Annual Drinking Water Quality Report

Brielle Water Department

For the Year 2020, results from the Year 2019

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We are pleased to report that our drinking water meets all federal and state safety requirements.

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

The Brielle Water Department and the New Jersey Water Supply Authority - Manasquan Reservoir Water Supply System routinely monitor for over 80 contaminants in your drinking water according to Federal and State laws. The tables list only detected contaminants and show the results of our monitoring from January 1st to December 31st, 2019. We have learned through our monitoring and testing that some contaminants have been detected. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

		Brielle Water I Test Re PWS ID#NJ	sult s	t				
Contaminant:	Viola- tion Y/N	Level Detected	Units of Measure- ment	MC LG	MCL	Likely Source of Contamination		
Radioactive Contaminants:								
Combined Radium 228 & 226 Test results Yr. 2018	N	1.5	pCi/1	N/A	N/A	Erosion of natural deposits		
Inorganic Contaminants:								
Copper Test results Yr. 2017 Result at 90 th Percentile	N	0.1 No samples exceed the action level	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits		
Lead Test results Yr. 2017 Result at 90 th Percentile	N	ND No samples exceed the action level.	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits		
Barium Test results Yr. 2017	N	Range = 0.1 Highest detect = 0.1	ppm	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		
Nitrate (as Nitrogen) Test results Yr. 2019	N	Range = ND - 0.3 Highest detect = 0.3	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits		
Disinfection Byproducts:								
TTHM Total Trihalomethanes Test Results Yr. 2019	N	Range = 13 - 45 Highest LRAA = 28	ppb	N/A	80	By-product of drinking water disinfection		
HAA5 Haloacetic Acids Test Results Yr. 2019	N	Range = 6 - 29 Highest LRAA = 21	ppb	N/A	60	By-product of drinking water disinfection		
Synthetic Organic Contamin	ants:							
PFNA Perfluorononanoic Acid Test results Yr. 2019	N	Range = ND - 0.001 Highest LRAA = 28	ppb .	N/A	0.013	Used in the manufacture of fluoropolymers.		
Regulated Disinfectants		Level Detected	MRDL		MRDLG			
Chlorine Test results Yr. 2019		Average = 0.7 ppm	4.0 ppm		4.0 ppm			

HAA5 and TTHM compliance is based on a Locational Running Annual Average (LRAA), calculated at each monitoring location. The LRAA calculation is based on four completed quarters of monitoring results.

Secondary Contaminant	Level Detected	Units of Measurement	RUL
Iron	Range = ND - 400	ppb	300
Test results Yr. 2018			

Iron: We exceeded the Secondary Recommended Upper Limit (RUL) for Iron at one of our treatment plants. The RUL for iron is based on unpleasant taste of the water and staining of laundry. Iron is an essential nutrient, but some people who drink water with iron levels well above the RUL could develop deposits of iron in a number of organs in the body. Iron is a naturally occurring element in soil, groundwater, and some surface waters. We do not treat for, or remove iron. Iron bacteria are considered harmless to health, how- ever, they may give water an off taste or color, cause splotchy yellow stains on laundry, and clog water systems.

Our water source: We have two sources of drinking water: our wells and the New Jersey Water Supply Authority, Manasquan Reservoir Water Supply System. One well draws water from the Kirkwood Aquifer and the other two draw their water from the Englishtown Aquifer. The Manasquan Water Treatment Plant, located on Hospital Road in the, Allenwood section of Wall Township, is owned by the Monmouth County Improvement Authority and is operated by the New Jersey Water Supply Authority. The Manasquan Water Treatment Plant takes it water from the Manasquan River in Wall Township and the Manasquan Reservoir in Howell Township.

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for this public water system, which is available at www.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. You may also contact your public water system to obtain information regarding your water system's Source Water Assessment. Brielle Water Department's and the Manasquan Water Supply System's source water susceptibility ratings and a list of potential contaminant sources is included.

Potential sources of contamination: 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:

- 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 lasts 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 byproducts 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.

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. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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 the 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 at 1-800-426-4791.

Definitions:

In the "Test Results" tables you may find some terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that 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) or Micrograms per liter - 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.

