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**AMERICAN SOCIETY OF SANITARY ENGINEERING
ILLINOIS CHAPTER
SANITATION NEWSLETTER**

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Sanitation and health

Some 827 000 people in low- and middle-income countries die as a result of inadequate water, sanitation, and hygiene each year, representing 60% of total diarrhoeal deaths. Poor sanitation is believed to be the main cause in some 432 000 of these deaths.

Diarrhoea remains a major killer but is largely preventable. Better water, sanitation, and hygiene could prevent the deaths of 297 000 children aged under 5 years each year.

Open defecation perpetuates a vicious cycle of disease and poverty. The countries where open defecation is most widespread have the highest number of deaths of children aged under 5 years as well as the highest levels of malnutrition and poverty, and big disparities of wealth.

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Benefits of improving sanitation

Benefits of improved sanitation extend well beyond reducing the risk of diarrhea. These include: reducing the spread of intestinal worms, schistosomiasis and trachoma, which are neglected tropical diseases that cause suffering for millions;

- reducing the severity and impact of malnutrition;
- promoting dignity and boosting safety, particularly among women and girls;
- promoting school attendance: girls’ school attendance is particularly boosted by the provision of separate sanitary facilities; and
- potential recovery of water, renewable energy and nutrients from fecal waste.

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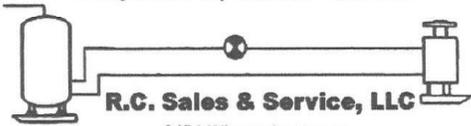
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The following provided by David Dertz; What David is doing to protect the people of Illinois. David sits on the ASSE Scald Guard Committee.



Lead in Drinking Water; an informational sheet from Aqua Flow Plumbing. This is a flyer David hands out

120 Easy Street, Suite 10
(PO Box 88656)
Carol Stream IL 60188

How does lead get into my tap water?

Lead found in tap water usually comes from the corrosion of older fixtures or from the solder that connects pipes. When water sits in leaded pipes for several hours, lead can leach into the water supply. Lead can also be found in some metal water taps, interior water pipes, or pipes connecting a house to the main water supply pipe in the street. When the water service line to your home has a leak and needs to be repaired or replaced, there is always the potential that lead can leach into your drinking water supply before or AFTER a repair or replacement is made.

- Corrosion is a dissolving or wearing away of metal caused by a chemical reaction between water and
-
-
- your plumbing. A number of factors determine the extent, to which lead enters the water, including:

The chemistry of the water (acidity and alkalinity) and the types and amounts of minerals in the water

The amount of lead that the water comes into contact

The temperature of the water

- The amount of wear in the pipes
- How long the water stays in pipes
- The presence of protective scales or coatings inside the plumbing materials

How do I know if my tap water is contaminated with lead?

The only way to know whether your tap water contains lead is to have it tested. You cannot see, taste, or smell lead in drinking water; therefore you must ask your water provider whether your water has lead in it. For homes served by public water systems, data on lead in tap water may be available on the Internet from your local water authority. If your water provider does not post this information, you should call and find out.

Most water systems test for lead at a certain number of homes as a regular part of water monitoring. These tests give a system-wide picture of whether or not corrosion is being controlled but do not reflect conditions at each home served by that water system. Since each home has different plumbing pipes and materials, test results are likely to be different for each home.

You may want to test your water if:

Your home has lead pipes (lead is a dull gray metal that is soft enough to be easily scratched with a house key)
Your non-plastic plumbing was installed before 1986

If my water has high lead levels, is it safe to take a bath or shower?

Yes. Bathing and showering should be safe for you and your children, even if the water contains lead over EPA's action level. Human skin does not absorb lead in water.

What can I do to reduce or eliminate lead in my tap water?

Does the service pipe at the street (header pipe) have lead in it? This information is very important. It determines which of the next two actions (A or B) should be followed to protect your household's health.

