

the pipeline

Editor:
Bob Turnbull
www.swwa.ca

Lead ~ For Private Water and Health Regulated Public Water Supplies

What Is Lead?

Lead is a blue-gray metal found in nature combined with other elements. Lead is toxic and has no nutritional value, but is very valuable in manufacturing. Lead is used to make batteries, paints, ammunition, and some glazed ceramics. Prior to 1990, lead was also used to make plumbing materials. Due to health concerns, the lead content in gasoline, paints and ceramic products has been dramatically reduced.

How Does Lead Get Into Water?

Lead can get into drinking water by entering a drinking water supply or from lead-containing piping, home plumbing or fixtures. Contamination of source water can occur due to discharge from industries that burn fossil fuels, mine, smelt, and manufacture.

Older homes built prior to the mid-1950's are more likely to have lead pipes and service lines. Homes built between the mid-1950s and 1989 are not likely to have lead pipes or service lines. However, there may be lead in some fixtures or solder used to connect your pipes. Homes built after 1989 are unlikely to have lead in pipes, service lines, solder or joints. It is also possible that submersible pumps, especially the leaded-brass variety, could release lead into the drinking water and, therefore, may be a concern for

those that rely on a well. The amount of lead from the plumbing system that may be dissolved depends upon several factors. This includes pH, water temperature, the age of the plumbing, water quality and standing time of the water in the plumbing system.

How Does Lead Affect My Health?

Lead is very poisonous. Lead can damage kidneys, male reproductive system, liver, lungs, spleen, bone marrow, and bone. It may cause anemia, and possibly affect the memory. The effects of lead on adults are generally reversible, but not for children under six years of age. Lead intake can affect a child's mental and physical growth, and learning ability. A particular concern is water used for formula fed infants as it can contribute 40-60% of an infants lead intake.

Lead is also dangerous for unborn children as she/he can be exposed to lead through their mother. Harmful effects include premature births, small babies, and decreased mental ability in the infant.

Other Considerations

Lead in drinking water is most often from lead that may be in household plumbing or service lines. Houses with lead service lines or where lead is a concern and the drinking water has been sitting in the lines for 6 hours or

continued on page 2



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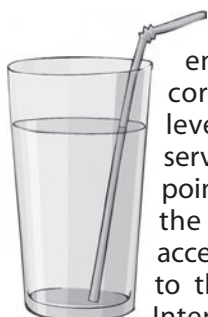
more should flush the water system by running the cold water faucet for at least 5 minutes or until the water gets very cold. This help to get rid of lead that may have leached out of pipes. In addition, homes where lead is an issue should not consume water from the hot water tap as heated water may contain higher lead levels.

If water at your property has been shown to have lead levels over the recommended level, children under the age of six and pregnant women should consider alternate sources of drinking water or use an approved filter attached to the tap. If your water has been tested and found to have levels below the recommended 0.010 mg/L, a filter is not recommended but flushing of the water for five minutes should continue.

Lead does not accumulate in fish, but it does in some shellfish such as mussels.

There is a blood test to identify lead poisoning. Medical treatment may be necessary if blood lead levels are high. Seek medical advice for symptoms that may be as a result of lead exposure.

How Can I Remove Lead From My Drinking Water?



Lead can only be prevented from entering the water by reducing the corrosiveness of the water to acceptable levels and by replacing water mains and service connections containing lead. At the point of use a water filter that is attached to the tap can be used to lower lead to acceptable levels. The filter should be conform to the National Sanitation Foundation (NSF) International standard for reducing lead (NSF/ANSI 53). An up to date listing of filters that meet the NSF 53 standard for lead can be found at <http://www.nsf.org/certified/dwtu>. Boiling the water will not remove lead and, in fact, may increase the lead levels as some of the water evaporates during boiling.

The best practice to reduce lead exposure levels at the consumers tap is flushing the plumbing materials prior to human consumption of water. Where lead has been demonstrated to be an issue, water suppliers should

consider the adoption of appropriate corrosion control measures including addition of corrosion inhibitors and monitoring pH and alkalinity levels in the piping system as this will reduce lead levels in finished water.

