



# WATER & WASTEWATER NEWS



Chester Metropolitan District | Chester County Wastewater Recovery | Chester County, SC

Volume 24 • Spring 2017 • Issue #1

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## CHESTER METER REPLACEMENT PROJECT

Over the past several months, CMD has faced a number of issues, from staff shortages to software problems and hardware malfunctions. Unfortunately, our customers have been on the receiving end of inconsistency and frustration. CMD has identified the main areas of concern, and we are working to rectify the problems.

Our first goal is to ensure that all of our metering equipment is working properly and that our customers are being billed fairly and accurately.

In late 2016, CMD replaced the meters in the Town of Great Falls for this reason. The replacement has reduced read time while providing more reliable reading results for the customers in the Great Falls area.

Because the project was a success, CMD will move forward by replacing all remaining ¾' and 1" residential meters in Chester County.

Beginning July 2017, staff from Ferguson Waterworks will begin replacing the current, thirty-year-old meters with new Sensus iPERL meters. The new system will not only allow for more timely and reliable reading throughout the county, but the new meters will also retain 90 days of usage history to assist with leak detection and billing concerns.

As the meter contractor moves through the County, customers can expect notification of work at their location the morning of the replacement. All Ferguson employees will carry proper ID and will leave door tags at any location whose resident/owner is unavailable at the time of the replacement.

Customers should expect an interruption of service of approximately 30 minutes. Any individual or business who requires scheduling to avoid interruption of health-related services such as home dialysis should call the CMD Office at (803) 385-5123 as soon as possible to make arrangements for their meter replacements.

CMD would like its customers to know that this project will mean a change in the way meters are read. CMD Employees will no longer be opening meter boxes since the meters will be read remotely through the small radio transmitters connected to the meters. However, should a discrepancy occur, the meter dial will be manually checked.

There will be a few bumps along the way. As always, CMD appreciates your patience and understanding, and will answer any questions you might have.



# Employee Spotlight

It is the shared goal of the CMD and CWR to encourage continuing education for our employees. Please join us in congratulating the following employees for their achievements:

Joseph Ferrell - "C" Water Treatment  
Michael Hudson - "D" Water Distribution  
Mike McAbee - "D" Wastewater Collections



Our Source Water Assessment Plan is available for your review at

[www.scdhec.net/environment/water/srcwtrreports.htm](http://www.scdhec.net/environment/water/srcwtrreports.htm)

If you do not have internet access, please contact our office at (803) 385-5123 to make arrangements to view this document.

## EMPLOYEE OF THE YEAR

Annually the employees of the Chester Metropolitan District and Chester County Wastewater Recovery vote on their choice for the "Outstanding Employee of the Year". Employees are asked to base their selection on leadership in the workplace, work ethic, attitude, professionalism, and contributions to the overall team effort of the CMD and CSD work force. This distinction is presented to employees who display outstanding team contributions, technical knowledge, and dedication to the overall mission of each District.

Please join us in congratulating

**CLAY SHANNON** from Chester Metropolitan District

and

**MICHAEL HUNTER** from Chester County Wastewater Recovery!

# Cross-Connection Control

The purpose of the Cross-Connection Control Program is to help eliminate possible contamination of the public water distribution system. Cross-connections are defined as any connection between the public water distribution system and private water system or piping. There are two required components of the program: a site survey and testing of the backflow prevention assemblies.

## **WHAT DOES THIS MEAN?**

All customers of the Chester Metropolitan District must have a backflow prevention device installed between the CMD system and the customer's service line. For most services, the backflow prevention device is installed at or near the water meter. Larger facilities such as restaurants, schools, hospitals, and industries often have multiple backflow devices located throughout their private water systems in critical locations such as near hot water heaters, beside utility sinks, or before process water or cooling water systems.

## **WHO IS RESPONSIBLE FOR THESE DEVICES?**

CMD's Maintenance Department is responsible for maintaining and replacing backflow prevention devices on residential services one-inch and less in size.

Backflow prevention devices for commercial customers are the responsibility of the customer, including testing and repairs. Testing must be done on an annual basis and all results must be sent to the CMD office in order to comply with SCDHEC's regulations. The SCDHEC Cross Connection Control Program webpage contains a list of all Certified Testers for the State of South Carolina.

## **HOW DO WE PREVENT BACKFLOW SITUATIONS?**

There are a variety of mechanical backflow preventers that are available on the commercial market. They are designed to allow free flowing water in the correct direction, but if the flow is reversed, the flow is stopped. A variety of different mechanical methods are used to achieve this result depending on the type of backflow device. Some use spring loaded check valves, others use an air gap, or both.

## **CHANGES TO THE PROGRAM**

To ensure that the District maintains compliance with SCDHEC's regulations and provide our customers with safe drinking water, we are performing a system-wide survey to locate new cross-connections and evaluate the compliance of existing cross-connections.

