

WATER QUALITY REPORT

2013

The Water We Drink

In 1998, a new Federal rule was passed to ensure that consumers of community water supplies receive annual documentation of drinking water quality. At the Village of Romeo, our goal is to provide you with safe and dependable drinking water. Therefore, we are pleased to have this opportunity to inform you about the quality of the water that was provided to you.

In 2004, the State performed an assessment of our source water in order to determine the susceptibility or the relative potential of contamination. The susceptibility rating is on a seven-tiered scale from “very-low” to “high” based primarily on geologic sensitivity, water chemistry and contaminant sources. The Village of Romeo gets its water from several ground water wells. Water supplied to the Industrial Park comes from Detroit Water and Sewer, which is the Lake Huron Water Treatment Plant. Based on the seven-tiered scale, the susceptibility of Romeo’s source is “moderately-low” and “moderate” for our wells. The susceptibility of the Detroit River source water intake was determined to be “highly” susceptible to potential contamination. However, all four Detroit water treatment plants that use source water from the Detroit River have historically provided satisfactory treatment of this source water to meet drinking water standards. If you would like to know more about these reports, you can contact the Village Office or you can visit the Detroit Water and Sewerage Department’s website at www.dwsd.org or contact semegen@dwsd.org.

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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency’s (EPA) Safe Drinking Water Hotline (800) 426-4791.

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 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, mining or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

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

Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also, come from gas stations, urban storm water runoff, and septic systems.

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

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 systems 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 microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

In accordance with Federal and State laws, the Village of Romeo routinely monitors for contaminants in your drinking water. The following tables on this report show the results of our monitoring for the period of January 1st through December 31st, 2013, unless otherwise noted.

The Results: At this time, we are able to report that according to the test results, your drinking water meets all Federal and State requirements for quality and safety and that all monitoring and reporting requirements were met for 2013.

Additional Testing

Arsenic Testing

On January 22, 2001, the new Arsenic Regulation was published in the Federal Register. The new rule changes the Maximum Contaminant Level (MCL) for arsenic from 0.05 milligrams per liter (mg/L) to 0.010 mg/L or 10 parts per billion (ppb). The rule applies to all Type 1 water systems and became effective January 23, 2006.

Arsenic is a naturally occurring mineral and its presence in water is caused from erosion of natural deposits. During 2011, the Village of Romeo's systems wells were sampled and were found to be in compliance with the new maximum contaminant level.

Lead and Copper Testing

The Village of Romeo has been working in conjunction with the Michigan Department of Environmental Quality to test the homes for Lead and Copper contaminants in our water supply system. *All tests indicate the water supply has tested far below the action level.*

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 and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

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 Village of Romeo 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>.

Key to Detected Contaminants Tables

| Symbol | Abbreviation for | Definition / Explanation |
|--------|---|--|
| > | Greater than | |
| AL | Action Level | The concentration of a contaminant, which, if exceeded, trigger treatment or other requirements which a water system must follow. |
| HAA5 | Haloacetic Acids | HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic and trichloroacetic acids. Compliance is based on the total. |
| LRAA | Locational Running Annual Average | |
| MCL | Maximum Contaminant Level | 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 | The level of contaminant in drinking water below which there is no known or expected risk to health. |
| 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. |
| MRDLG | Maximum Residual Disinfectant Level Goal | 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 contaminants. |
| n/a | Not Applicable | |
| ND | Not Detected | |
| NTU | Nephelometric Turbidity Units | Measures the cloudiness of water. |
| ppb | Parts per billion (one in one billion) | The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram. |
| ppm | Parts per million (one in one million) | The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram. |
| RAA | Running Annual Average | |
| TT | Treatment Technique | A required process intended to reduce the level of a contaminant in drinking water. |
| TTHM | Total Trihalomethanes | Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromochloromethane and bromoform. Compliance is based on the total. |

News from the Department of Public Works (DPW)

- **Moving & Account Updates** - it is your responsibility to call the DPW to request a Final Bill for water/sewer. We require a minimum of a 24-hour notice to generate any Final Bill. For any account updates, such as name or address changes, please submit a written request either to the Village Clerk's Office or the DPW.
- **Meter Repairs & Maintenance** - it is sometimes necessary and requires entry into the facility. Letters are sent to those locations in need of repairs. If you receive a letter requesting to make an appointment, please contact our offices as soon as possible in order so that we may keep our records up to date and current.
- **Non-Emergency Water Requests** - The Department of Public Works will no longer schedule any after-hour non-emergency water requests such as having your water turned on and/or off. The DPW hours are 7:00 am – 3:30 pm, Monday through Friday. All non-emergency water requests should be scheduled during normal business hours. *For all after-hour water and/or sewer emergencies, please contact the Romeo Police Department at (586) 752-3587.*

For Your Information

The **Village Clerk's Office** is located at 121 W. St. Clair. The office hours are 9:00 a.m. through 5:00 p.m., Monday through Friday. Water Bills can be paid at the Village Clerk's Office. At this time, credit card payments are NOT accepted. Additional copies of this report can be requested by calling the Department of Public Works or sending a written request.