A) If the pipe in the street (header pipe) DOES NOT have lead: The lead in your tap water may be coming from fixtures, pipes, or elsewhere inside your home.

Until you eliminate the source, you should take the following steps any time you wish to use tap water for drinking or

cooking, especially when the water has been off and sitting in the pipes for more than 6 hours:

Before using any tap water for drinking or cooking, flush your water system by running the kitchen tap (or any other tap you take drinking or cooking water from) on COLD for 1–2 minutes;

Then, fill a clean container(s) with water from this tap. This water will be suitable for drinking, cooking, preparation of baby formula, or other consumption.

To conserve water, collect multiple containers of water at once (after you have fully flushed the water from the tap as described).

B) If the pipe at the street (header pipe) DOES contain lead: Lead in the tap water may be coming from that

pipe or connected pipes (it may also be coming from sources inside your home).

- Until the lead source is eliminated, you should take the following steps any time you wish to use tap water for drinking or cooking, especially when the water has been off and sitting in the pipes for more than 6 hours. Please note that additional flushing is necessary:

1. Before using any tap water for drinking or cooking, run high-volume taps (such as your shower) on COLD for at least 5 minutes or more
2. Then, run the kitchen tap on COLD for a minimum of 1–2 additional minutes
3. Fill a clean container(s) with water from this tap. This water will be suitable for drinking, cooking, preparation of baby formula, or other consumption. To conserve water, collect multiple containers of water at once (after you have fully flushed the water from the tap as described)

In all situations, drink or cook only with water that comes out of the tap cold. Water that comes out of the tap warm or hot can contain much higher levels of lead. Boiling this water will NOT reduce the amount of lead in your water.

This information applies to most situations and to a large majority of the population, but individual circumstances may vary. Some situations, such as cases involving highly corrosive water, may require additional recommendations or more stringent actions. Your local water authority is always your first source for testing and identifying lead contamination in your tap water. Many public water authorities have websites that include data on drinking water quality, including results of lead testing.

For more information on lead in water go to the EPA website:
<http://www.epa.gov/ccr>

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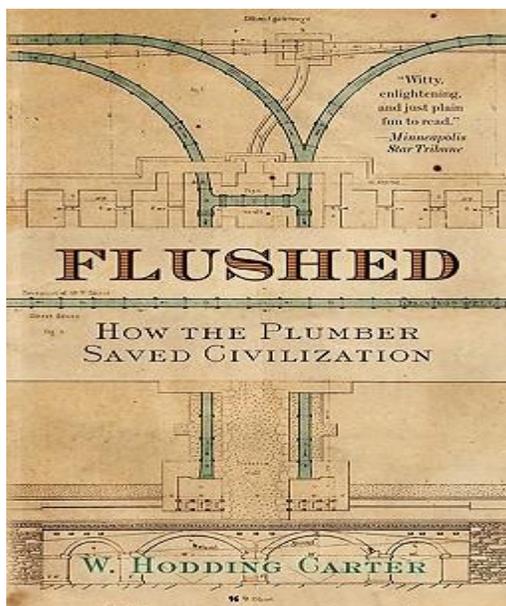
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HERE TRY THIS. I'M NOT TRYING IT, YOU TRY IT.

WHERE DID YOU GET THAT FROM? GRANDPAS HOSE BIBB



When you directional bore to replace a Lead service and cannot meet the 10' separation Code then you shall comply with State of Illinois Plumbing Code
Section 890.1150 b) 3) When compliance with subsection (b)(1) or (2) is not possible, a pressure rated pipe, approved for building drain material listed in Appendix A. Table A, shall encase the water service pipe. The casing pipe shall be sealed with a casing seal and extend 10 feet on either side of the center of the sanitary sewer pipe. The sleeve or case shall be at least two times the size of the water service.
If you run parallel to the sewer then the entire water service shall be encased