If a device fails, repair or replacement will be required in order to continue water service. New construction requires passing results before service can be initiated.

Chester Metropolitan District will also begin replacing all residential devices later in 2017.

CMD is committed to providing superior quality water to all of its customers. While no program is 100% effective, it is our goal to ensure our customers and our County are protected to the best of our ability.

*For more information, visit us at [www.cmdcsd.com](http://www.cmdcsd.com)!*

# 2016 Water Quality Report

We are pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality water service we deliver to you every day. 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. If you have any questions about this report or concerning your water utility, please contact our Water Treatment Plant at (803) 872-4418.

The Chester Metropolitan District routinely monitors for constituents in your drinking water according to Federal and State laws. The table on the next page shows the results of our monitoring for the period of January 1—December 31, 2016. As you can see by the table, our system had no violations in 2016. This is in part due to the professionalism of our operators. We are proud that your drinking water meets or exceeds all Federal and State Requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels.

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. CMD is responsible for providing high quality drinking water, but cannot control the variety of materials used in private 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 it for drinking or cooking. Information on lead in drinking water is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead.html>.

**Non-Detects (ND)** - laboratory analysis indicates the constituent is not present.

**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)** - Equates to 1 penny in 1,000,000,000 pennies.

**Nephelometric Turbidity Units (NTU)** - a measure of the clarity of the water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**Action Level (AL)** - The level where action must be taken by treatment or other requirements.

**Treatment Technique (TT)** - A required process intending to lower a contaminant level.

**Maximum Contaminant Level (MCL)** - The highest level of a contaminant allowed in drinking water.

**Maximum Contaminant Level Goal (MCLG)** - The level of a drinking water disinfectant below which there is no known or expected health risk.

**Maximum Residual Disinfectant Level Goal (MRDLG)** - The level of a drinking water disinfectant below which there is no known or expected health risk.

**Total Organic Carbon (TOC) Removal** - The percent removal must be at least 1 or the system is in violation.

**Highest Quarterly Average (HQL)** - The highest three-month average of a parameter recorded.

**Highest Level Detected (HLD)** - The highest level of a contaminant detected in drinking water.

# 2016 Water Quality Report

MCLs are set at very rigid levels. In order to have a ONE IN A MILLION chance of health risks associated with these Contaminants, you have to drink 2 LITERS of water EVERY DAY for a LIFETIME.

## TEST RESULTS

Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Chester Metropolitan, 2016</b>						
Fluoride	N	.42	PPM	4	4	Erosion of natural deposits; water additive which promotes strong teeth, discharge from fertilizer
Nitrate	N	.70	PPM	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Mercury	N	.20	PPB	2	2	Naturally present in the environment; discharge from metals processing facilities
Chloramines	N	HQA 1.17 Range .81 - 1.35	PPM	MRDL = 4	MRDLG = 4	Water additives used to control microbes
Haloacetic Acids (HAAs)	N	HLD 16 Range 3.4 - 33.5	PPB	0	32	By-product of drinking water chlorination
TTHM (Total Trihalomethanes)	N	HLD 44 Range 21.3 - 58.3	PPB	0	80	By-product of drinking water chlorination
Total Organic Carbon	N	AVG % Removal 44 Range 30 - 58	TT	35% Removal Required	TT	Naturally present in the environment
Turbidity	N	HLD 0.29 Avg. 0.76	NTU	N/A	TT	Soil Runoff

## Lead & Copper Test Results

Contaminant	Violation Y/N	90th Percentile	Unit Measurement	Action Level/Goal	Sites over Action Level	Likely Source of Contamination
Copper, Free	N	0.12	PPM	1.3	N	Corrosion of household plumbing systems; erosion of natural deposits  PB-CU results dated 04/07/16
Lead	N	3.2	PPB	15	N	

In an ongoing effort to provide superior service to the residents and businesses of Chester County, we at Chester County Wastewater Recovery have embarked on a mission to put forth our best possible image. In November 2016, the Chester Sewer District's Board of Commissioners approved a plan to rebrand Chester County's Wastewater System by upgrading our image and putting our focus back on our customers and the services we provide.

## **About The New CWR:**

The Chester Sewer District (CSD) is a special purpose district created by Legislative Act No. 480 as amended by Act No. 1186 (and subsequent Amendments thereto) of the Acts of the State of South Carolina for 1964. The CSD was created for the purpose of transporting, treating and disposing of wastewater originating within the CSD Service Area. In September 2016, the CSD Board of Commissioners passed a resolution to allow the CSD to operate as Chester County Wastewater Recovery (CWR). CWR is a more accurate name detailing the actual function of the organization. Therefore, the CSD is "doing business as" (DBA) CWR.