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

<u>Total Organic Carbon</u> – Total Organ Carbon (TOC) has no health effects. However, TOC provides a medium for the formation of disinfection byproducts. The *Treatment Technique* for TOC requires that 35% - 45% of the TOC in the raw water is removed through a treatment processes.

<u>Turbidity</u> – Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium microbial growth. Turbidity is measured as an indication of the effectiveness of the filtration process. The *Treatment Technique* for turbidity requires that no individual sample exceeds 1 NTU and 95% of the samples collected during the month must be less than 0.3 NTU.

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level - The "Maximum Allowed" (MCL) is 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 -The "Goal" (MCLG) is 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.

<u>Maximum Residual Disinfectant Level (MRDL):</u> The highest level of a disinfectant allowed in drinking water. There is addition of a disinfectant is necessary for control of microbial contaminants.

<u>Maximum Residual Disinfectant Level Goal (MRDLG):</u> The level of a drinking water disinfectant, below which there is no known or health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination

Waivers: The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organic chemicals and synthetic organic chemicals. Our systems received monitoring waivers for asbestos and synthetic organic chemicals. The Manasquan Water Supply System received a monitoring waiver for synthetic organic contaminants.

Lead: 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 Brielle Water Department and the New Jersey Water Supply Authority, Manasquan Reservoir Water Supply System are 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 second to 2 minutes before using water for drinking and 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.

For additional information: If you have any questions about this report or concerning your water utility, please call 732-528-5210. 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 Borough Council meetings at Borough Hall, 601 Union Lane. Meetings are held on the second and fourth Monday of each month at 7:30 p.m.

We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future. Please call our office if you have questions.

Unregulated Contaminant Monitoring: The Brielle Water Department monitored for the following unregulated contaminants. Unregulated contaminants are those for which the US Environmental Protection Agency (EPA) or the New Jersey Department of Environmental Protection (NJDEP) has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA and NJDEP in determining the occurrence of unregulated contaminants in drinking water and whether regulation is warranted. Per – and polyfluoroalkyl substances (PFAS) are widely found in the environment. EPA has identified a health advisory level for two PFAS analytes, PFOA and PFOS 0.070 ppb either singly or combined, and NJDEP has proposed new drinking water standards (Maximum Contaminant Levels (MCLs)) for PFOA and PFOS of 14 ng/L (0.014 ppb) and 13 ng/L (0.013 ppb), respectively. It is likely that NJDEP will adopt a final rule regarding the new MCLs before the end of 2020. The detected levels of PFOA and PFOS found are below DEP's proposed MCL.

Contaminant	Level Detected	Units of Measurement	Likely source
(PFOS)	Range = $ND - 0.003$	ppb	Used in the manufacture of fluoropolymers.
Perfluorooctane Sulfonate	Ü		. ,
(PFOA)	Range = ND - 0.004	ppb	Used in the manufacture of fluoropolymers.
Perfluorooctanoic Acid		''	and in the initial control of the or opportunities.

What are PFOA and PFOS?

Perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) are per- and polyfluoroalkyl substances (PFAS), previously referred to as perfluorinated compounds, or PFCs, that are man-made and used in industrial and commercial applications. PFOA was used as a processing aid in the manufacture of fluoropolymers used in non-stick cookware and other products, as well as other commercial and industrial uses based on its resistance to harsh chemicals and high temperatures. PFOS is used in metal plating and finishing as well as in various commercial products. PFOS was previously used as a major ingredient in aqueous film forming foams for firefighting and training, and PFOA and PFOS are found in consumer products such as stain resistant coatings for upholstery and carpets, water resistant outdoor clothing, and grease proof food packaging. Although the use of PFOA and PFOS has decreased substantially, contamination is expected to continue indefinitely because these substances are extremely persistent in the environment and are soluble and mobile in water. More information can be found at: https://www.state.nj.us/dep/wms/bears/docs/2019-4-15-FAQs_PFOS-PFOA-websites-OLA%204-24-19SDM-(003).pdf

