



Passaic Valley Water Commission
1525 Main Avenue • P.O. Box 230
Clifton, NJ 07011

This report contains information about your drinking water.
If you do not understand it, please have someone translate
it for you.

Este informe contiene informacion muy importante sobre
su agua beber. Traduzcalo o hable con alguien que lo
entienda bien.

આ અહેવાલમાં તમારું પીવાનું પાણી વિશે
જરૂર જાણવાની જાણ છે.
જો તમે તે સમજી શકતા નથી તો કોઈને
તે સમજાવવાનું કહો.

للعومات في هذا التقرير تحتوي على
معلومات مهمة عن مياه الشرب التي
تشرىها. من فضلك اذا لم تفهم هذه
اللعومات اطلب من يترجمها لك.

PB

Landlords must distribute this information to every tenant as soon as practicable, but no later than three business days after receipt. Delivery must be done by hand, mail or email, and by posting the information in a prominent location at the entrance of each rental premises, pursuant to section 3 of P.L. 2021, c. 82 (C.58:12A-12.4 et seq.).

Dear Passaic Valley Water Commission Consumer,

I am pleased to share the 2022 Drinking Water Quality Report with you. Passaic Valley Water Commission (PVWC), prides itself in providing this comprehensive and accessible report. This report provides our customers with important information about the quality of their drinking water.

Your drinking water is delivered to your tap from the Nosenzo Pond Well System through an extensive distribution system. This is all made possible by our dedicated and certified staff that manage and maintain this system to preserve the drinking water quality. Throughout this process, the PVWC monitors your drinking water for more than 200 regulated and unregulated contaminants to ensure that our system delivers high-quality drinking water that meets or surpasses state and federal standards.

If you have any questions related to this report, water quality, water pressure, billing, construction projects, or other inquiries, please contact our Customer Service Department at 973-340-4300. Our hours of operation, including the walk-up payment window, are Monday through Friday, excluding State holidays, from 7:30 a.m. to 6:00 p.m. Our phone lines are open an extra half hour until 6:30 p.m. You can also contact us via email at customerservice@pvwc.com. Additional information about PVWC, including important news and alerts, can be found on our website at www.pvwc.com. For emergencies, call 973-340-4300, 24 hours per day/7 days per week.

Sincerely,

Gerald Friend
President, PVWC Board of Commissioners

We're Here for You

The PVWC Board of Commissioners encourages you to participate in decisions that may affect the quality of your drinking water. You can present your comments through the PVWC website at www.pvwc.com or come in person to the monthly meetings of the Board of Commissioners. For dates, times and locations of these meetings, or for additional copies of this report contact our Customer Service Department at 973-340-4300, or customerservice@pvwc.com. All meetings are announced in accordance with public meetings law.

For Board Agendas and Meeting Minutes, or for more information on upcoming meetings visit us at www.pvwc.com or contact our Customer Service Department at 973-340-4300, or customerservice@pvwc.com.



Commissioners

Gerald Friend, President, Clifton
Jeffrey Levine, Vice President, Paterson
Rigoberto Sanchez, Treasurer, Passaic
Ruby N. Cotton, Secretary, Paterson
Carmen DePadua, Commissioner, Paterson
Joseph Kolodziej, Commissioner, Clifton
Ronald Van Rensalier, Commissioner, Passaic

Post Brook PWSID NJ1615008

PASSAIC VALLEY WATER COMMISSION

2023 Drinking Water Quality Report

Based on Data from the 2022 Calendar Year

Why am I getting this report?

Passaic Valley Water Commission (PVWC) is pleased to welcome you to our 2023 Water Quality Report. This report provides a summary of information collected during the calendar year 2022 regarding compliance monitoring required by both the United States Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (NJDEP), as well as additional water quality monitoring data. We hope that you will take a minute to review this report and learn more about your drinking water.

