



The **Source**

Summer 2017

A Publication of the Ontario Ground Water Association

OGWA 1st Annual Golf Tournament & Student Awards Fundraiser

September 29, 2017

Elmira Golf Club

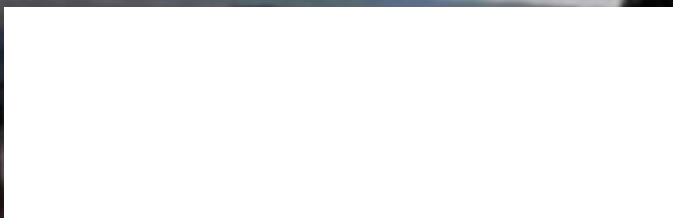
See Page 13

Hydrogeologists Without Borders

**presents GW 2.0 – digitizing
a popular textbook**

See Page 9

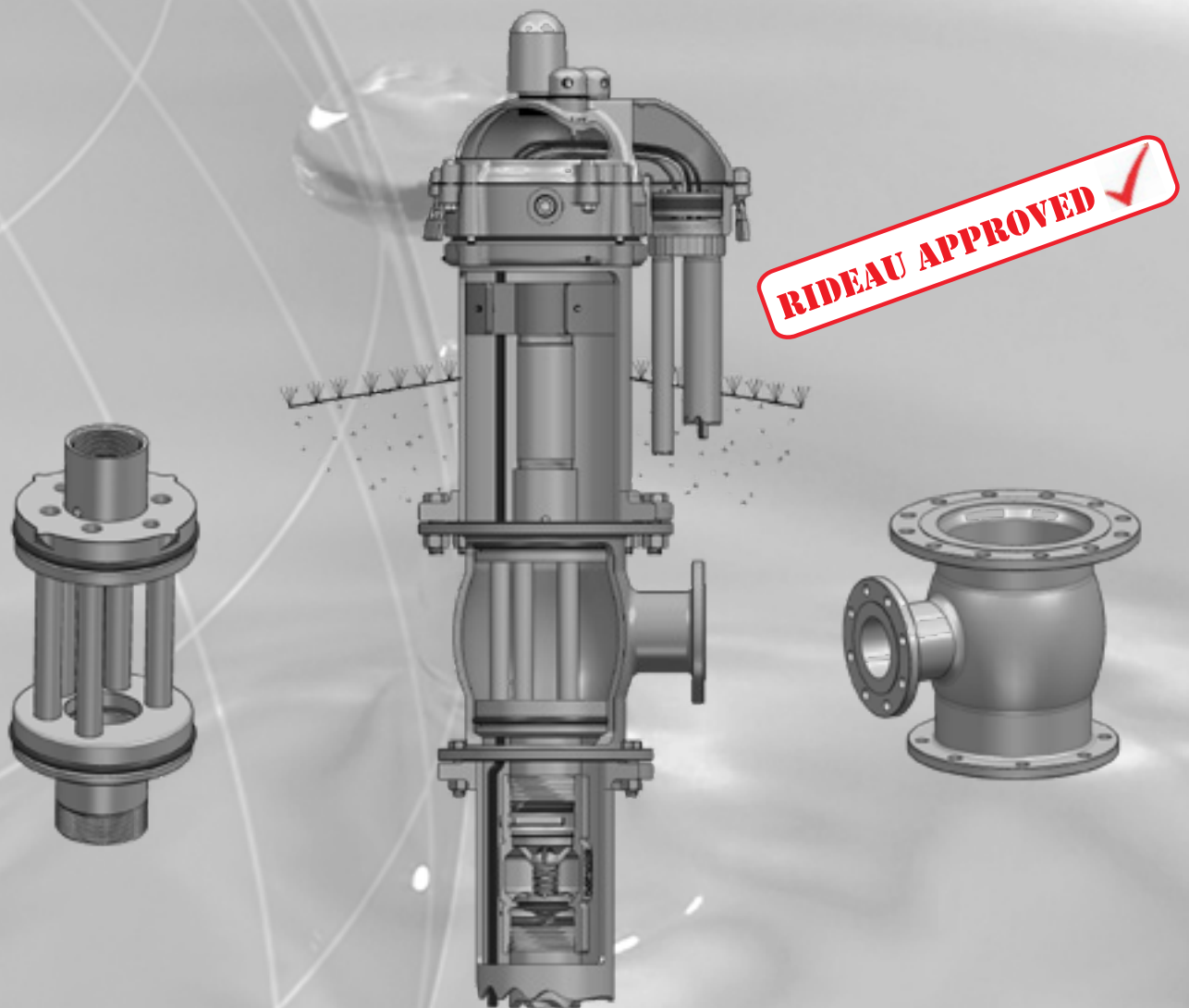
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2017 PRESIDENT'S SUMMER REPORT