		Manasquan Water	r Supply 20 SID # NJ135200		Results				
Contaminant	Viola- tion Y/N	Level Detected	Units of Measure- ment	MC LG	MCL	Likely Source of Contamination			
Microbiological Contamina	nts:								
Turbidity	N	Range = 0.02 - 0.17 100% < 0.3 NTU	NTU	N/A	TT 95% 0f monthly samples < 0.3 NTU	Soil runoff			
Total Organ Carbon (TOC)	N	Range = 29 - 51 Avg. Removal = 42%	%	N/A	TT 35% - 45% removal	Soil runoff			
Inorganic Contaminants:									
Copper Result at 90 th Percentile	N	1.27 1 sample out of 5 exceeded the action level.	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits			
Lead Result at 90 th Percentile	Y	132 2 samples out of 5 exceeded the action level.	ppb	0	Al=15	Corrosion of household plumbing systems; erosion of natural deposits			
Cyanide	N	Range = $ND - 2.7$ Highest detect = 2.7	ppb	200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories			
Fluoride	N	Range = 0.08 – 0.15 Highest detect = 0.15	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories			
Nitrate (as Nitrogen)	N	0.16	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			
Disinfection Byproducts:									
TTHM Total Trihalomethanes	N	Range = 22 - 36 Highest detect = 36	ppb	N/A	80	By-product of drinking water disinfection			
HAA5 Haloacetic Acids	N	Range = 25 - 27 Highest detect = 27	ppb	N/A	60	By-product of drinking water disinfection			
Regulated Disinfectants		Level Detected		MRDL		MRDLG			
Chlorine		Average = 1.2 ppm		4.0 ppm		4.0 ppm			

Synthetic Organic Contaminants:														
PFNA Perfluorononanoic Acid Test results Yr. 2019	N	Range = ND - 0.003 Highest detect = 0.003	ppb	N/A	0.013	Used in the manufacture of fluoropolymers.								

<u>Please note</u>: The New Jersey Water Supply Authority is not responsible for lead testing within the customer communities. Consult the Consumer Confidence Report of your community water system for lead results. The lead results in the table above are from faucets at the buildings on the Water Treatment facilities property. Lead and copper levels were detected in some samples taken at the water treatment plant and tested in 2019. The NJWSA adds a corrosion control chemical and adjusts the pH of the water leaving the Water Treatment plant in order to improve the corrosivity of the water and to achieve the regulatory level for these chemical elements.

Unregulated Contaminant Monitoring: The Manasquan Water Supply monitored for the following unregulated contaminants. Unregulated contaminants are those for which the US Environmental Protection Agency (EPA) or the New Jersey Department of Environmental Protection (NJDEP) has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA and NJDEP in determining the occurrence of unregulated contaminants in drinking water and whether regulation is warranted. Per – and polyfluoroalkyl substances (PFAS) are widely found in the environment. EPA has identified a health advisory level for two PFAS analytes, PFOA and PFOS 0.070 ppb either singly or combined, and NJDEP has proposed new drinking water standards (Maximum Contaminant Levels (MCLs)) for PFOA and PFOS of 14 ng/L (0.014 ppb) and 13 ng/L (0.013 ppb), respectively. It is likely that NJDEP will adopt a final rule regarding the new MCLs before the end of 2020. The detected levels of PFOA and PFOS found are below DEP's proposed MCL.

Contaminant	Level Detected	Units of Measurement	Likely source
(PFOS)	Range = $0.003 - 0.006$	ppb	Used in the manufacture of fluoropolymers.
Perfluorooctane Sulfonate			
(PFOA)	Range = $0.004 - 0.006$	ppb	Used in the manufacture of fluoropolymers.
Perfluorooctanoic Acid		1	oses in the management of fluoropolymors.

Cryptosporidium

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Cryptosporidium is usually removed through the filtration process and inactivated by other treatment processes such as ozonation. In order to check for the presence of Cryptosporidium, the USEPA issued the Long Term Enhanced Surface Water Treatment Rule in January 2006. As part of this rule, the Manasquan System began monthly sampling and testing for Cryptosporidium in October 2016 and this testing continued through its completion in September 2018. The sample results did not show any presence of Cryptosporidium.