Drinking water regulations require PVWC to provide this information to customers each year. Most of the language is required by the EPA and NJDEP to make sure that our ratepayers know what is in their drinking water. PVWC has tried to make this complex information readable and produce this report at a low cost.

For additional copies of this report contact our Customer Service Department at 973-340-4300, or customerservice@pvwc.com.

Susceptibility Chart Definitions

Pathogens: Disease-causing organisms such as bacteria, protozoa, and viruses, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife. Common sources are animal and human fecal wastes. These contaminants may be present in source water.

Nutrients: Compounds, minerals and elements that aid growth, which can be either naturally occurring or man-made. Examples include inorganic nitrogen and phosphorus.

Pesticides: Man-made chemicals used to control pests, weeds, and fungi. Common sources include manufacturing centers of pesticides, and where they are used in agricultural, industrial, commercial, and residential environments. Examples include herbicides such as atrazine, and insecticides such as chlordane.

Volatile Organic Compounds: Compounds containing carbon, including synthetic and volatile organic chemicals, which are products or by-products of industrial processes or petroleum production. They are typically used as solvents, degreasers, and gasoline components. These compounds may be present in source water as a result of releases from gas stations, fuel storage tanks, industrial facilities, stormwater runoff, and other sources. Examples include benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.

Inorganic Contaminants: Contaminants 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. These contaminants may be present in source water.

Radionuclides: Radioactive substances that are both naturally occurring and man-made, may be present in source water naturally or as a result of oil and gas production and mining activities. Examples include radium, radon and uranium.

Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment.

Disinfection By-product Precursors: A common source is naturally-occurring organic material in surface water. Disinfection by-products are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (DBP precursors) present in surface water.

Post Brook's 2 Wells	Pathogens	Nutrients	Pesticides	Organic Compounds	Inorganic Contaminants	Radionuclides	Radon	Disinfection Byproduct Precursors
Medium	Medium	Medium	Low	Low	Low	Medium	High	Medium

Intake Susceptibility Ratings

The source water assessment performed on the Post Brook wells lists the following susceptibility ratings for a variety of contaminants that may be present in source waters:

The source water assessment performed on the Post Brook wells lists the following susceptibility ratings for a variety of and concentrations above allowable levels.

to monitor for regulated contaminants and to install treatment if any of those contaminants are detected at frequencies the potential for contamination of a source water, not the existence of contamination. Public water systems are required contamination category, it does not mean a customer is – or will be – consuming contaminated water. The rating reflects water assessment web site at <http://www.nj.gov/dep/watersupply/swap/index.htm> or by contacting NJDEP's Bureau of Safe Drinking Water at 609-292-5550 or watersupply@dep.nj.gov. If a system is rated highly susceptible for a Water Assessment for the Post Brook Water System (PWS ID 1615008) can be obtained by accessing NJDEP's source The NJDEP has prepared Source Water Assessment reports and summaries for all public water systems. The Source

Source Water Assessment

The Post Brook PWS is currently supplied by two groundwater wells (the Nosenzo Pond wells), which are located within the Post Brook community in a well house designed and constructed by PVWC. The is also treated with a phosphate-based sequesterant to keep manganese dissolved in the water. The West Milford Municipal Utilities Authority (MUA) groundwater supply is available as an emergency backup to the Nosenzo Pond wells.

Our Source

If your home or business is in the area of Nosenzo Pond in West Milford you are in PVWC's Nosenzo Pond Service Area. PVWC is a public drinking water supplier owned by the cities of Paterson, Clifton, and Passaic. PVWC also owns and operates the Post Brook Public Water System (PWS).

This report covers water quality for the Post Brook Service Area in West Milford.

About This Report

Children may receive a slightly higher amount of a contaminant present in the water than do adults, on a body weight basis, because they may drink a greater amount of water per pound of body weight than do adults. For this reason, reproductive or developmental effects are used for calculating a drinking water standard if these effects occur at lower levels than other health effects of concern. If there is insufficient toxicity information for a chemical (for example, lack of data on reproductive or developmental effects), an extra uncertainty factor may be incorporated into the calculation of the drinking water standard. Thus making the standard more stringent, to account for additional uncertainties regarding these effects. In the cases of lead and nitrate, effects on infants and children are the health endpoints upon which the standards are based.