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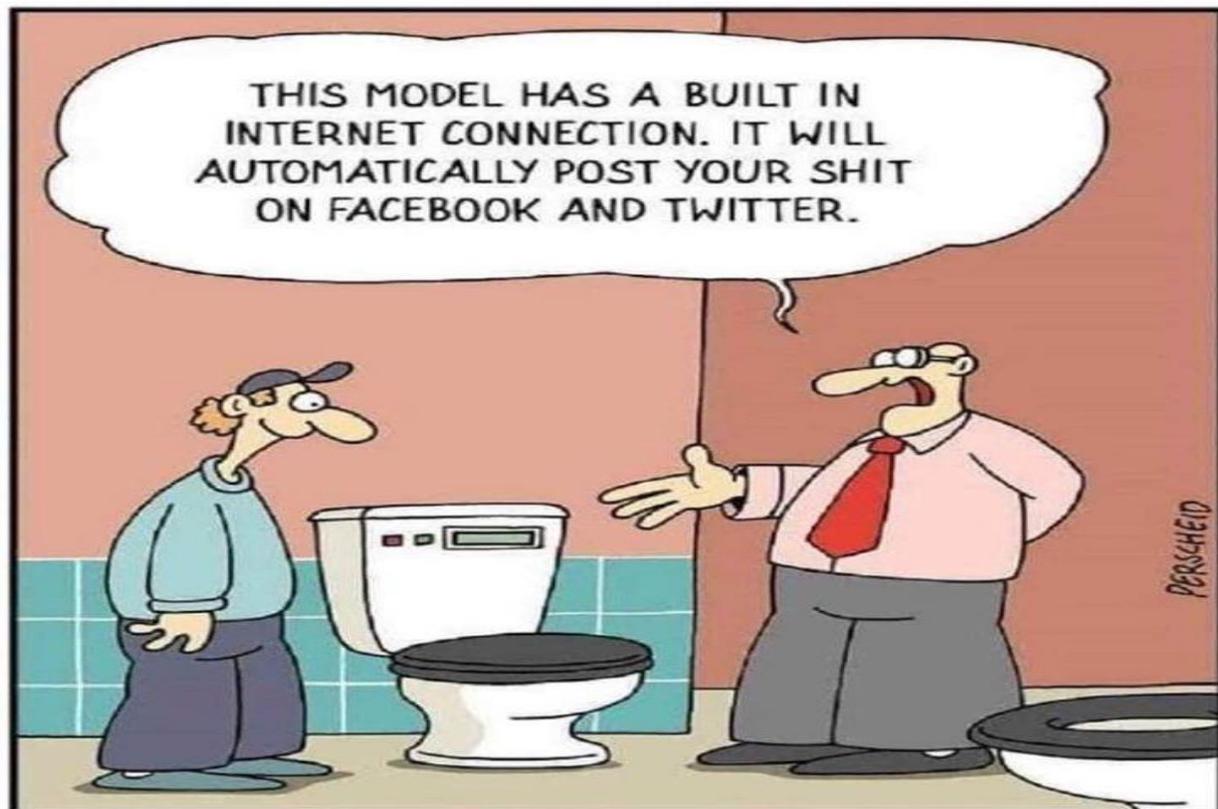
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In 2021, ASSE International was pleased to announce the publication of [ASSE 1013-2021](#), *Performance Requirements for Reduced Pressure Principle Backflow Prevention Assemblies*, [ASSE 1015-2021](#), *Performance Requirements for Double Check Backflow Prevention Assemblies*, [ASSE 1047-2021](#), *Performance Requirements for Reduced Pressure Detector Backflow Prevention Assemblies*, and [ASSE 1048-2021](#), *Performance Requirements for Double Check Detector Backflow Prevention Assemblies*. Commonly referred to as the RP/DC (reduced pressure/double check valve) standards, these standards are the preeminent standards for backflow protection assemblies. For a more in depth look at the functionality of these devices, please see the “Product Standards” column in this issue of *Working Pressure*. After a nearly ten-year span between revisions, the 2021 editions of these standards promise to ensure that the latest technologies and industry practices are accounted for in properly certifying RP/DC assemblies.