Brielle Water Department-PWSID # NJ1308001

Brielle Water Department is a public community water system consisting of 3 wells and 1 purchased surface water source.

This system's source water comes from the following aquifers: Atlantic City "800-foot" Sand Aquifer System, Englishtown Aquifer System

This system purchases water from the following water system: NJ Water Supply - Manasquan System

Susceptibility Ratings for Brielle Water Department Sources

The table below illustrates the susceptibility ratings for the seven contaminant categories (and radon) for each source in the system. The table provides the number of wells and intakes that rated high (H), medium (M), or low (L) for each contaminant category. For susceptibility ratings of purchased water, refer to the specific water system's source water assessment report.

The seven contaminant categories are defined at the bottom of this page. DEP considered all surface water highly susceptible to pathogens, therefore all intakes received a high rating for the pathogen category. For the purpose of Source Water Assessment Program, radionuclides are more of a concern for ground water than surface water. As a result, surface water intakes' susceptibility to radionuclides was not determined and they all received a low rating.

If a system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming contaminated drinking water. The rating reflects the <u>potential</u> for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels. As a result of the assessments, DEP may customize (change existing) monitoring schedules based on the susceptibility ratings.

	Pa	athogo	ens	N	utrier	ıts	P	Pesticides			Volatile Organic Compounds			Inorganics			Radionuclides			Radon			Disinfection Byproduct Precursors		
Sources	Н	М	L	Н	М	L	Н	М	L	Н	М	L	Н	М	L	Н	М	L	Н	M	L	Н	М	L	
Wells - 3			3			3			3			3		2	1			3			3	1	2		

NJ Water Supply Authority - Manasquan System - PWSID # NJ352005

NJ Water Supply Authority - Manasquan System is a public community water system consisting of 2 surface water intakes.

This system's source water comes from the following surface water bodies: Manasquan Reservoir, Manasquan River

Susceptibility Ratings for NJ Water Supply Authority - Manasquan System Sources

The table below illustrates the susceptibility ratings for the seven contaminant categories (and radon) for each source in the system. The table provides the number of wells and intakes that rated high (H), medium (M), or low (L) for each contaminant category. For susceptibility ratings of purchased water, refer to the specific water system's source water assessment report.

The seven contaminant categories are defined at the bottom of this page. DEP considered all surface water highly susceptible to pathogens, therefore all intakes received a high rating for the pathogen category. For the purpose of Source Water Assessment Program, radionuclides are more of a concern for ground water than surface water. As a result, surface water intakes' susceptibility to radionuclides was not determined and they all received a low rating.

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	Pa	ithoge	ens	N	utrier	ıts	Po	Pesticides			Volatile Organic Compounds			Inorganics			lionuc	lides	Radon			Disinfection Byproduct Precursors		
Sources	Н	М	L	Н	М	L	Н	М	L	Н	M	L	Н	М	L	Н	М	L	Н	М	L	Н	М	L
Surface water intakes - 2	2				2			2			2			2				2			2	2		

Pathogens: Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecal wastes.

Nutrients: Compounds, minerals and elements that aid growth, that are both naturally occurring and man-made. Examples include nitrogen and phosphorus.

Volatile Organic Compounds: Man-made chemicals used as solvents, degreasers, and gasoline components. Examples include benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.

Pesticides: Man-made chemicals used to control pests, weeds and fungus. Common sources include land application and manufacturing centers of pesticides. Examples include herbicides such as atrazine, and insecticides such as chlordane.

Inorganics: Mineral-based compounds that are both naturally occurring and man-made. Examples include arsenic, asbestos, copper, lead, and nitrate. **Radionuclides:** Radioactive substances that are both naturally occurring and man-made. Examples include radium and uranium.

Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment. For more information go to http://www.nj.gov/dep/rpp/radon/index.htm or call (800) 648-0394.

