2013 Annual Drinking Water Quality Report Icard Township Water Corporation

PWS ID# 01-12-060

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about your source(s) of water, what it contains, and how it compares to standards set by regulatory agencies. 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 and to providing you with this information because informed customers are our best allies. If you have any questions about this report or concerning your water, please contact Jonathan Pons at 828-397-6294. 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 meetings. They are held the second Monday of each month at 7:30 p.m. at the Icard Township Water Corporation Office.

What EPA Wants You to Know

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 Safe Drinking Water Hotline (800-426-4791).

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. 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).

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. Icard Township Water Corporation 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.

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, 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 <u>microbial contaminants</u>, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; <u>inorganic contaminants</u>, 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 farming; <u>pesticides and herbicides</u>, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; <u>organic contaminants</u>, 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; and <u>radioactive contaminants</u>, which can 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, 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.

When You Turn on Your Tap, Consider the Source

The water that is used by this system is purchased from the Town of Valdese and the City of Hickory. The Town of Valdese water source is Lake Rhodhiss and the City of Hickory water source is Lake Hickory.

Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower. The relative susceptibility rating of each source for Icard Township Water Corporation was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

Source Name	Susceptibility Rating
Town of Valdese (Lake Rhodhiss)	Higher
City of Hickory (Catawba River/Lake Hickory)	Higher

The complete SWAP Assessment report for Icard Township Water Corporation may be viewed on the Web at: <u>www.ncwater.org/pws/swap</u>. Note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to swap@ncdenr.gov. Please indicate your system name, number, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of "higher" <u>does not</u> imply poor water quality, only the system's potential to become contaminated by PCSs in the assessment area.

Violations that Your Water System Received for the Report Year

During 2013, or during any compliance period that ended in 2013, we received no violations.

Water Quality Data Tables of Detected Contaminants

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The table below lists all the drinking water contaminants that we <u>detected</u> in the last round of sampling for the particular contaminant group. The presence of contaminants does <u>not</u> necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2013.** The EPA and the State allow 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. Some of the data, though representative of the water quality, is more than one year old.

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 regulations are warranted.

Important Drinking Water Definitions:

Not-Applicable (N/A) – Information not applicable/not required for that particular water system or for that particular rule. *Non-Detects (ND)* – Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.

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 (ug/L) - 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.

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

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water. *Maximum Residual Disinfection Level 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 contaminants.

Maximum Residual Disinfection 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 Contaminant Level (MCL) - 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 (MCLG) - 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.

ICARD TOWNSHIP WATER CORPORATION Tables of Detected Contaminants

Lead and Copper Contaminants

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Contaminant (units)	Sample Date	Your Water	# of sites found above the AL	MCLG	AL	Likely Source of Contamination
Copper (ppm) (90 th percentile)	August 2013	0.274	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 th percentile)	August 2013	<3.0	0	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

Disinfectants and Disinfection Byproducts Contaminants

Contaminant (units)	MCL/MR DL Violation Y/N	Your Water RAA	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb) [Total Trihalomethanes]	N	42.88	24 - 55	N/A	80	By-product of drinking water chlorination
HAA5 (ppb) [Total Haloacetic Acids]	N	31.13	23 - 42	N/A	60	By-product of drinking water disinfection
Chlorine (ppm)	N	1.26	0.95 – 1.99	MRDLG = 4	MRDL = 4	Water additive used to control microbes

WATER PURCHASED from CITY OF HICKORY Tables of Detected Contaminants

Turbidity*

Contaminant (units)	Treatment Technique (TT) Violation Y/N	Your Water	Treatment Technique (TT) Violation if:	Likely Source of Contamination
Turbidity (NTU) - Highest single turbidity measurement	Ν	0.28 NTU	Turbidity > 1 NTU	
Turbidity (NTU) - Lowest monthly percentage (%) of samples meeting turbidity limits	Ν	100 %	Less than 95% of monthly turbidity measurements are ≤ 0.3 NTU	Soil runoff

* Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The turbidity rule requires that 95% or more of the monthly samples must be less than or equal to 0.3 NTU. **Inorganic Contaminants**

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Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination	
Fluoride (ppm)	1/08/13	Ν	ND	N/A	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories	

Nitrate/Nitrite Contaminants

Contaminant (units)	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination
Nitrate (as Nitrogen) (ppm)	Ν	ND	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits

Lead and Copper Contaminants

Contaminant (units)	Sample Date	Your Water	# of sites found above the AL	MCLG	AL	Likely Source of Contamination
Copper (ppm) (90 th percentile)	7/30/13	0.359	0	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb) (90 th percentile)	7/30/13	<3.0	0	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits

Total Organic Carbon (TOC)