Wastewater treatment is an important service provided by the CWR to residents, businesses and industries in the Chester and Richburg areas. Without this service, industrial operations in the Chester County area would be greatly hindered. That is why CWR is a strong supporter and partner in economic development efforts in the county.

The CWR's mission is to protect public health by providing efficient and reliable wastewater services to conserve resources, promote growth and development, and return clean water to the environment.



*Front Row (L-R): Rosetta Dixon, RCWWTP/LMWWTP; Farrah Wright, Executive Assistant; Phillip A. Thompson-King, Executive Director; Devon Beaty, Pretreatment Coordinator; Clay Shannon, Manager of Information Services.*

*Second Row (L-R): Jerry Campbell, SRWWTP; Tony Young, SRWWTP Superintendent; Joel Manning, Financial Analyst; Billy Raines, Collections; Patrick Timms, RCWWTP/LMWWTP Superintendent.*

*Third Row (L-R): Michael McAbee, Collections; Cole Abell, SRWWTP; Brian "Hatch" Hatchell, Collections; Claude "Sammy" Bell, RCWWTP/LMWWTP.*

*Back Row: Michael Hunter, Collections Foreman.*

*Not Pictured: David Garris, Collections Superintendent; Michael Coleman, Collections; Jamie Jennings, Collections; Charles Sanders, RCWWTP/LMWWTP; Michael Ritchie, RCWWTP/LMWWTP.*

The following information is provided as public service notice and as a means to enlighten you, our most valued and appreciated customer, of state regulations. The South Carolina Department of Health and Environmental Control (DHEC) has issued a regulation against certain substances which are considered harmful to the environment or Publicly Owned Treatment Works (POTW) such as the CSD. Prohibited Discharges are as follows:

- Any liquids, solids, or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any way to the POTW or to the operation of the POTW. Prohibited materials include (but are not limited to) gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketone, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances which are a fire hazard to the system.
- Solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater treatment facilities such as (but not limited to) grease, garbages with particles greater than one-half inch in any dimension, animal guts or tissues, paunch manure, bones, hair, hides or fleshing, entrails, whole blood, feather, ashes, cinders, sand, spent lime, stone or marble dust, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, waste paper, wood, plastics, gas, tar, asphalt residues, residues from refining or processing of fuel or lubricating oil, mud, glass grinding, or polishing wastes.
- Any wastewater having a pH of less than 5.0 or greater than 10.0.
- Any wastewater containing toxic pollutants in sufficient quantity, either singly or by interaction with other pollutants, to injure or interfere with any wastewater treatment process, constitute a hazard to humans or animals, create a toxic effect in the receiving waters of the POTW, subject to the Water Quality Standards.
- Any noxious or malodorous liquids, gases, or solids which either singly or by interaction with other wastes are sufficient to create a public nuisance or hazard to life or are sufficient to prevent entry into the sewers for their maintenance and repair.
- Any substance which may cause the POTW's effluent, or any other product of the POTW such as residues, sludges, or scums to be unsuitable for any reclamation or reuse process or program.
- Any substance which will cause the POTW to violate its NPDES and/or State Disposal System Permit or the receiving water quality standards.
- Any wastewater with objectionable color not removed during treatment process, such as (but not limited to) dye wastes and vegetable tanning solutions.
- Any wastewater having a temperature which will inhibit biological activity in the POTW resulting in interference, but in no case, wastewater with a temperature which exceeds 150 Degrees F (66C) for which causes the influent to the treatment plant to exceed 104 Degrees F.
- Pollutants, including oxygen-demanding pollutants (BOD, etc), released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference to the POTW. In no case shall a slug load have a flow rate or contain concentration of quantities of pollutants that exceed for any time period longer than fifteen minutes more than five times the average twenty-four hour concentration quantities, or during normal flow operation.
- Any wastewater containing any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the Commission in compliance with applicable State and Federal Regulations.
- Any wastewater which poses a substantial present or potential hazard to human health or to the environment when improperly treated, stored, transported, disposed of, or otherwise managed or creates a public nuisance.
- Any substance or flow quantity which causes a violation of the Permit to Discharge or the terms of a contract between the CSD Commission and the discharger.
- Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass-through.

**If you would like more detail on prohibited discharges,  
please contact us at (803) 377-3541.**

**PROHIBITED DISCHARGES**

# Help Us Cut the Fat!

Did you know that if customers dump fats, oils, and grease down the drain it can cause major environmental damage... and can end up costing the customer money?



Chester County Wastewater Recovery wants to spread the word that dumping grease down the line causes the line to clog up, which can end up causing sewer overflows. These are both environmental and public health problems!

When you fry your good food, please dump the excess oil and grease into the trash!