Disinfection Byproduct Precursors: A common source is naturally occurring organic matter in surface water. Disinfection byproducts are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (for example leaves) present in surface water.



olutions to **Stormwater Pollution**

Easy Things You Can Do Every Day To Protect Our Water

A Guide to Healthy Habits for Cleaner Water

Pollution on streets, parking lots and lawns is washed by rain into storm drains, then directly to our drinking water supplies and the ocean and lakes our children play in. Fertilizer, oil, posticides, detergents, per waste, grass clippings: You name it and it ends uprincour water.

Stormwater pollution as one of New Jersey's greatest threats to clear and plentiful water, and that's wilk we're all doing something about at

By sharing the responsibility and making small, easy changes in our daily lives, we can keep common pollutants out of stormwater. It all adds up to cleaner water, and its exes the high cost of cleaning up once it's dirty.

As part of New Jersey's initiative to keep our water clean and plentiful and to meet federal requirements, many municipalities and other public agencies including adolleges and military bases

must adopt ordinances or other tries prohibiting warrous activities that contribute to stolingwater pollution. Breaking these rules can result in times or other penalties.



As a resident, business, or other member of the New Jersey community, it is important to know these easy things you can do every day to protect our water.

Limit your use of fertilizers and pesticides

- Do a soil test to see if you need a fertilizer.
- Do not apply fertilizers if heavy rain is predicted.
- Look into alternatives for pesticides.
- Maintain a small lawn and keep the rest of your property or yard in a natural state with trees and other native vegetation that requires little or no fertilizer.
- If you use fertilizers and pesticides, follow the instructions on the label on how to correctly apply it.



Make sure you properly store or discard any unused portions.

Properly use and dispose of hazardous products

- Hazardous products include some household or commercial cleaning products, lawn and garden care products, motor oil, antifreeze, and paints.
- Do not pour any hazardous products down a storm drain because storm drains are usually connected to local waterbodies and the water is not treated.

- If you have hazardous products in your home or workplace, make sure you store or dispose of them properly. Read the label for guidance.
- Use natural or less toxic alternatives when possible.
- Recycle used motor oil.
- Contact your municipality, county or facility management office for the locations of hazardous-waste disposal facilities.



Keep pollution out of storm drains

- Municipalities and many other public agencies are required to mark certain storm drain inlets with messages reminding people that storm drains are connected to local waterbodies.
- Do not let sewage or other wastes flow into a stormwater system.

Clean up after your pet

- Many municipalities and public agencies must enact and enforce local pet-waste rules.
- An example is requiring pet owners or their keepers to pick up and properly dispose of pet waste dropped on public or other people's property.
- Make sure you know your town's or agency's requirements and comply with them. It's the law. And remember to:
 - Use newspaper, bags or pooper-scoopers to pick up wastes.
 - Dispose of the wrapped pet waste in the trash or unwrapped in a toilet.
 - Never discard pet waste in a storm drain.

Don't feed wildlife

- Do not feed wildlife, such as ducks and geese, in public areas.
- Many municipalities and other public agencies must enact and enforce a rule that prohibits wildlife feeding in these areas.



Dispose of yard waste properly

- Keep leaves and grass out of storm drains.
- If your municipality or agency has yard waste collection rules, follow them.
- Use leaves and grass clippings as a resource for compost.
- Use a mulching mower that recycles grass clippings into the lawn.



- Place litter in trash receptacles.
- Recycle. Recycle. Recycle.
- Participate in community cleanups.



Contact information

For more information on stormwater related topics, visit www.njstormwater.org or www.noupgintsource.org

Additional information is also available and S.
Environmental Protection Agency Web sites
www.epa.gov/npdes/stormwater or www.epa.gov/nps

New Tersey Department of Environmental Protection Division of Water Quality Bureau of Nonpoint Pollution Control Municipal Stormwater Regulation Program (609) 633-7021



www.cleanwaternj.org



Simple Tips to Help You Conserve Water INSIDE Your Home

View Video of simple tips to help you conserve water inside your home

Here are some tips for saving water and money in the bathroom ...