Quick Tips to Reduce Your Family's Exposure to Lead

Use cold water for drinking or cooking. Never cook or mix infant formula using hot water from the tap.

Make it a practice to run the water at each tap before use.

Do not consume water that has sat in your home's plumbing for more than six hours. First, make sure to run the water until you feel the temperature change before cooking, drinking, or brushing your teeth, unless otherwise instructed by your utility.

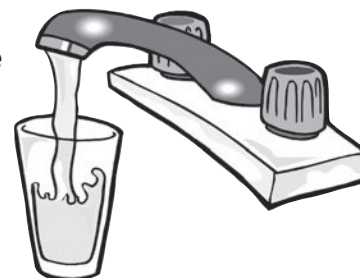
Municipalities in the province are encouraged to replace any lead piping systems by installing other suitable piping materials, such as polyvinyl chloride (PVC).

What Is The Standard For Lead In Drinking Water?

Both Health Canada and Saskatchewan Environment have established a maximum acceptable concentration (MAC) of 0.010 mg/L of lead in drinking water. Levels slightly over the acceptable limit of 0.010 mg/L are very unlikely to cause health effects in older children, men and non-pregnant women.

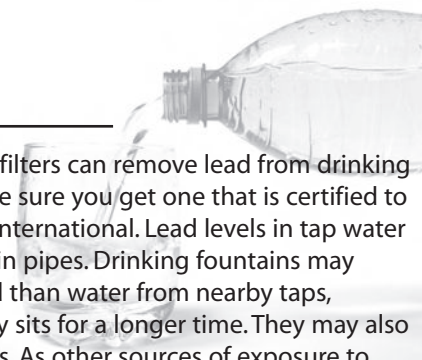
How Can I Find Out If There Is Lead In My Water?

Most water quality testing laboratories can determine how much lead is present in a water supply. For information on sampling instructions and containers, you should contact an accredited laboratory. If using the Saskatchewan Disease Control Laboratory (Provincial Lab), sample containers are available from the laboratory, local Health Regions, or rural municipalities. Taking both a standing water (water in the pipes for 6 hours or more) and a flushed (running water for at least 5 minutes) sample should be considered.



Acknowledgement: This Fact Sheet is one of a series developed by an Interagency Committee with representatives from Saskatchewan Ministry of Health, Regional Health Authorities, Saskatchewan Watershed Authority, Saskatchewan Ministry of Environment, Saskatchewan Ministry of Agriculture, Agriculture and Agri-Food Canada - AESB and Health Canada. Responsibility for interpretation of the content of this fact sheet rests with the user. Information in this fact sheet is provided solely for the user's information and, while thought to be accurate, is provided strictly as is and with out warranty of any kind, either express or implied. The Province of Saskatchewan hereby disclaims any liability or responsibility for any injury or damage resulting from the use, directly or indirectly, of the information contained herein.

Some faucet and pitcher filters can remove lead from drinking water. If you use a filter, be sure you get one that is certified to remove lead by the NSF International. Lead levels in tap water increase as water stands in pipes. Drinking fountains may have higher levels of lead than water from nearby taps, because the water usually sits for a longer time. They may also have more soldered joints. As other sources of exposure to lead are increasingly controlled, *water attracts increasing attention.* From the US EPA and World Health Organization



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Registration forms available at www.atap.ca under "Courses & Registration"

Visit us online at.....www.atap.ca

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Who I am

Since 2006 I have been a member of SWWA. I moved to Saskatchewan from Whitehorse Yukon, where I was employed as a project inspector for the Yukon government, highway, airport and bridge projects were my responsibility. My back ground is in Civil Engineering Technology, but experienced in forest engineering and Geomatics. I moved to Saskatchewan to become a Public Works and Utilities Manager responsible for stuff 100 feet in the ground to 1000 feet in the air, and everything in between. I enjoy the variety of work and all the great people that I meet and work with. I currently hold certification in class 2 WD, WWC, and class 1 WWT. I intend to obtain certification in class 4 WT. I have been privileged to work with some of the key members who started and maintained SWWA and bring it to where it is today. I wish to continue their hard work and effort and keep developing SWWA and the programs it has developed for it's members. I encourage all members to participate on the boards and committees to ensure their voice is heard.