Below is an incomplete list of changes common to all four standards:

- Cold water applications have been separated from hot water applications
- Hot water testing has been raised to 180°F (formerly 140°F)
- Max working pressure shall be at least 175psi (vs 150psi in previous revisions)
- The life cycle test has changed. The flowing pressure has been raised to 60psi (formerly 30psi.) with a maximum working pressure of 175psi (vs 150 psi in the past)
- Fire protection devices are no longer covered by the RP/DC standards
- Manifolds are no longer covered by the RP/DC standards. As a result, the manifold tests have been removed.
- All assemblies must be designed to be serviced with commercially available tools. What do the changes in these standards mean for currently certified listees? For most listees, the above changes will require updated testing to be performed on currently listed models to ensure they conform to the revised standards. Most notably, compliance to the revised life cycle requirements will be necessary to upgrade certifications from the 2011 edition of the standard to the 2021 edition. In addition to the revised life cycle requirements, models will need to comply with sections of the standards routinely checked during the normal five-year test cycle, which is part of the usual continuous compliance check. The notable changes will be the revised pressures and temperatures mentioned above. The latest revision of the RP/DC standards reiterates ASSE’s unique standing as the only ANSI- and SCC-accredited One Year Field Test (1YT) program. ASSE’s 1YT certification program was developed for jurisdictions that require both one-year field test certification and adherence to the Uniform Plumbing Code® (UPC) and/or the International Plumbing Code® (IPC) – both of which require certification bodies to be accredited.

To review all changes to the revised RP/DC standards, you may obtain a copy at: <https://www.asse->

2021 Edition is published and goes into effect this summer

All plumbers and Plumbing Contractors shall be in compliance with the 2018 Illinois Energy Conservation Code pertaining to Section C404 Service Water Heating **(Mandatory)**



The Illinois Energy Conservation Code requires design and construction professionals to follow the **latest published edition** of the International Energy Conservation Code (IECC) or the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 "Energy Standard for Buildings except Low-Rise Residential Buildings" including amendments adopted by CDB.

Copy and paste to you search bar the following;

<file:///C:/Users/Gary%20Howard/Documents/Smart-Tip-HotWaterRecirc-Ver6.pdf>

The 2021 IECC code is published

Copy and paste into your search bar the following to see how to install domestic hot water recirculation systems;

<https://smartenergy.illinois.edu/wp-content/uploads/2021/02/Smart-Tip-HotWaterRecirc-Ver6.pdf>

The city of Chicago has their own variation of the energy code

<https://up.codes/codes/chicago>

2022 Environmental, Health, and Safety Outlook for Manufacturers

Friday, January 21, 2022

Last week, Jeff kicked off our 2022 outlook for manufacturers, covering corporate compliance and litigation. This week, I am turning to the environmental, health, and safety issues that may occupy the minds and the time of manufacturers in 2022.

1. Emerging Contaminants

We have been talking about per- and polyfluoroalkyl substances (PFAS) for so long now they hardly seem to qualify as “emerging.” But this year, EPA is expected to take a number of specific actions that will directly impact manufacturers. At the end of last year, EPA issued its PFAS Strategic Roadmap, outlining its action plan for PFAS through 2024. Notably, the Roadmap begins by classifying PFAS EPA’s approach into three directives: Research, Restrict, and Remediate.

In 2022, EPA aims to greatly expand monitoring of public drinking water supplies for PFAS. It also intends propose a rule to establish national primary drinking water regulations for two of the main PFAS compounds—PFOA and PFOS. To use an often-repeated phrase, when you look for PFAS compounds, you find them. This increased sampling, likely detection, and ultimate regulation of PFAS in public water supplies will likely lead to further legal action, as water suppliers and regulators alike look for the parties responsible for the PFAS they are almost certain to find when they start looking.