Contaminant (units)	TT Violation Y/N	Your Water (RAA Removal Ratio)	Range Monthly Removal Ratio Low - High	MCLG	TT	Likely Source of Contamination	Compliance Method (Step 1 or ACC#)
Total Organic Carbon (removal ratio) (TOC)-TREATED	Ν	0.80	0 - 100	N/A	TT	Naturally present in the environment	ACC #2

Disinfectants and Disinfection Byproducts Contaminants

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Contaminant (units)	MCL/MRD L Violation Y/N	Your Water RAA (Stage 1)	Range Low High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb) [Total Trihalomethanes]	N	50.0	30 - 70	N/A	80	By-product of drinking water chlorination
HAA5 (ppb) [Total Haloacetic Acids]	N	30.0	20 - 50	N/A	60	By-product of drinking water disinfection
Chlorine (ppm)	N	1.40	0.86 – 1.7	MRDLG = 4	MRDL = 4	Water additive used to control microbes

The PWSS requires monitoring for other misc. contaminants, some for which the EPA has set national secondary drinking water standards (SMCLs) because they may cause cosmetic effects or aesthetic effects (such as taste, odor, and/or color) in drinking water. The contaminants with SMCLs normally do not have any health effects and normally do not affect the safety of your water. **Other Miscellaneous Water Characteristics Contaminants**

Contaminant (units)	Sample Date	Your Water	Range Low/High	SMCL
Sodium (mg/L)	1/08/13	15.3	N/A	N/A
Sulfate (mg/L)	1/08/13	18.7	N/A	250 mg/L
pH (su)	1/08/13	6.7	N/A	6.5 to 8.5
Alkalinity (mg/L CaCO3)	2/07/13	10.0	N/A	N/A
Hardness (mg/L CaCO3)	1/08/13	15.6	N/A	N/A
Iron (mg/L)	1/08/13	ND	N/A	0.300

WATER PURCHASED FROM TOWN OF VALDESE TEST RESULTS

Contaminate	Your Water	MCLG	MCL	Likely Source
Akalinity (mg/L)	12.9	N/A	N/A	Erosion of Natural Minerals
Antimony (ppb)	N/D	0.006	0.006	Fire Retardants; Solder; Electronics
Arsenic (ppb)	N/D	0	0.010	Natural Sources; Production Waste
Barium (ppm)	N/D	2.0	2.0	Metal Refineries; Natural Deposits
Beryllium (ppb)	N/D	0.004	0.004	Discharge from Coal Burning Facilities
Cadmium (ppb)	N/D	0.005	0.005	Erosion of Natural Deposits; Corrosion of
				Galvanized Pipes; Discharges by Refineries

Chromium (ppb)	N/D	0.1	0.1	Discharge from Steel or Pulp Mills; Natural Minerals	
Copper (ppm)	0.175	1.3	A.L.=1.3	Erosion of Household Plumbing; Naturally Occurring	
Cyanide (ppb)	N/D	0.2	0.2	Discharge from Steel, Plastic, or Fertilizer Factories	
Fecal Coliforms	0	0	0	Human or Animal Fecal Waste	
Fluoride (ppm)	0.84	4.0	4.0	Additive to support Strong Teeth; Erosion of Natural Deposits	
Iron (ppb)	N/D	0.3	0.3	Corrosion of Household Plumbing	
Lead (ppm)	0.004	0	A.L.=0.015	Corrosion of Household Plumbing; Erosion of Natural Deposits	
Manganese (mg/L)	0.023	0.05	0.05	Erosion of Natural Deposits	
Mercury (ppb)	N/D	0.002	0.002	Erosion of Natural Deposits; Runoff from Landfills; Discharges from Factories	
Nitrate (ppm)	N/D	10	10	Runoff from Fertilizer Use; Erosion of Natural Deposits	
Nitrite (ppm)	N/D	1	1	Runoff from Fertilizer Use; Erosion of Natural Deposits	
pН	7.4	N/A	N/A	Erosion of Natural Deposits	
Selenium (ppb)	N/D	0.05	0.05	Discharge from Petroleum Refineries; Erosion from Natural Deposits	
Sulfate (mg/L)	N/D	250	250	Soil Runoff	
Temperature (°C)	19	N/A	N/A	N/A	
Thallium (ppb)	N/D	0.0005	0.002	Leaching from Ore-Producing Sites; Discharge from Electronics, Drug, or Glass Factories	
Total Coliforms	0	0	>5% Month	Naturally Present in the Environment	
Total Haloacetic Acids (ppb)	20.0	N/A	60.0	By-Product of Disinfection	
Total Organic Carbons (mg/L)	0.93	N/A	N/A	Naturally Occurring Element	
Total Trihalomethanes (ppb)	45.0	0	80.0	By- Product of Disinfection	
Turbidity (NTU's)	0.10*	0.3	0.3	Soil Runoff	

*Turbidity Result was the highest recorded result from 2013. The reading was taken on 5/8/2013. Average Turbidity was 0.027 NTU's for 2013.