OWEN GREEN

SWWA Web Site



The SWWA web site has a new home on the World Wide Web. It can now be found at **www.swwa.ca**.

Remember to update your favourites or bookmarks folder so we can always stay in touch!

For the time being, the old web site address will still work, but that will be phased out over time. The SWWA web site now operates from servers located in Saskatchewan. Until October of 2009, the SWWA's internet presence came to you from Massachusetts, USA.

The web site is a good place to keep up to date on SWWA activities and information. We try to keep it updated with the latest contact, education and workshop information. You can also find the latest issue of the Pipeline here (if you happened to misplace yours) as well as issues from the archives. If you're looking for a new job, career opportunities from within Saskatchewan and Western Canada are regularly posted on the web site.

Comments or suggestions for the SWWA web site can be directed to webmaster@swwa.ca or officeswwa@sasktel.net

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2011 Member Application

After filling out this form please mail to the address listed below.

Please provide the following information:

Type of Member: (Check one)

Regular:

A VOTING member of SWWA and is an employee involved in the O & M of water and/or wastewater systems within Saskatchewan.

Agency:

A NON-VOTING member of SWWA and is not employed in the O & M of water and/or wastewater systems, but has an interest in this field.

Supplier:

A NON-VOTING member of SWWA and is a company and/or person in the business of supplying goods and/or services to the water and/or wastewater industry.

First Name: _____ Middle Initial: _____

Last Name: _____

Position Held: _____

Organization: _____

Street Address/ Box Number: _____

City: _____ Province: _____

Postal Code: _____

Work Phone: _____ Work Fax: _____

Email: _____

Cost of a membership is \$42.00 (\$40.00 + \$2.00 GST # R124095159)

Mail this form & payment payable to:
Saskatchewan Water and Wastewater Assoc.
Box 7831, Saskatoon, Sk. S7K 4R5
Toll Free: 1-888-668-1278
Phone: 1-306-668-1278
Fax: 1-888-668-1279
E-mail: officeswwa@sasktel.net

Basic Science-Water Distribution Systems

How water chemistry affects your water distribution system.
Are your AC pipes in as good condition as you think they are?
New research from the NRC has information about the role of biofilm on AC distribution pipe – ally or enemy?
Are you doing all you can to preserve the integrity of your distribution system?
Water leaks and unaccountable losses, do you know how much they are costing you?

WORKSHOP REGISTRATION FORM

Basic Science-Water Distribution Systems (0.6 CEU) - Class Size: Min. 15 Max. 25. Lunch Included

March 29 – Yorkton

Location:

Sign In Time: 8:30 a.m.

Start Time: 9:00 a.m.

End Time: 4:30 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Deadline for workshop registration: March 15, 2011, two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$80.00 plus \$4.00 GST - \$84.00 _____

Non-Member Price: \$130.00 plus \$6.50 GST - \$136.50 _____

2011 Membership + Member Price: \$120.00 plus \$6.00 GST – \$126.00 _____

Complete the following IF you are purchasing a 2011 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Email address: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
PO Box 7831
SASKATOON SK S7K 4R5

PLEASE NOTE * FAXED REGISTRATIONS WILL NOT BE ACCEPTED*



Maintenance of Valves

Taking the Mystery out of Pilot Operated Automatic Control Valves
Operation, Basic Applications, Commissioning, Start Ups & Maintenance

WORKSHOP REGISTRATION FORM

Maintenance of Valves (0.6 CEU) - Class Size: Min. 15 Max. 25. Lunch Included

April 12 – Watrous

Location:

Sign In Time: 8:30 a.m.

Start Time: 9:00 a.m.