The Village of Romeo **Department of Public Works** is located at 70350 Powell Road between 32 Mile Road and 33 Mile Road. The office hours are 7:00 a.m. to 3:30 p.m., Monday through Friday. Any questions regarding your water/sewer bills should be directed to Donna DeNise at (586) 752-2684.

Visit the Village Website: We encourage residents to visit our website for information regarding the different departments and committees within the Village of Romeo. www.villageofromeo.org.

Attend a Council Meeting: In an attempt to keep our valued customers aware of their utility as well as any changes that may be occurring we invite you to one of our regularly scheduled council meetings. The meetings are held at the Romeo Community Center, 361 Morton Street, at 7:30 p.m. on the third Monday of each month. All are welcome!

PUBLIC NOTICES

Sprinkling Restrictions: In an ongoing effort to conserve water and alleviate unnecessary strain on the water system the Village of Romeo will continue to implement an odd/even sprinkling restriction. At this time, the restriction is on a voluntary basis, however, should extreme weather conditions warrant, the Village of Romeo may impose mandatory watering restrictions.

Site Addresses: According to the Village of Romeo Ordinance – Michigan Residential Code, all premises must have a site address plainly visible and legible from the street fronting the property. Please be sure your house numbers can be seen from the street for any safety or emergency services.

Sidewalk Repairs & Maintenance: No person shall permit any sidewalk which adjoins property owned by him to fall into a state of disrepair or to be unsafe. Should the Village determine that a sidewalk is unsafe for use, notice may be given to the owner of the lot or premises at which time it shall be the duty of the owner to place the sidewalk in a safe condition. For more detailed information about sidewalk repair & maintenance, see the Village Code of Ordinances on the Village website, under Chapter 38 – Article III Sidewalks.

VILLAGE OF ROMEO TABLE

For 2013

Regulated Detected Contaminants Tables

| Contaminant | Test Date | Units | Health Goal MCLG | Allowed Level MCL | Level Detected | Range of Detection | | Violation Major Sources in Drinking Water |
|---|-----------|-------|------------------|-------------------|----------------|--------------------|------|--|
| | | | | | | Low | High | |
| Inorganic Chemicals – Annual Monitoring at Plant Finished Water Tap | | | | | | | | |
| Fluoride (Wells # 3 & 5) | 8/19/13 | ppm | 4 | 4 | ND | n/a | n/a | Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from |
| Fluoride (Well # 2) | 8/19/13 | ppm | 4 | 4 | .15 | n/a | n/a | fertilizer and aluminum factories. |
| Arsenic (Wells # 3 & 5) | 8/15/11 | ppm | 10 | 10 | ND | n/a | n/a | Erosion of natural deposits; Runoff from Orchards; Runoff from glass and |
| Arsenic (Well # 2) | 8/15/11 | ppm | 10 | 10 | ND | n/a | n/a | Electronics production wastes |
| Nitrate | 8/19/13 | ppm | 10 | 10 | ND | n/a | n/a | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

Disinfectant Residuals and Disinfection By-Products – Monitoring in distribution System

| | | | | | | | | |
|------------------------------|--------------|-----|---------|--------|------|------|------|---|
| Total Trihalomethanes (TTHM) | 8/15/11 | ppb | n/a | 80 | 13 | n/a | n/a | By-product of drinking water chlorination |
| Haloacetic Acids (HAA5) | 8/15/11 | ppb | n/a | 60 | 4 | n/a | n/a | By-product of drinking water disinfection |
| Chlorine Residual | Jan-Dec 2013 | ppm | MRDGL 4 | MRDL 4 | .363 | .273 | .513 | Water additive used to control microbes |

The state allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. All of the data is representative of the water quality, however some are more than one year old.

Microbiological Contaminants – Monthly Monitoring in Distribution System

| Contaminant | MCLG | MCL | Highest Number of Samples Detected | Major Sources in Drinking Water |
|---|------|---|------------------------------------|--|
| Total Coliform Bacteria * | 0 | Presence of Coliform bacteria >5% of monthly samples | 0 | Coliform are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, bacteria may be present. |
| <i>E. coli</i> or fecal coliform bacteria | 0 | A routine sample and a repeat sample are total coliform positive, and one is also fecal or <i>E. coli</i> positive. | 0 | Human waste and animal fecal waste. |

