore Water Department 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 1-800-426-4791 or at http://www.epa.gov/drink/info.

INFORMATION FOR VULNERABLE POPULATIONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune compromised people such as a person undergoing chemotherapy, having undergone an organ transplant, have 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. Federal guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are also available from the EPA'S safe drinking water hotline, 1-800-426-4791.

HEALTH AND SAFETY INFORMAION

Drinking water, including bottled water may be reasonably expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily pose a health risk. The sources of both tap and bottled drinking water include rivers, lakes streams, ponds, reservoirs, springs and wells. As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and in some cases radioactive material and also substances resulting from animal or human activity.

WHERE WE'RE HEADING

The City of New Baltimore does not have any watering restrictions. Sprinkler meters are available at City Hall. We have upgraded our plant from a rapid sand filtration plant to a membrane filtration plant. Membrane filtration is the newest most advanced form of filtration available. The company supplying us with this new technology is G.E., you can visit their website for information on membrane filtration at www.ge.com. We have also increased our treatment capacity from 2 MGD (Million Gallons per Day) to 6 MGD. We are very proud of this upgrade and the new technology.

WE WANT TO HEAR FROM YOU

The City of New Baltimore council meets the second and fourth Monday of every month at the New Baltimore city hall at 7:00 p.m. The meetings are open to the public. If you have any questions about your bill please visit us at www.cityofnewbaltimore.org or call (586) 725-2151 ext. 111.

If you have any questions regarding the information in this report or our expansion please don't hesitate to call Andrew Messina jr. at (586) 725-7300. Again thank you for letting us serve you.

KEY TERMS

- MCLG Maximum Contaminant Level Goal

 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.
- MCL Maximum Contaminant Level 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.
- MRDLG Maximum Residual Disinfectant Level Goal – The level of a drinking water disinfectant below which there is a known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- MRDL Maximum Residual Disinfectant
 Level 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.
- Ppb Parts per Billion (one in a billion) The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
- **Ppm Parts per million (one in a million)** The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.
- NTU Nephelometric Turbidity Units Measures the cloudiness of water
- **TT Treatment technique** A required process intended to reduce the level of a contaminant in drinking water.
- AL Action Level The concentration of a contaminant, which, if exceeded, triggers treatment of other requirements which a water system follow.
- HAA5 Haloacetic Acids The total of monochloroacetic, dichloroacetic, trichloroacetic, monobromoacetic, and dibromoacetic acids. Compliance is based on the total.
- TTHM Total Trihalomethanes The sum of chloroform, bromodichloromethane, dibromochloromethane, and bromoform. Compliance is based on the total.