End Time: 4:30 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Deadline for workshop registration: March 31, 2011, two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$80.00 plus \$4.00 GST - \$84.00 _____

Non-Member Price: \$130.00 plus \$6.50 GST - \$136.50 _____

2011 Membership + Member Price: \$120.00 plus \$6.00 GST – \$126.00 _____

Complete the following **IF** you are purchasing a 2011 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Email address: _____

Submit this form and your cheque made payable to:

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PO Box 7831

SASKATOON SK S7K 4R5

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Solar Mount-Chlorine Safety

This workshop deals with chlorine safety and the solar mount system. What it is and how you use it. Chlorine is a killer. As an operator it is critical to be able to operate this system safely and efficiently.

WORKSHOP REGISTRATION FORM

Solar Mount-Chlorine Safety (0.6 CEU) - Class Size: Min. 15 Max. 25. Lunch Included

March 9 – Wakaw

Location:

Sign In Time: 8:30 a.m.

Start Time: 9:00 a.m.

End Time: 4:30 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Email address: _____

Deadline for workshop registration: March 3, 2011, one (1) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$125.00 plus \$8.75 GST - \$133.75 _____

Non-Member Price: \$180.00 plus \$12.60 GST - \$192.60 _____

2011 Membership + Member Price: \$145.00 plus \$10.15 GST – \$155.15 _____

Complete the following **IF** you are purchasing a 2011 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Email address: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association

PO Box 7831

SASKATOON SK S7K 4R5

PLEASE NOTE * FAXED REGISTRATIONS WILL NOT BE ACCEPTED*



Cross Connection Control

This is an introduction to cross connection with an explanation of the differences between back-syphonage and back pressure, the degrees of hazards, and what some devices look like and where they would be used.

WORKSHOP REGISTRATION FORM

Cross Connection Control (0.6 CEU) - Class Size: Min. 15 Max. 25. Lunch Included

April 29 – Saskatoon

Location: TBA

Sign In Time: 8:30 a.m.

Start Time: 9:00 a.m.

End Time: 4:30 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Email address: _____

Deadline for workshop registration: April 15, 2011, two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

Member Price: \$80.00 plus \$4.00 GST - \$84.00 _____

Non-Member Price: \$130.00 plus \$6.50 GST - \$136.50 _____

2011 Membership + Member Price: \$120.00 plus \$6.00 GST – \$126.00 _____

Complete the following **IF** you are purchasing a 2011 Membership **AND** attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Email address: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association

PO Box 7831

SASKATOON SK S7K 4R5

PLEASE NOTE * FAXED REGISTRATIONS WILL NOT BE ACCEPTED*

Lift Station Operation and Maintenance

This workshop is aimed at operators of small wastewater lift stations. Operation, maintenance and troubleshooting of end-suction submersible sewage pumps will be explained. A number of small (2.5HP) end-suction pumps will be disassembled and reassembled, and pump rating will be demonstrated. Training credits: 0.6 CEU. **STEEL TOE SAFETY SHOES/BOOTS ARE REQUIRED!**

WORKSHOP REGISTRATION FORM

Lift Station Operation & Maintenance (0.6 CEU) - Class Size: Minimum 12 Maximum 15, Lunch Included

May 9, 2011 Saskatoon

Location: Saskatoon Inn

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Email address: _____

Deadline for workshop registration: April 25, 2011, two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Member Price: \$125.00 plus \$6.25 GST - \$131.25 _____

Non-Member Price: \$175.00 plus \$8.75 GST - \$183.75 _____

2011 Membership + Member Price: \$165.00 plus \$8.25 GST – \$173.25 _____

Complete the following **IF** you are purchasing a 2011 Membership **AND** attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Email address: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association

PO Box 7831

SASKATOON SK S7K 4R5

Valves, Meters & Piping Attachments Workshop

This one-day workshop is of particular interest to operators working in water distribution systems. The workshop will discuss application, operation & maintenance of water meters, butterfly valves and pressure reducing valves. It will also explain the purpose and use of couplings, service saddles, repair clamps and tapping sleeves. Training credits 0.6 CEU.

WORKSHOP REGISTRATION FORM

Valves, Meters & Piping Attachments (0.6 CEU) - Lunch Included

Class size: Wynyard: Minimum: 12, Maximum: 30
Estevan: Minimum: 12, Maximum: 45

May 10, 2011 – Wynyard

Location: TBD

Sign In Time: 8:15 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

May 11, 2011 – Estevan

Location: TBD

Sign In Time: 8:15 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:00 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Deadline for workshop registration: March 27, 2011, two (2) weeks prior to dates of workshops. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshops.