EPA is also expected to use Clean Water Act wastewater discharge permits as a way to reduce PFAS discharges. In 2022, EPA plans to restrict PFAS discharges from certain industrial categories—organic chemicals plastics, and synthetic fibers; metal finishing; and electroplating— as well as to study the potential for a number of other industries to contribute PFAS to the nation’s waterways through their discharges.

EPA has long talked about designating PFOA and PFOS (and potentially other PFAS compounds) as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). 2022 may be the year. EPA has committed to proposing that designation for PFOA and PFOS in 2022, with a final rule coming in 2023. It also plans to undertake formal efforts to determine whether other PFAS compounds should share this designation. The “hazardous substances” designation will allow EPA greater authority to seek information on, and require cleanup of, PFAS, and it will also open PFAS contamination up to the wild world of Superfund litigation.

We could devote the rest of this post to the potential for PFAS-related developments in 2022, but alas, there are other things we need to keep our eye on as well. But it is important to note that EPA is planning actions to further regulate PFAS across the board—under the programs listed above as well as the Toxic Substances Control Act, Clean Air Act, and others. And this is to say nothing of proposed state actions related to PFAS, which we also expect to heat up in 2022.

Contrary to what you might think based on the content of this post so far, PFAS is not the only emerging contaminant on our radar. Another one to watch in 2022 is microplastics. Microplastics are exactly what they sound like—tiny, often microscopic particles of plastic that can either be directly released into the environment or formed as a result of breakdown of larger plastics. California has already started down the road of developing regulations for microplastics, even while the scientific community still works to determine the potential human health and environmental impacts associated with them. Notably, California is working towards developing analytical testing methods for microplastics in 2022, which may kick off a wave of studies to determine how pervasive they truly are—and what to do about it

2. ESG Developments

While we continue to wait for more formal and consistent disclosure regulations from the U.S. Securities and Exchange Commission regarding ESG—environmental, social, and governance—factors, manufacturers are already dealing with ESG in a variety of ways. It is finding its way into corporate filings, board rooms, courtrooms, press releases, the media (traditional and social), and the minds of both investors and consumers. And it is having real consequences on the bottom line.

Many manufacturers have been making climate change-related disclosures for years, albeit under a general standard of materiality that is generally left to the interpretation of the discloser. In some cases, these disclosures have been used to tout a company's sustainability profile, and advertising and marketing efforts typically follow suit. But as consumers and investors grow increasingly interested in—and educated about—environmental issues, these sustainability statements can sometimes have the opposite impact. Many manufacturers have been the targets of greenwashing lawsuits, with plaintiffs alleging consumer protection violations when a manufacturer's claims about a particular product do not match up with reality. These claims have also found their way into shareholder derivative suits, as we have [previously reported](#). We can expect to see this activity continue, and likely increase, in 2022, as consumers and investors continue to meaningfully dig in to corporate sustainability claims as they evaluate their purchases and investments.

3. Environmental Justice Guidance

In 2022, EPA is expected to issue important guidance that has the potential to advance the Biden Administration's environmental justice agenda. The document, "Guidelines for Cumulative Risk Assessment Planning and Problem Formation," will provide a framework to analyze cumulative risk in situations of exposure to multiple environmental hazards. The guidance, which has been in the works for years, will be particularly important in assessing the impacts on vulnerable and disadvantaged communities. The guidance will be used in a broad range of environmental programs and is expected to impact cleanup priorities and enforcement decisions.

4. Employee Safety Related to COVID-19

If you are a regular reader, you know that we spent significant time in 2021 covering the myriad OSHA developments related to COVID-19. And while the Emergency Temporary Standard (ETS) related to vaccines and testing appears to be on life support, OSHA has made it clear that it will do everything in its power to protect the nation's workforce from COVID-19. Will that be through the ETS, another OSHA standard, or already-adopted guidance and the General Duty Clause? Only time will tell, but we can expect to see increased inspection and enforcement in 2022.