SPECIAL CONSIDERATIONS REGARDING CHILDREN, PREGNANT WOMEN, NURSING MOTHERS AND OTHERS

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

Organic Chemicals- both synthetic and volatile, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Pesticides and Herbicides- from a variety of sources such as agriculture, stormwater runoff, and residential uses.

Inorganic- salts and metals, which can occur naturally or result from urban storm runoff, industrial, or domestic wastewater discharges, oil and gas productions, mining, or farming.

Microbial- such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, pet waste, and wildlife.

human or animal activity. Contaminants that may be present in the source water include:

The sources of drinking water, both tap and bottled, include surface sources such as rivers, streams, lakes, and reservoirs, and groundwater sources (wells). As water moves through the ground or over surfaces it dissolves naturally occurring minerals and, in some cases, radioactive material. Water can also pick up substances resulting from the presence of All drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some information about contaminants and potential health effects call the EPA's Safe Drinking Water Hotline at 800-426-4791 or visit www.epa.gov/safewater.

water providers in the state. (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health. The NJ Department of Environmental Protection is charged with monitoring compliance with those limits by that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) prescribes regulations in order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA)

A Note to People with Special Health Concerns

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 reduce the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 800-426-4791.

2022 Water Quality Results- Table of Detected Contaminants Post Brook (Nosenzo Pond Wells) PWSID NJ1615008					
Regulated Contaminant (units)	Goal (MCLG)	Highest Level Allowed (MCL)	Nosenzo Pond Wells PWSID NJ1615008 TPO07017	Source of Substance	Violation?
Treated Drinking Water at the Entry Point to the Distribution System					
Barium (ppm)	2	2	0.063	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.	No
Nickel (ppb)	NA	NA	1.36	Erosion of natural deposits.	No
Fluoride (ppm)	4	4	0.41	Erosion of Natural Deposits.	No
Combined Radium (pCi/L)	0	5	1.91 (2021 Data)	Erosion of Natural Deposits	No
Gross Alpha (pCi/L)	0	15	8.92 (2021 Data)	Erosion of Natural Deposits	No
Uranium (ppb)	0	30	3.2	Erosion of Natural Deposits	No
Perfluorooctanesulfonic acid [PFOS] (ppt)	0	13	45.5 <i>highest running annual average (ND-59.6)</i>	Metal plating and finishing, discharge from industrial facilities, aqueous film-forming (firefighting) foam	Yes*
Perfluorooctanoic acid [PFOA] (ppt)	0	14	5.86 <i>highest running annual average (ND-6.96)</i>	Metal plating and finishing, discharge from industrial facilities, aqueous film-forming (firefighting) foam	No
We are working with the NJDEP to address this violation. Please refer to the section "PFOS Update" below for more detailed information.					
Treated Drinking Water from Points throughout the Distribution System- Post Brook PWSID NJ1615008					
Disinfection Residual					
Chlorine (ppm)	4	4	0.80 <i>highest running annual average (0.55-1.32)</i>	Water additive used to control microbes.	No
Disinfection Byproducts					
Haloacetic Acids [HAA5] (ppb)	NA	60	9.92	By-product of drinking water disinfection	No
Total Trihalomethanes [TTHM] (ppb)	NA	80	17.57	By-product of drinking water disinfection	No
Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system and may have an increase risk of getting cancer.					
Regulated at the Consumer Tap (2021 Sampling)					
Copper (ppm)	1.3	1.3 (Action Level)	0.32 90th percentile <i>(0 out of 7 samples exceeded Action Level)</i>	Corrosion of household plumbing systems	No
Lead (ppb)	0	15 (Action Level)	3.24 90th percentile <i>(0 out of 7 samples exceeded Action Level)</i>	Corrosion of household plumbing systems	No
Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink the water over many years could develop kidney problems of high blood pressure.					