It is with great honor that I have taken on the position of President of Ontario Ground Water Association this spring. I greatly value the importance of this association the groundwater industry as a whole. I often think to myself "Where would our industry be without the OGWA?" I think our regulations, competition, new technology and information distribution would be completely dysfunctional. There was a need for this association some 65 years ago when it was formed and as the industry has evolved over the years with several versions of regulations, drilling techniques and product development the OGWA was there to contribute, inform and educate our members, government agencies and public. There is so much more that the OGWA staff and board address on a regular basis that is not necessarily noticed by the bulk of the membership. I would like to take this opportunity to thank all of the previous OGWA Presidents and Board members for all of their contributions to the groundwater industry. Most recently I would like to thank Darren Juneau for his last three years as President and wish him luck in the future. I believe we currently have an excellent group for the OGWA Board of Directors. We have a nice mix of veteran directors, 2nd/3rd generation directors and new faces as well as our excellent staff. This mix will help us look at situations with several different views and result with actions that will benefit the majority our members.

I would like to urge all of our current members to become more involved in the OGWA, even if it is simply attending hosted events such as the regional meetings and convention/AGM. Just the simple act of attending events can keep you up to date on information and industry changes. Even sharing the odd story with your peers might inadvertently turn into a learning experience that could benefit you in a future situation. These events are an excellent venue for our Science & Engineering and Government members to meet well contractors face to face and vice versa. We are always looking for members to step forward as future Directors, but even getting involved with a committee or event would also be greatly appreciated.

For those of you that receive this publication and are not member, I encourage you to join. So often I hear excuses such as the cost or the question of 'what's in it for me?' I would prefer to think that if you have chosen a profession in the groundwater industry (contractor, consultant, supplier, etc.), would you not want to do everything you could to keep up to date on industry news and changes that may affect your business? Being a member in an industry association is one simple thing to assist in your business or career evolution. There is of course a list of membership benefits, some of which have potential cost savings, and who doesn't like saving money? For me, membership to the OGWA is just part of being a well technician and/or contractor, which leads me to the question "How can you NOT be a member of your industry's association?"

My exposure to the OGWA began when my father joined the Board of Directors thirty some years ago and served a term President. I was but a teenager back then and didn't really know what career path I would take, but now I am proud to carry on my family business's involvement in the OGWA. I am looking forward to my term as President.

Bryan Watson, President

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2017 EXECUTIVE DIRECTOR'S MESSAGE

I trust you are all having a busy summer season, those members whom I have spoken with certainly are. Drilling is very like farming in that one must make hay while the sun shines and you never really know at the beginning of a job exactly how long it will take. For the most part wells are created not installed and although you learn your area and what to expect, the proof is in the "putting" isn't it. You can drill but is there water? I was speaking to one of our members the other day that had come up with a dry hole and his client instigated him moving a short distance away and the second well was not dry as a matter of fact it tested at 50 gallons per minute.

Ralph Snider was the President of the Ontario Ground Water Association in 1971 and 1972. When Ralph passed his family set up a bursary/scholarship at Fleming College that would present cash from an interest bearing account and a plaque to the most improved Resources Drilling & Blasting student in the second semester, who has demonstrated general all-round proficiency and enthusiasm. Our Paul Conrad was the recipient of this award while at Fleming. All these 36 years later the capital and the interest it makes has dwindled and the last two years Paul has personally topped up the award. On investigation we are unable to locate any of the Snider family and Fleming College has indicated with that in mind that the OGWA is welcome to take ownership so to speak of the award.