Disinfection By-ProductsTTHM – Average: 45.0 ppb; Range: 21.0 ppb – 65.0 ppb; MCL 80.0 ppbTOC – Average: 0.93 mg/L; Range: 0.45 – 1.68 mg/LHAA5 – Average: 20.0 ppb; Range: 10.0 ppb – 27.0 ppb;MCL 60.0 ppb

Water System No .	Report Vear Dopulation Sam	vod•
The Community Water System (CWS) 141 and 142 requiring the development have been executed. Further, the CWS consistent with the compliance monitor	Report Year: Population Ser named above hereby confirms that all provisions under of, distribution of, and notification of a consumer con- certifies the information contained in the report is con- ring data previously submitted to the primacy agency be report is being used to meet Tier 3 Public Notification	er 40 CFR parts ifidence report rect and by their NC
5	he CWS certifies that public notification has been prov	1 /
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Signature:	Phone #:	
Delivery Achieved Date:	Date Reported to State:	
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Consumer Confidence Report Certification Form

INSTRUCTIONS

Submittal of your CCR and Certification Form to the Public Water Supply Section

You may now submit your CCR and Certification form by <u>either</u> method described below. Follow the directions to ensure efficient tracking and receipt of your submittal and expedited review of report data by the Public Water Supply (PWS) Section for compliance with state and federal regulations.

➢ <u>By Email</u>:

- Provide your Water System Name and Water System Number (e.g. Water System Name NC0101010) in the subject line of the email.
- If your CCR is displayed on a Web page, provide the direct URL for the report in the body of your email, and attach your completed Certification form to the email. (Note: Water systems <u>without</u> a web page/direct URL must attach <u>both</u> the CCR and the Certification form to the email as either a Word or PDF document.)
- Email your documents to: <u>PWSS.CCR@ncdenr.gov</u> (use 'Return Receipt Requested' to verify PWS Section's receipt.)
- By Postal Mail: Mail your CCR and Certification form to: Public Water Supply Section, 1634 Mail Service Center, Raleigh, NC 27699-1634, Attn: CCR Rule Manager.

<u>CCR Customer Direct Delivery Requirements (Based on Population)</u>

- > Systems serving 100,000 or more persons must post the CCR on a publicly-accessible Internet site using a direct URL.
- > Systems serving 10,000 or more persons must distribute the CCR by mail or direct delivery.
- Systems serving less than 10,000 persons but more than 500 persons must either: (1) distribute the CCR by mail or direct delivery <u>OR</u> (2) notify their customers that the CCR is not being mailed, but it will be in what newspaper(s) and when (attach copy of notice). The complete CCR should be printed in the local newspaper, and a copy of the CCR must be made available upon request. (*The 2nd option is not acceptable if using the CCR for Tier 3 Public Notification!*)
- Systems serving 500 or fewer persons must either: (1) distribute the CCR by mail or direct delivery OR (2) notify their customers that the CCR is not being mailed, and a copy of the CCR must be made available upon request. (The 2nd option is not acceptable if using the CCR for Tier 3 Public Notification!)

	METHOD DESCRIPTION		
	(Click link: EPA-CCR Rule Delivery Options Memo January 3, 2013.		
CCR DELIVERY METHOD	for referenced Appendix Figures below.)		
Mail – paper copy	CWS mails a paper copy of the CCR to each bill-paying customer.		
Mail – notification that CCR is available on web site via a direct URL	CWS mails to each bill-paying customer a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet where it can be viewed. A URL that navigates to a web page that requires a customer to search for the CCR or enter other information does not meet the "directly deliver" requirement. The mail method for the notification may be, but is not limited to, a water bill insert, statement on the water bill or community newsletter. See Figure 1 in the Appendix.		
Email – direct URL to CCR	CWS emails to each bill-paying customer a notification that the CCR is available and provides a direct URL to the CCR on a publicly available site on the Internet. A URL that navigates to a web page that requires a customer to search for the CCR or enter other information does not meet the "directly deliver" requirement. This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 2 in the Appendix.		
Email – CCR sent as an attachment to email	CWS emails the CCR as an electronic file email attachment [e.g., portable document format (PDF)]. This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 3 in the Appendix.		
Email – CCR sent as an embedded image in an email	CWS emails the CCR text and tables inserted into the body of an email (not as an attachment.) This method may only be used for customers when a CWS has a valid email address to deliver the CCR electronically. See Figure 4 in the Appendix.		
Additional electronic delivery that meets "otherwise directly deliver" requirement	CWS delivers CCR through a method that "otherwise directly delivers" to each bill-paying customer and in coordination with the primacy agency. This category is intended to encompass methods or technologies not included above. CWSs and primacy agencies considering new methods or technologies should consult with the EPA to ensure it meets the intent of "otherwise directly deliver."		

CCR Direct Delivery Methods for Bill-Paying Customers