

# 2011 Annual Water Quality Report Certification of Distribution

Public Water Supply System Name: **Village Of Manley**  
Population Served by Public Water System: **191**

Account Number: **NE3102513**  
County: **CASS**

The Village Of Manley community water system hereby confirms that the Annual Water Quality Report has been distributed to customers (and appropriate notices of availability have been given) in accordance with Nebraska's Regulations Governing Public Water Supply Systems, Title 179 NAC 14. Further, this certifies that the information contained in the report is correct and consistent with the compliance monitoring data received by Nebraska Department of Health and Human Services.

## Check distribution method(s) and fill in the corresponding information blanks:

\_\_\_\_\_ Mail: Date Mailed: \_\_\_\_\_ (Attach a copy of mailed report)

\_\_\_\_\_ Hand Deliver: Date: \_\_\_\_\_ (Attach a copy of delivered report)

\_\_\_\_\_ Publish: Date Published: \_\_\_\_\_ (Attach a newspaper clipping)

\_\_\_\_\_ Post: Date Posted \_\_\_\_\_ (Attach a copy of posted report)

First Location: \_\_\_\_\_

Second Location: \_\_\_\_\_

Third Location: \_\_\_\_\_

\_\_\_\_\_ Wholesale Systems Only: Were Consecutive Systems notified? Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, who? \_\_\_\_\_

## Certified By (Licensed Water Operator)

Water Operator Name: \_\_\_\_\_

Water Operator License Number: \_\_\_\_\_

Title: \_\_\_\_\_

Phone: \_\_\_\_\_ Date: \_\_\_\_\_

Email: \_\_\_\_\_

**Note: The "2011 Annual Water Quality Report" and this Certification form must be received by Nebraska DHHS no later than July 1, 2012. If this report is NOT received by July 1, 2012, a violation will be issued.**



## Village Of Manley

### Annual Water Quality Report For January 1 to December 31, 2011

This report is intended to provide you with important information about your drinking water and the efforts made by the Village Of Manley water system to provide safe drinking water.

#### Para Clientes Que Hablan Español:

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

For more information regarding this report, contact:

**KEVIN HOLDORF**  
402-707-2223

If you would like to observe the decision-making processes that affect drinking water quality, please attend the regularly scheduled meeting of the Village Board/City Council. If you would like to participate in the process, please contact the Village/City Clerk to arrange to be placed on the agenda of the meeting of the Village Board/City Council.

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 EPA's Safe Drinking Water Hotline (800-426-4791).

#### Source Water Assessment Availability:

The Nebraska Department of Environmental Quality (NDEQ) has completed the Source Water Assessment. Included in the assessment is a Wellhead Protection Area map, potential contaminant source inventory, vulnerability rating, and source water protection information. To view the Source Water Assessment or for more information please contact the person named on the cover of this report or NDEQ at (402) 471-6988.

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. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

#### Sources of Drinking Water:

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

The source of water used by Village Of Manley is purchased ground water. Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided above.

Buyer Name	Seller Name
Village Of Manley	Otoe Co RWD 3

#### 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.
- \* 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 storm water runoff, and septic systems.
- \* Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

#### Drinking Water Health Notes:

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

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. Flushing your tap for 30 seconds to 2 minutes before using your tap water will clear the line of any lead that may have leached into the water while the line was idle. Additional information is available from the Safe Drinking Water Hotline (800-426-4791) or the Department of Health and Human Services/Division of Public Health/Office of Drinking Water (402-471-2541).