Lead and Copper Monitoring at Customers' Tap

| Contaminant | Test Date | Units | Health Goal MCLG | Action Level AL | 90 th Percentile Value* | Number of Samples Over AL | Major Sources in Drinking Water |
|-------------|-----------|-------|------------------|-----------------|------------------------------------|---------------------------|--|
| Lead | July 2011 | ppb | 0 | 15 | 3 | 0 | Corrosion of household plumbing system; Erosion of natural deposits. |
| Copper | July 2011 | ppm | 1.3 | 1.3 | .3 | 0 | Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives. |

The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

Unregulated Detected Contaminants Tables

| Contaminant | Test Date | Units | MCLG | MCL | Level Detected | Range | |
|-----------------------|-----------|-------|------|------|----------------|-------|------|
| | | | | | | Low | High |
| Sodium (Well # 3 & 5) | 8/19/13 | ppm | none | none | 104 | n/a | n/a |
| Sodium (Well # 2) | 8/19/13 | ppm | none | none | 9 | n/a | n/a |

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.

**Lake Huron Water Treatment Plant
2013 Regulated Detected Contaminants Tables**

| Regulated Contaminant | Test Date | Units | Health Goal MCLG | Allowed Level MCL | Highest Level Detected | Range of Detection | Violation | Major Sources in Drinking Water |
|---|------------|-------|------------------|-------------------|------------------------|--------------------|-----------|---|
| Inorganic Chemicals – Monitoring at Plant Finished Water Tap | | | | | | | | |
| Fluoride | 05/13/2013 | ppm | 4 | 4 | 0.55 | n/a | no | Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories. |
| Nitrate | 05/13/2013 | ppm | 10 | 10 | 0.32 | n/a | no | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |
| Barium | 6/9/2008 | ppm | 2 | 2 | 0.01 | n/a | no | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |

| Disinfection By-Products – Monitoring in Distribution System | | | | | | | | |
|---|-----------|-------|------------------|-------------------|--------------|--------------------|-----------|---|
| Contaminant | Test Date | Units | Health Goal MCLG | Allowed Level MCL | Highest LRAA | Range of Detection | Violation | Major Sources in Drinking Water |
| Total Trihalomethanes (TTHM) | 2013 | ppb | n/a | 80 | | | | By-product of drinking water chlorination |
| Haloacetic Acids (HAA5) | 2013 | ppb | n/a | 60 | | | | By-product of drinking water disinfection |

| Disinfectant Residuals Monitoring in Distribution System | | | | | | | | |
|---|--------------|-------|-------------|---------------|-------------|--------------------|-----------|---|
| Contaminant | Test Date | Units | Health Goal | Allowed Level | Highest RAA | Range of Detection | Violation | Major Sources in Drinking Water |
| Disinfectant Total Chlorine Residual | Jan-Dec 2013 | ppm | MRDGL 4 | MRDL 4 | 0.81 | 0.65-0.93 | no | Water additive used to control microbes |

| 2013 Turbidity – Monitored every 4 hours at Plant Finished Water Tap | | | |
|--|--|-----------|---------------------------------|
| Highest Single Measurement Cannot exceed 1 NTU | Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%) | Violation | Major Sources in Drinking Water |
| 0.26 NTU | 100% | no | Soil Runoff |
| Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. | | | |

| 2013 Microbiological Contaminants – Monthly Monitoring in Distribution System | | | | | |
|--|------|---|-------------------------|-----------|---------------------------------------|
| Regulated Contaminant | MCLG | MCL | Highest Number Detected | Violation | Major Sources in Drinking Water |
| Total Coliform Bacteria | 0 | Presence of Coliform bacteria > 5% of monthly samples | in one month | | Naturally present in the environment. |
| <i>E. coli</i> or Fecal Coliform Bacteria | 0 | A routine sample and a repeat sample are total coliform positive, and one is also fecal or <i>E. coli</i> positive. | entire year | | Human waste and animal fecal waste. |

| 2011 Lead and Copper Monitoring at Customers' Tap | | | | | | | | |
|--|-----------|-------|------------------|-----------------|------------------------------------|---------------------------|-----------|--|
| Regulated Contaminant | Test Date | Units | Health Goal MCLG | Action Level AL | 90 th Percentile Value* | Number of Samples Over AL | Violation | Major Sources in Drinking Water |
| Lead | 2011 | ppb | 0 | 15 | | | | Corrosion of household plumbing system; Erosion of natural deposits. |
| Copper | 2011 | ppm | 1.3 | 1.3 | | | | Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives. |

*The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.

| Regulated Contaminant | Treatment Technique | Typical Source of Contaminant |
|----------------------------|--|-------------------------------|
| Total Organic Carbon (ppm) | The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC was measured each month and because the level was low, there is no requirement for TOC removal. | Erosion of natural deposits |

2013 Special Monitoring

| Contaminant | MCLG | MCL | Level Detected | Source of Contamination |
|--------------|------|-----|----------------|-----------------------------|
| Sodium (ppm) | n/a | n/a | 4.52 | Erosion of natural deposits |