- Update your shower with a low-flow showerhead and save up to 7,665 gallons and up to \$50 per year.
 Cut down the time you spend in the shower to 5 minutes ... and remember the suggestion of switching from baths to 5-minute showers and save 76,650 gallons and up to \$498 per year.
 Replace that old water guzzling toilet with a WaterSense low-flow version and save 10,986 gallons and up to \$70 per
- year.
- Get your family to turn the water off while brushing their teeth and save up to 11,680 gallons and up to \$75 per year.
 Update your faucet or attach an inexpensive faucet aerator to your existing one and save 15,622 gallons and up to \$100
- Fix a constantly running toilet and save up to \$480 per year
 Install a <u>Gate Tube Toilet Water Saver</u> in your toilet tank and save up to 7,300 gallons and up to \$144 per year off your water and sewer bill... homes with wells and septic systems may significantly reduce the load and demand of the well and septic field.

For the kitchen ..

- Only wash dishes when the dishwasher is full and save up to 2,920 gallons and up to \$19 per year.
 Replace the old dishwasher with a new high-efficiency model and save up to 1,314 gallons and up to \$8 per year.
 Use a faucet aerator and change to a low-flow faucet when possible and save up to 15,622 gallons and up to \$100.
 Store drinking water in the refrigerator instead of running the faucet until the water is cold.

And in the laundry room ,..

- Upgrade to a high efficiency clothes washer and save up to 14,585 gallons and up to \$94 per year.
 Wash only full loads of clothing by adding until the washer is full and save up to 10,534 gallons and up to \$68 per year.
 Adjust the water-setting level to correspond with the size of the wash load.

These few tips add up to more than 167,000 gallons and up to approximately \$1,500 a year for the family to save,

*Calculations for water and money sayings are based on estimated water use for a family of four with a water rate of \$6.50 per 1,000 gallons. Note: Water rates vary around the State.

More Indoor Water Saving Tips:

- Wash fruits and vegetables in a basin and not under running water
 Do not defrost frozen food under running water; instead thaw in the refrigerator overnight
 Add food wastes to your compost pile instead of using the garbage disposal
- Take care of household leaks and save up to 10% on your water bill
- To detect leaks, check your water meter before and after two hours of no water use

Simple Tips to Help You Conserve Water OUTSIDE Your Home

Video of simple tips to help you conserve water outside your home

Here are some tips for saving water and money while watering lawns and landscapes...

- Only water when needed, New Jersey landscapes need approximately one inch of water a week ... most of which often
- Water flowers with rain collected from your roof with a barrel connected to your outter downsport
- Use 30-50% less water with drip irrigation and micro-sprays compared to sprinkler
- If you have an irrigation system, get a system audit done by an irrigation specialist who is certified as a USEPA WaterSense

Here are some tips for saving water and money in the Garden:

- Use native plants that survive best in local conditions, and group plants together based on water need
 Choose drought-tolerant grass varieties such as tall fescues
- Mulch around trees and plants to reduce evaporation and water-consuming weeds.

 Cut back on lawn areas and increase the size of low water using and native plant garden beds.

Here are some tips for saving water and money while doing household chores:

- Wash the car with a bucket, or use a commercial car wash that recycles water
 When using a hose, control the flow with an automatic shut-off nozzle
- Raise your lawn mower blade to at least 3 inches to promote deeper roots and root system shade that holds soil moisture
- Don't over fertilize lawns as they need more water to survive Sweep driveways, sidewalks and steps rather than hosing them off

Here are some tips for saving water and money during recreational times:

- Avoid recreational toys that require a constant stream of water
- If you have a pool, remember to purchase a water-saving filter
- · Cover your pool to reduce evaporation when not in use

More Outdoor Water Saving Tips:

- You are over watering when puddles are forming on the landscape or in the street.

 Do not water during the heat of the day water in the early morning hours or early evening hours to reduce evaporation. Save water and reduce diseases by watering the root zone instead of the foliage.

 Water deeply, less frequently for a deeper, healthier root systems.

 Refer to these manuals for more ideas:

- Conserving Water on Home Lawns and Landscapes in New Jersey
 Landscaping for WaterConservation
 Low Maintenance Landscaping (pdf)
 Add organic matter to the soil to improve water and nutrient-holding capacity for healthier plants
- Use dehumidifier and air-conditioner condensation to water your plants