The Village Of Manley is required to test for the following contaminants: Coliform Bacteria, Antimony, Arsenic, Asbestos, Barium, Beryllium, Cadmium, Chromium, Copper, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, Selenium, Sodium, Thallium, Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Dibromochloropropane, Dinoseb, Di(2-ethylhexyl)phthalate, Diquat, 2,4-D, Endothall, Endrin, Ethylene dibromide, Glyphosate, Heptachlor, Heptachlor, epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), Pentachlorophenol, Picloram, Polychlorinated biphenyls, Simazine, Toxaphene, Dioxin, Silvex, Benzene, Carbon Tetrachloride, o-Dichlorobenzene, Para-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, Cis-1,2,-Dichloroethylene, Trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Monochlorobenzene, 1,2,4-Dichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Vinyl Chloride, Styrene, Tetrachloroethylene, Toluene, Xylenes (total), Gross Alpha (minus Uranium & Radium 226), Radium 226 plus Radium 228, Sulfate, Chloroform, Bromodichloromethane, Chlorodibromomethane, Bromoform, Chlorobenzene, m-Dichlorobenzene, 1,1-Dichloropropene, 1,1-Dichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dichloropropane, Chloromethane, Bromomethane, 1,2,3-Trichloropropane, 1,1,1,2-Tetrachloroethane, Chloroethane, 2,2-Dichloropropane, o-Chlorotoluene, p-Chlorotoluene, Bromobenzene, 1,3-Dichloropropene, Aldrin, Butachlor, Carbaryl, Dicamba, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metolachlor, Metribuzin, Propachlor.

Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

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 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): The concentration of a contaminant which, if exceeded triggers treatment or other requirements which a water system must follow.

ppm: parts per million                      ppb: parts per billion  
ppt: parts per trillion                        pCi/l: picoCuries per liter  
ug/l: micrograms per liter                      (Measurement of Radioactivity)

Microbiological	Highest No. of Positive Samples	MCL	MCLG	Likely Source Of Contamination	Violations Present
COLIFORM (TCR)	In the month of August, 6 sample(s) were positive	MCL: Systems that Collect Less Than 40 Samples per Month - No more than 1 positive monthly sample	0	Naturally present in the environment	Yes

Lead and Copper	Monitoring Period	90 <sup>th</sup> Percentile	Range	Unit	AL	Sites Over AL	Likely Source Of Contamination
COPPER, FREE	2008 - 2010	0.835	0.0382 - 1.41	ppm	1.3	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.
LEAD	2008 - 2010	2.1	1.21 - 3.05	ppb	15	0	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing.

During the 2011 calendar year, we had the below noted violation(s) of drinking water regulations.

Type	Category	Analyte	Compliance Period
MONITORING (TCR), ROUTINE MAJOR	Failure to Monitor	COLIFORM (TCR)	01/01/2011 12:00:00 AM - 01/31/2011 12:00:00 AM
MCL (TCR), MONTHLY	Maximum Contaminant Level Violation	COLIFORM (TCR)	07/01/2011 12:00:00 AM - 07/31/2011 12:00:00 AM
MCL (TCR), MONTHLY	Maximum Contaminant Level Violation	COLIFORM (TCR)	08/01/2011 12:00:00 AM - 08/31/2011 12:00:00 AM
MCL (TCR), MONTHLY	Maximum Contaminant Level Violation	COLIFORM (TCR)	09/01/2011 12:00:00 AM - 09/30/2011 12:00:00 AM

The Village Of Manley has taken the following actions to return to compliance with the Nebraska Safe Drinking Water Act:

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2011 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Likely Source Of Contamination
ARSENIC	11/21/2011	Otoe Co RWD 3	2.31	2.31	ppb	10	0	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
BARIUM	08/09/2010	Otoe Co RWD 3	0.116	0.116	ppm	2	2	Discharge from drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
CHROMIUM	08/09/2010	Otoe Co RWD 3	8.61	8.61	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits.
FLUORIDE	08/09/2010	Otoe Co RWD 3	0.226	0.226	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; Fertilizer discharge.
NITRATE-NITRITE	11/07/2011	Otoe Co RWD 3	4.64	0.94 - 4.64	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Unregulated Water Quality Data	Collection Date	Water System	Highest Value	Range	Unit	Secondary MCL
NICKEL	11/23/2009	Otoe Co RWD 3	0.00254	0.00177 - 0.00254	mg/l	0.1
SULFATE	11/23/2009	Otoe Co RWD 3	62	46 - 62	mg/l	250

During the 2011 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

**Additional Required Health Effects Language:**

**Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.**