The Board of Directors has discussed this on and off over the last two years. At the June 15th meeting at Heron Instruments it was decided that as we are constantly stretching for money a resolution was necessary. (Excerpted from the Draft minutes):

Fundraising Special Projects: We are looking for projects that will help raise funds specifically for all the awards. We need to generate \$500 for Archie Watt Student

Bursary and \$500 for the OGWA Past Presidents Award (Ralph Snider). It was calculated that \$40,000 would be needed to put in place to receive \$1,000 / year on an example of 2% interest annually. Golf tournaments have always made money for us. A tournament could have part of the fees designated toward this fund or some proceeds from a Silent Auction. Donations from members could be a consideration. Before Dec 1st for the membership drive, this will need to be decided. Discussion ensued about holding a golf tournament for funds to benefit an OGWA Past Presidents Award, annually offered to the most improved student as per the description currently in the award information. The Donation section on the Membership Form would also be revised to show a target for this award donation as a "directed" donation plus retain the general donation category already on the form. Paul will continue with supporting the Ralph Snider Award until the fundraising can be put in place.

MOTION # 4: That we put a line item on the new membership application for donations to a scholarship fund and use any donations and golf tournament profits to fund such scholarship awards.

The OGWA Board of Directors struck an Events Committee and they have since been hard at work. You will find inside this edition and on the website a promotional and registration page for our 1st Annual OGWA Golf Tournament in support of scholarships and the next generation in our industry. If you don't golf, do not despair, you are welcome to send your donation into the office earmarked "scholarship fund" and it will be added to the same account as the golf proceeds.

Lastly, there is further good news; I have just been notified of the date for the beginning of the next round of discussion as promised by the MOECC on the BMP's and Ont. Reg. 903. Progress is at hand ladies and gentlemen, I will have news as soon as I am able!

Craig Stainton



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Interns Aimee Lo, left, and Tory LaLiberte, right, are developing a web version of the hydrogeology textbook *Groundwater* under the supervision of Cathy Ryan, a professor in the Department of Geoscience and administrative director of the GW2.0 project. Photos by Riley Brandt, University of Calgary

Presenting...

GW2.0

An online educational resource on groundwater

Textbook project receives funding from Open Educational Resources Initiative



Digitizing popular hydrogeology textbook saves students money

By Susan Cannon, Faculty of Science

This fall, 140 University of Calgary students are paying a little less for their textbooks. These savings are the result of a project that acquired permission to digitize the highly cited but out-of-print book *Groundwater* and make it available online and free. Now the creation of an updated web version of the textbook is underway.

Hydrogeologists Without Borders (HWB) is a Canadian non-profit based in Calgary and one of its goals is to make the 1979 *Groundwater* textbook available online. This is a first step in a process to update the textbook via invited chapter contributions from select hydrogeologists worldwide.

A **free PDF version of the textbook** became available on the organization's website in May of this year. In July, development work began on the new web version.

Department of Geoscience professor **Cathy Ryan**, a member of HWB, is the administrative director of the GW2.0 project. "Groundwater is considered the classic by hydrogeologists around the world," says Ryan. "HWB is very fortunate that when Pearson Publishing gave copyright permission back to co-authors Alan Freeze and John Cherry — these gentlemen, in turn, gave our organization permission to make the book available online and at no cost to users."

Open Educational Resources provides valuable project funding

Funding received from **Alberta Open Educational Resources** enabled Ryan to hire two interns who are working on the textbook's website design.

Aimee Lo is a recent graduate from the University of Calgary's Urban Studies program and Tory LaLiberte is completing her degree in the Information Design Studies at Mount Royal University. Both are finding the work rewarding and challenging.

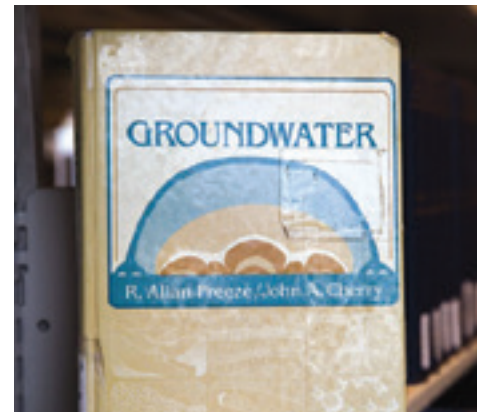
"Programs I learned and skills I developed in my urban studies program transfer easily to this project," Lo explains. "To transcribe 600 pages of text, we use an optimal character recognition app."

LaLiberte adds, "We're co-ordinating with volunteers at the University of Ottawa who are also transcribing the text. So it's very detailed work but also very interesting."

Lo and LaLiberte's biggest challenge with the GW2.0 project is figuring out how to display the textbook information on the website — including images, equations and tables — in a way that will be really helpful for users. Tracking down individuals for copyright permission for the figures in the textbook is also difficult at times.