2022 Water Quality Results- Table of Detected Secondary Parameters

Contaminant	NJ Recommended Upper Limit (RUL)	Nosenzo Pond Wells PWSID NJ1615008 TPO07017	
		Result	RUL Achieved?
Treated Drinking Water at the Entry Point to the Distribution System			
Alkylbenzene Sulfonate [ABS]/ Linear Alkylbenzene Sulfonate [LAS] (ppb)	500	190	Yes
Alkalinity (ppm)	NA	96.5	NA
Chloride (ppm)*	250	500.5	No
Hardness, CaCO ₃ (ppm)***	250	692	No
Manganese (ppb)**	50	420.9 Average (255.9-541.4)	No
Odor (Threshold Odor Number)	3	9	No
pH	6.5 to 8.5 (optimum range)	7.46	Yes
Sodium (ppm)****	50	62.05 Average (54.19-73.11)	No
Sulfate (ppm)	250	19.5	Yes
Total Dissolved Solids (ppm)***	500	1102	No
Zinc (ppb)	5000	156	Yes

*The Recommended Upper Limit (RUL) for chloride is based on increasing conductivity, corrosivity and saline taste of the water at this and higher concentrations.

**The Recommended Upper Limit (RUL) for manganese is based on staining of laundry. Manganese is an essential nutrient, toxicity is not expected from high levels which would be encountered in drinking water. PVWC adds a sequestering agent (a chemical additive) to the water from the Post Brook groundwater wells to bind with the manganese and keep it dissolved so that it does not stain laundry. In 2021, the ground water supply entering the Post Brook water system exceeded the RUL of 100 ppb for manganese for water systems that use a sequestrant.

***The groundwater that is used to supply the Post Brook system contains a variety of natural minerals, including manganese. These mineral result in increased hardness and total dissolved solids. Information on the hardness of water in "grains per gallon" can improve the function of dishwashers,cooling equipment, and other process applications. To convert the Hardness value shown above into grains per gallon, divide the Hardness value in parts per million (ppm) by 17.

****For healthy individuals, the sodium intake form water is not important, because a much greater intake of sodium takes place from salt in the diet. However, sodium levels above the recommended upper limit may be a concern to individuals on a sodium restricted diet.

Monitoring Waiver Information

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos and synthetic organic compounds (SOCs). A monitoring waiver was granted for distribution system monitoring of asbestos in the Post Brook Distribution System for the 2020-2028 monitoring period.

Additional Monitoring Results- Perfluorinated Chemicals

Contaminant	Highest Level Detected and Range (Low-High)	
Treated Drinking Water at the Entry Point to the Distribution System		
Perfluorohexanesulfonic acid [PFHxS] (ppt)	24.8 (ND-24.8)	Test results presented in this table were collected in 2022 to monitor the occurrence of emerging contaminants. There are currently no EPA drinking water standards for these contaminants. NJDEP adopted a maximum contaminant level (MCL) of 13 parts per trillion (ppt) for Perfluorononanoic acid (PFNA) in 2018 and 14 ppt for PFOA and 13 ppt for PFOS effective in 2021.
Perfluorobutanesulfonic aci [PFBS] (ppt)	5.4 (ND-5.4)	
Perfluoroheptanoic acid [PFHp/A] (ppt)	2.08 (ND-2.08)	
Perfluorohexanoic acid [PFHxA] (ppt)	3.88 (ND-3.88)	
Please read more about PFOA and PFOS in the 'IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER and PFOS Update' section.		