Regulated Contaminant	MCLG	MCL	Detection	Range	Highest Avg.	Violation	Typical Source
gaiatoa contaminant			Detection Range Regulated Inorganic Paramete			Tiolation	1 36.301 000100
	Jan. to		Regulated Inorg	gariic i arainetei	з (ррпі)		water additive, which
	Dec.						promotes strong teeth
Fluoride (ppb)	4	4	.15-1.	.26	1.02	No	erosion
(PPa)	-	-					Runoff from fertilizer
							Leaching from septic
Nitrate	10	10	Not Detected	N/A	N/A	No	Erosion
ivitiate	10	10		Organic Parame	-	INU	LIUSIUII
	NA		Regulated C	Jiganic Faranie	:1615		Dy product of
Tatal Tabalana dhan a ƙarab		0.00	0.00	70	N1/A	NI.	By-product of
Total Trihalomethanes (ppb)	09/13/2011	0.08	0.027	79	N/A	No	Chlorination
	NA						By-product of
HAA5 Haloacetic Acid (ppb)	09/13/2011	0.06	0.01	4	N/A	No	Chlorination
Oblasia (ana)	MRDLG	MRDLG	40.4	40	0.05	NI-	Water Additive Used
Chlorine (ppm)	4	4	.10-1.		0.95	No	to control microbes
			y - Monitored ever				
Highest single Measur	Lowest Monthly % of Samples Meeting			•	Violation	Typical Source	
Cannot exceed 1 N	TU	Turbidity Limit of 0.3 NTU (minimu		n 95%)			
.52			10	0%		No	Soil Runoff
Turbidity is the cloudiness caus	sed by the pres	sence of susp	oended solids in w	ater.			
We monitor the turbidity becau	se it is a good	indicator of t	he effectiveness of	f our filtration sy	rstem		
		SI	oecial Monitoring a	and Unregulated	l Parameters		
Unregulated Contaminant*	MCLG	MCL	Date	Level D	etected	Violation	Typical Sources
Sulfate	N/A	N/A	9/10/12	13	opm	No	
Hardness as CaCO3	N/A	N/A	9/10/12		opm	No	
Chloride	N/A	N/A	9/10/12	''		No	
Sodium	N/A	N/A	9/10/12	9ppm		No	Erosion
Coalain			I Contaminants - N			L	21001011
	MCLG	MCL		st Number Dete		Violation	Typical Sources
Contaminant		_		st Number Dete	cieu	Violation	Naturally present
Contaminant							I Naturally present
Contaminant		Presence of					
		bacteria >	5% of monthly				in the environment
Total Coliform Bacteria	0	bacteria > samples	5% of monthly		nonth 0%	No	
	0	bacteria > samples A routine s	5% of monthly ample and a	In enti	re year	No	Human waste and
Total Coliform Bacteria		bacteria > samples A routine s repeat sam	5% of monthly ample and a	In enti		No No	
Total Coliform Bacteria E.coli or fecal coliform	0	bacteria > samples A routine s repeat sam	5% of monthly ample and a	In enti	re year		Human waste and
Total Coliform Bacteria E.coli or fecal coliform	0	bacteria > samples A routine s repeat sam	5% of monthly ample and a uple are total sitive, and one	In enti	re year		Human waste and
Total Coliform Bacteria E.coli or fecal coliform	0	bacteria > samples A routine s repeat sam coliform po	5% of monthly ample and a uple are total sitive, and one	In enti	re year		Human waste and
Total Coliform Bacteria E.coli or fecal coliform	0	bacteria > samples A routine s repeat sam coliform pois also feca	ample and a apple are total sitive, and one all or <i>E.coli</i>	In enti	re year O		Human waste and
Total Coliform Bacteria E.coli or fecal coliform	0	bacteria > samples A routine s repeat sam coliform pois also feca	ample and a apple are total sitive, and one all or <i>E.coli</i>	In enti	re year O		Human waste and
Total Coliform Bacteria E.coli or fecal coliform	0	bacteria > samples A routine s repeat sam coliform pois also feca positive	5% of monthly ample and a uple are total sitive, and one al or <i>E.coli</i>	In enti	re year O		Human waste and
Total Coliform Bacteria E.coli or fecal coliform	0 0	bacteria > samples A routine s repeat sam coliform pois also feca positive Health	ample and a apple are total sitive, and one al or <i>E.coli</i> Lead and Action Level	In enti	re year O ing Number of		Human waste and
Total Coliform Bacteria E.coli or fecal coliform bacteria	0 0	bacteria > samples A routine s repeat sam coliform pois also feca positive Health	ample and a apple are total sitive, and one al or <i>E.coli</i> Lead and Action Level	In enti	ing Number of samples	No	Human waste and animal fecal waste.
Total Coliform Bacteria E.coli or fecal coliform bacteria Contaminant Lead	0 0 Test Date June to	bacteria > samples A routine s repeat sam coliform pois also feca positive Health	ample and a apple are total sitive, and one al or <i>E.coli</i> Lead and Action Level	In enti	ing Number of samples	No	Human waste and animal fecal waste. Typical Sources Corrosion of
Total Coliform Bacteria E.coli or fecal coliform bacteria Contaminant	0 Test Date June to Sept.	bacteria > samples A routine s repeat sam coliform pois also feca positive Health Goal	ample and a apple are total sitive, and one al or <i>E.coli</i> Lead and (Action Level AL	Copper Monitor 90th Percentile Value*	ing Number of samples over AL	No	Human waste and animal fecal waste. Typical Sources Corrosion of household plumbing,
Total Coliform Bacteria E.coli or fecal coliform bacteria Contaminant Lead (ppm)	0 Test Date June to Sept. 2011	bacteria > samples A routine s repeat sam coliform pois also feca positive Health	ample and a apple are total sitive, and one al or <i>E.coli</i> Lead and Action Level	In enti	ing Number of samples	No	Typical Sources Corrosion of household plumbing, Erosion of natural
Total Coliform Bacteria E.coli or fecal coliform bacteria Contaminant Lead (ppm) Copper	0 Test Date June to Sept. 2011 June to	bacteria > samples A routine s repeat sam coliform pois also feca positive Health Goal	ample and a apple are total sitive, and one al or <i>E.coli</i> Lead and (Action Level AL	Copper Monitor 90th Percentile Value*	ing Number of samples over AL	No	Typical Sources Corrosion of household plumbing, Erosion of natural Deposits. Leaching
Total Coliform Bacteria E.coli or fecal coliform bacteria Contaminant Lead (ppm)	0 Test Date June to Sept. 2011 June to Sept.	bacteria > samples A routine s repeat sam coliform pois also feca positive Health Goal	5% of monthly ample and a uple are total sitive, and one al or <i>E.coli</i> Lead and Action Level AL	Copper Monitor 90th Percentile Value*	ing Number of samples over AL	Violation No	Typical Sources Corrosion of household plumbing, Erosion of natural Deposits. Leaching of Wood
Contaminant Lead (ppm) Copper (ppb)	O Test Date June to Sept. 2011 June to Sept. 2011	bacteria > samples A routine s repeat sam coliform pois also feca positive Health Goal 0	5% of monthly ample and a apple are total sitive, and one al or <i>E.coli</i> Lead and 0 Action Level AL 15	Copper Monitor 90th Percentile Value*	ing Number of samples over AL 0	Violation No	Typical Sources Corrosion of household plumbing, Erosion of natural Deposits. Leaching
Total Coliform Bacteria E.coli or fecal coliform bacteria Contaminant Lead (ppm) Copper	0 Test Date June to Sept. 2011 June to Sept. 2011 ans 90 percent	bacteria > samples A routine s repeat sam coliform pois also feca positive Health Goal 0 1300 of the home	ample and a apple are total sitive, and one all or <i>E.coli</i> Lead and Action Level AL 15 1300 Is tested have lead	Copper Monitor 90th Percentile Value* 0 16 and copper lev	ing Number of samples over AL 0	Violation No	Typical Sources Corrosion of household plumbing, Erosion of natural Deposits. Leaching of Wood

Test results for 2012