GW2.0 will benefit students, teachers and organizations around the globe

According to Ryan, one of HWB's missions is to help developing countries build their capacity to provide safe, sustainable water supplies. The GW2.0 project is one way to communicate advanced groundwater science to groups in these regions who may not have access to this kind of information.



The web version of *Groundwater* will help communicate advanced groundwater science to groups in developing countries.

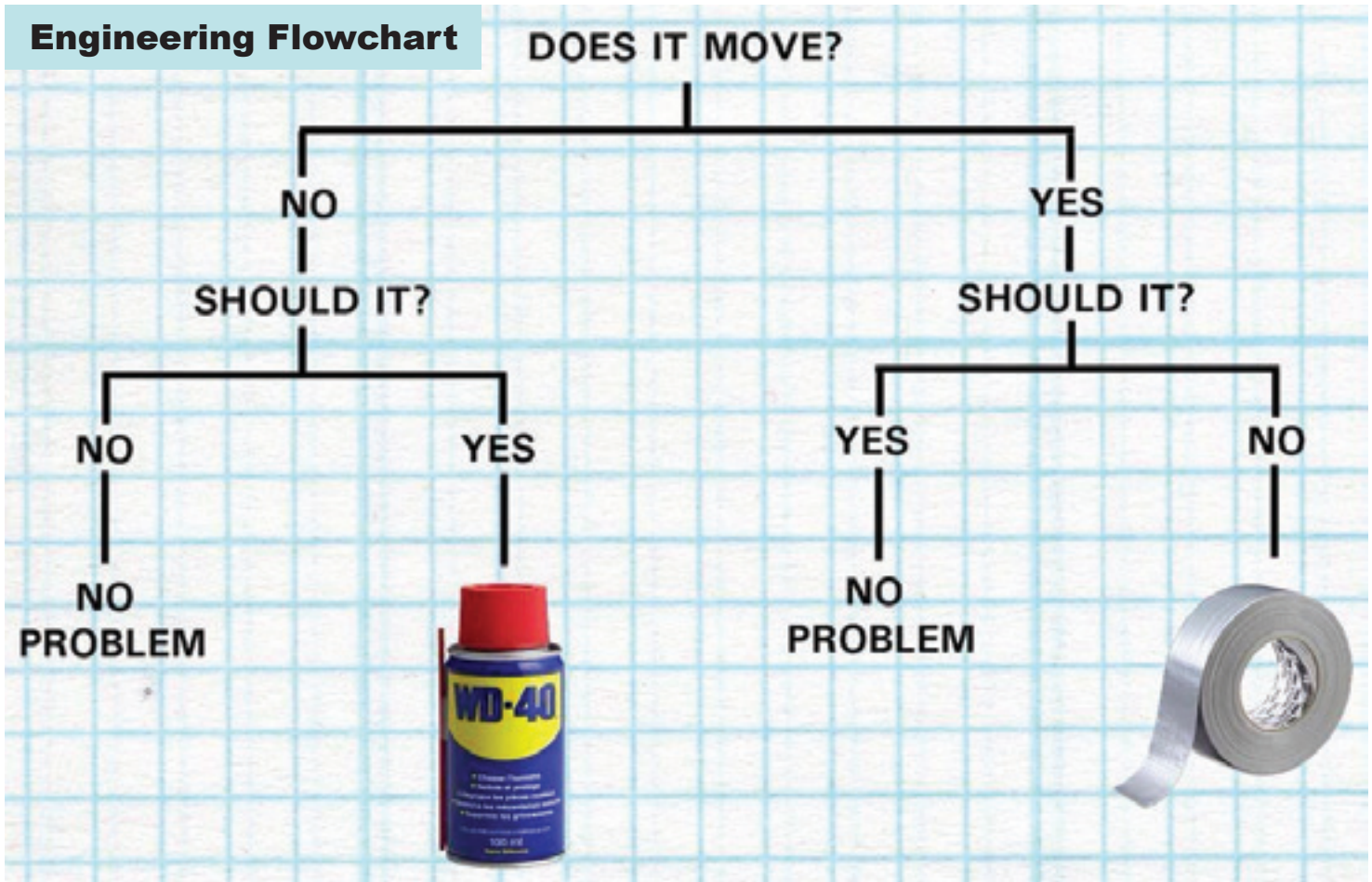
"The new web version of the book will be a living document," says Ryan. "Eventually chapters will be edited and new ones added. The 1979 version is currently being translated into Spanish and Portuguese by HWB volunteers in those countries. Additional translations are being planned as well as the inclusion of supplemental learning materials such as videos of laboratory and fieldwork demonstrations."