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

The U.S. Environmental Protection Agency (EPA) has been evaluating the occurrence of certain unregulated contaminants in drinking water supplies nationwide to determine whether drinking water standards should be developed for those contaminants. Two of the unregulated contaminants are Perfluorooctanesulfonic (PFOS) and Perfluorooctanoic Acid (PFOA). EPA has published "Health Advisory" levels for these two drinking water contaminants that have been found in various parts of the country. On April 1, 2019, NJDEP formally proposed maximum contaminant levels (MCLs) of 14 ppt for PFOA and 13 ppt for PFOS. The MCLs became effective January 1, 2021.

Passaic Valley Water Commission (PVWC) has been monitoring for PFOS and PFOA since 2018 to determine whether the Post Brook water supply contains these contaminants and at what levels they were found in the drinking water.

PVWC-Postbrook exceeded the PFOS MCL beginning June 2021. Treatment was installed and put into operation August 17, 2022. The treatment system is working and successfully removing PFOS from your drinking water. The water is currently below detectable limits and is under the MCL.

What are PFOS and PFOA?

PFOS and PFOA are part of a group of perfluorinated chemicals that have been extensively produced in recent decades. They can be present in a wide range of consumer products such as stain- and water-repellent fabrics for carpets, clothing, upholstery, and grease-resistant food packaging and cookware, etc. They are also used for firefighting at airfields and in some industrial processes. EPA considers these to be "emerging contaminants." As water testing technology becomes more and more sensitive, newer contaminants "emerge" as having been present in drinking water all along, and they become more easily studied.

**People who drink water containing PFOS in excess of the MCL over time could experience problems with their immune system, kidney, liver, or endocrine system. For females, drinking water containing PFOS in excess of the MCL over time may cause developmental effects and problems with the immune system, liver, or endocrine system in a fetus and/ or an infant. Some of these developmental effects may persist through childhood.*

**For specific health information see https://www.nj.gov/health/ceohs/documents/pfas_drinking%20water.pdf and <https://www.nj.gov/dep/pfas/index.html>;*

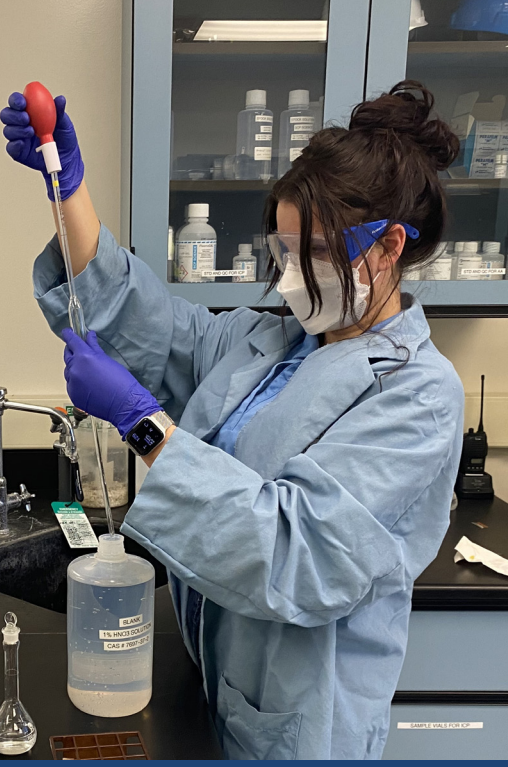
PFOS UPDATE

PVWC installed treatment to combat PFAS in our Postbrook system. The system went into operation on August 17, 2022. PVWC is currently working with the NJDEP to solidify permits to define the ion exchange treatment system as permanent. Regular updates with the projects progress have been mailed to customers on a quarterly basis. To see any of the notices please go to: (<https://www.pvwc.com/water-quality/pfos/>). Thank you for your patience and cooperation during this time!

What should I do?

You may learn more about PFAs on the internet at: <https://www.nj.gov/dep/pfas/>

For more information, please contact our Customer Service Department at 973-340-4300 or customerservice@pvwc.com.