Member Price: \$80.00 plus \$4:00 GST - \$84.00 _____

Non-Member Price: \$130.00 plus \$6.50 GST - \$136.50 _____

2011 Membership + Member Price: \$120.00 plus \$6:00 GST – \$126.00 _____

Complete the following **IF** you are purchasing a 2011 Membership **AND** attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Email Address _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association

PO Box 7831

SASKATOON SK S7K 4R5



Annual Golf Tournament

(Texas Scramble)
Limited Space Available

Friday, June 3, 2011 in Yorkton, Saskatchewan
Deer Park Golf Course
Highway 16A West
Registration 9:00 a.m. & Tee-Off Times 11:00 a.m.

Cost: \$60.00 plus \$3.00 GST per person if payment & registration received by May 5
\$75.00 plus \$3.75 GST per person if payment & registration received after May 5

(GST Registration # R124095159)

Includes: 18 holes of golf, steak supper, and prizes

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Address: _____	Employer: _____
Number Golfing: _____	Attending banquet only, not golfing (\$20.00 + \$1.00 GST) per person: _____
Handi-cap : _____	OR average score: _____

Banquet at the Golf Course

Please make cheques payable to:
Saskatchewan Water and Wastewater Association
Submit this form and your cheque to:

SWWA
Box 7831, Saskatoon, Sk. S7K 4R5

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Accommodations:

Best Western Yorkton Inn – 2 Kelsey Bay, Yorkton, SK 306-783-3297
When booking quote Group Block SWW. Reservations booked by May 1 get the group rate.

Ramada – 100 Broadway Street East, Yorkton, SK 306-783-9781
Reservations booked by May 1st get the group rate

Camping: Good Spirit Provincial Campground – 35 minutes NW of Yorkton, SK 306-792-4750

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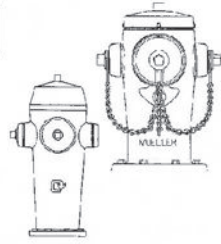


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Who I am

My name is Tim Cox and I have worked for the City of Swift Current for 16 years. I began with an 18 month stint as a Water Treatment Plant Operator, but most of my career has been in the collection system. I spent 11 years operating and maintaining the city's 13 lift stations before moving into my current position as Wastewater Treatment Plant Superintendent. I currently hold a level 3 WW Treatment certification.

Working in the water-wastewater industry has given me an appreciation how important our members are to their communities. I am extremely proud of both my treatment facility and my community and I hope to represent Swift Current well on the SWWA board. As it is my first term acting on the SWWA board, I look forward to learning new things from experienced members and contributing my own ideas as well.

TIM COX

Did you know that March 10, 2011 was a Bottled Water Free Day?

Bottled water free day is an opportunity for us to consider the implications of buying water in the small plastic containers. The following are some of the reasons why:

Water privatization has detrimental impacts on the environment and adds additional cost to the user. Access to safe drinking water should be a basic human right in all parts of the world.

The manufacture and disposal of plastic bottles releases dangerous toxic chemicals and contaminants into the air, contributing to environmental degradation.

Bottled water distribution requires fossil-fuel based transportation and contributes to global warming while tap water is energy efficient in its delivery

Independent, peer-reviewed scientific studies have found toxic contaminants such as arsenic, mercury and bromides in bottled water.

Public tap water is safe, healthy and significantly more accessible and environmentally sustainable than bottled water. Public ownership of water sources is the only way to ensure adequate, accessible and clean drinking water. Fill up your bottle from your home tap and enjoy!

Please Note: Due to the elections next year the SWWA Annual Conference will be held November 15 to 18, 2011 so that all may attend.

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In the early days. . .

In the early days, there was some "town/agency/supplier pin" swapping taking place, thus the pins on the hat. Both items were first issues. Picture of hat and pin with logo as well as a coffee cup.



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