If you have any questions or see a sewer overflow, please give us a call at 803-377-3541!

## STAY UP TO DATE!

Big things are happening at CMD! Be sure to follow us on Social Media for all the latest news and updates!

[www.facebook.com/  
ChesterMetropolitanDistrict](http://www.facebook.com/ChesterMetropolitanDistrict)

[www.twitter.com/ChesterMetro](http://www.twitter.com/ChesterMetro)

[www.CMDCSD.com](http://www.CMDCSD.com)

## NO MORE REMINDERS!

**In an effort to streamline our process and control costs, the Chester Metropolitan District has made the decision to to discontinue reminder notices.**

**Customers will still have the same amount of time to pay their bills, which can be done in the office, by mail, or online at [www.cmdcsd.com](http://www.cmdcsd.com).**



# Coloring Fun!



## Fun Facts

- \* A leaky faucet can waste 100 gallons of water per day.
- \* An average family of four uses about 880 gallons of water per week just by flushing the toilet.
- \* Watering lawns during early morning or late evening hours reduces water loss from evaporation.
- \* Public water suppliers process 38 BILLION gallons of water per day for domestic and public use.
- \* You can refill an 8-ounce glass of water approximately 15,000 times for the same cost as a six-pack of soda.

# Magnolia Street Project



In an ongoing effort to provide quality service to the residents of Chester County, the Chester Metropolitan District has embarked on a new water line replacement project in the Great Falls area.

Due to a series of water main breaks which have resulted in numerous service outages for the residents on Magnolia Street, CMD will replace approximately 700 feet of the fifty-year-old 6” main.

The section of water main to be replaced stretches from Sunset Avenue to St. Michael Avenue.

Construction began Monday, April 17<sup>th</sup>, and is expected to continue for approximately 6-8 weeks. This project is funded by CMD’s monthly Capital Projects Fee.



## Catawba River Drought Management

Being in the water business, our river is our most precious resource. With the weather getting warmer and the rainy days passing us by, the Catawba River Basin once again faces the potential for drought conditions. The Chester Metropolitan District constantly monitors both the Catawba-Wateree Drought Management Advisory Group and the US Drought Monitor for updates. The purpose is to remain proactive when it comes to protecting our water supply and making sure our customers never have to think about what it means to be out of water. From time to time we may issue advisory notices and ask our customers to conserve water. We do not issue these advisories lightly. We do it to protect both the Catawba River and our customers.

# For Your 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 system disorders, some elderly, and infants can be particularly at risk from infection. 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 microbiological contaminants are available from the

## Safe Drinking Water Hotline

**1-800-426-4791**

Chester Metropolitan District's water supply is the Catawba River. Our Surface Water Assessment Plan is available for your review at [www.scdhec.net/environment/water/srcwtrreports.htm](http://www.scdhec.net/environment/water/srcwtrreports.htm).

If you do not have internet service, or if you have any questions or concerns regarding the Water Quality Report for 2016, please contact

**David Sloan, Chester Metropolitan District Water Filtration Plant Superintendent at (803) 872-4418.**

For questions regarding the service or quality of your water, or to report a water leak, sewer back-up, or disruption of service, please call our office at **(803) 385-5123**

You can visit our new and improved website at [www.cmdcsd.com](http://www.cmdcsd.com)

## LOVE OUR WATER!

Did you know that 1 in 9 people do not have access to safe and clean drinking water? That's more than 783 million people worldwide.

As much as 80% of illnesses in developing countries are linked to poor water and sanitation conditions. 1 in 3 people are without improved sanitation facilities. No toilets, no clean running water...

Turning on faucets and flushing toilets seem like such little things in our everyday lives, We often forget about those who go without, who do not know the luxury of processed water and indoor plumbing.

We are fortunate to live and work in a society which understands the importance of well-kept water and wastewater systems. You see, that's our goal at CMD – to worry about your water so you don't have to.

Chester Metropolitan District  
Chester County Wastewater Recovery  
P.O. Box 550  
Chester, SC 29706

PRSRT STD  
US Postage  
PAID  
Brunswick Ga  
Permit No.117

# Want to Get Involved?

The Chester Metropolitan District holds its regular board meetings the Second Wednesday of each month at 6:00 PM. The meetings are open to the public. The remaining meeting dates for 2017 are:

July 12, 2017  
August 9, 2017  
September 13, 2017  
October 11, 2017  
November 8, 2017  
December 13, 2017

Chester County Wastewater Recovery holds its regular board meetings the Third Tuesday of each month at 6:00 PM. The meetings are open to the public. The remaining meeting dates for 2017 are:

July 18, 2017  
August 15, 2017  
September 19, 2017  
October 17, 2017  
November 21, 2017  
December 19, 2017