Important Information About Lead In Your Drinking Water

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. PVWC 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 is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Health Effects of Lead

Lead can cause serious health problems if too much enters your body from drinking water. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of the body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

Sources of Lead

Lead is a common metal found in the environment. Drinking water is one possible source of lead exposure. The main sources of lead exposure are lead-based paint and lead-contaminated dust or soil, and some plumbing materials. Lead can also be found in certain types of pottery, pewter, brass plumbing fixtures, food, and cosmetics. Lead is found in some toys, some playground equipment, and some children's metal jewelry. Exposure in the work place and exposure from certain hobbies can also be sources (lead can be carried on clothing or shoes).

Lead is not present in the water supplied to you. When water has been in contact with pipes or plumbing that contains lead for several hours, the lead may enter the drinking water. This means the first water drawn from the tap in the morning, or later in the afternoon after returning from work or school, can contain fairly high levels of lead. Homes built before 1985 are more likely to have plumbing containing lead or lead solder. New homes may also have lead. Even brass faucets, fittings, and valves, including those advertised as "lead-free" may contain some lead.

Water Testing

Routinely, homes known to contain lead service lines and/or plumbing components are monitored in PVWC's Post Brook system. These houses represent a worst-case scenario for lead in water. Samples are collected after the water has been standing in the household plumbing for 6 hours or more.

A Lead and Copper Rule exceedance for lead occurs when more than 10 percent of these homes exceed the lead action level of 15 parts per billion.

In the most recent round of testing conducted by PVWC in 2021, 0 out of 7 homes exceeded the action level for lead.

FOR MORE INFORMATION

Contact us at 973-340-4300, customerservice@pvwc.com or visit our website at www.pvwc.com For more information on reducing lead exposure around your home/building and the health effects of lead, visit EPA's resources below, or contact your health care provider.

EPA's Safe Drinking Water Hotline: 800-426-4791

National Lead Information Center: 800-424-LEAD

EPA Website: www.epa.gov/lead



How You Can Reduce Your Exposure to Lead

- Run your water to flush out lead.** Run your cold water for 30 seconds to 2 minutes or until it becomes cold or reaches a steady temperature before using it for drinking or cooking, if it hasn't been used for several hours. This flushes lead-containing water from the pipes. Flushing usually uses less than one or two gallons of water and costs less than 30 cents per month.
- Use cold water for cooking and preparing baby formula.** Do not cook with or drink water from the hot water tap; lead dissolves more easily into hot water. Do not use water from the hot water tap to make baby formula.
- Do not boil water to remove lead.** Boiling water will not reduce lead.
- Look for alternative sources or treatment of water.** You may want to consider purchasing bottled water or a water filter. If purchasing a water filter, read the package to be sure the filter is approved to reduce lead. You can also contact NSF International at 800-NSF-8010 or visit their website at www.nsf.org for information on performance standards for water filters. Be sure to maintain and replace a filter device in accordance with the manufacturer's instructions to protect water quality.
- Test your water for lead.** Call PVWC at 973-340-4300 to find out how to get your water tested for lead, or for a list of local laboratories that are certified for testing lead. Testing is essential because you cannot see, taste, or smell lead in drinking water.
- Get your child's blood tested.** Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure. Your family doctor or pediatrician can perform a blood test for lead and provide you with information about the health effects of lead.
- Identify and replace plumbing fixtures containing lead.** A licensed plumber can check to see if your home's plumbing contains lead solder, lead pipes, or pipe fittings that contain lead. Your local building/code department can provide you with information about building permit records that should contain the names of plumbing contractors who plumbed your home.
- Find out whether your service line is made of lead.** PVWC maintains records of PVWC-owned materials, such as service lines (water main to curb box), located in the distribution system. Contact our Customer Service Department at 973-340-4300 for service line material materials records or go to www.pvwc.com/leadlookup

You should also determine whether or not the service line that comes from the curb box to your home is made of lead. The best way to determine if the service line to your home is made of lead is by hiring a licensed plumber to inspect the line.