"We believe GW2.0 will have a broad impact," Ryan adds. "Yes, our students will benefit from access to the textbook at no cost but our ultimate goal is to make this valuable resource available to people around the globe who are more dependent on groundwater for their survival."

<http://www.ucalgary.ca/utoday/issue/2016-10-04/textbook-project-receives-funding-open-educational-resources-initiative>

<http://hydrogeologistswithoutborders.org/wordpress/textbook-project-receives-funding-from-open-educational-resources-initiative/>

Engineering Flowchart



Educational Trip to Mount Everest Base Camp via Kathmandu, Nepal

- Hike Dates Now Set:
April 12 through 28, 2018
- Post hike tour will begin at Kathmandu University to discuss local water and hydrological issues between Apr 29 to May 3
- Water Management practices will be observed and discussed throughout the hike
- Availability is extremely limited

If interested, please contact Dave Gunn

dgunn@geo-environmentaldrilling.com

**with the subject line:
"Everest Base Camp"**



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OGWA 2017 Golf Tournament & Awards Fundraiser Friday, September 29, 2017

- ~ Contests and Prizes ~
- ~ Golf with Cart ~
- ~ 18 Hole Scramble Format ~

*Registration Open: 12:00 Noon

*Shotgun Start: 1:00 pm *Dinner at 6:30 pm

\$155.00 + 13% HST per person = Golf & Dinner

\$ 55.00 + 13% HST per person = Dinner Only

The Ontario Ground Water Association will host its first annual golf tournament to raise funds for annual scholarship awards for graduates of Fleming College's resources drilling and blasting program.

The OGWA's aim is to raise funds that can be held in an interest-earning account to be dispersed each year to the recipients at its annual convention.

"It is important to recognize the academic achievements, year to year, of deserving students and welcome them into the ground water community," said Paul Conrad of the association's board of directors.

WHERE: Elmira Golf Club

40 Eldale Road Elmira, ON N3B 2Z5

Ph: 519-669-1652 / 519-669-1651

www.elmiragolfclub.com

DINNER: Prime Rib & Chicken Cordon Bleu

If you can't attend, you can still help support the industry's next generation by making a donation through the association. Funds earmarked for the scholarship will be set aside for this purpose.

Register online - Questions? Contact us!

www.ogwa.ca

ONTARIO GROUND WATER ASSOCIATION

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Phone: 519-245-7194, Ext 103

E-mail: executivedirector@ogwa.ca

Note: Alcohol not purchased from the golf course is strictly prohibited.



OGWA 2017 Golf Tournament & Student Awards Fundraiser

Date: Friday, September 29, 2017
 Location: Elmira Golf Club, 40 Eldale Road, Elmira, ON N3B 2Z5
www.elmiragolfclub.com Ph: 519-669-1652 / 519-669-1651



Contests and Prizes ~ Golf with Cart ~ 18 Hole Scramble Format

*Registration Open: 12:00 Noon *Shotgun start: 1:00 pm *Dinner at 6:30 pm

Registration:

Company Name: _____

Address: _____

City, Province, & Postal Code: _____

Phone: _____ Email: _____

Golfers:

Name: _____ Name: _____

Name: _____ Name: _____

_____ Golfers x \$155 + 13% HST = \$ _____ # _____ Dinner Only x \$55 + 13% HST = \$ _____

Payment: **Total: \$** _____ ___ MasterCard ___ Visa ___ Cheque

Credit Card #: _____ EXP. Date: _____ 3 digit CCV#: _____

Name on Card: _____ Signature: _____

Register online: www.ogwa.ca Or send payment to OGWA: Fax: 519-245-7196 Email: ogwa@ogwa.ca
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Note: Alcohol not purchased from the golf course is strictly prohibited.

THIS IS CALLED
THE WELL OF THE BLACKWATCH

IN REMEMBRANCE
THAT IT WAS SUNK BY SOME SOLDIERS
OF THE 1ST BATTALION
OF THE 42ND REGIMENT
OF LOYAL HIGHLANDERS
FOR THE SAKE OF THE POOR
AND THEIR CATTLE
IN THE LONG DROUGHT OF
1849



These are pictures from Bermuda of a dug well. Please read the placard about “ducking” closely. I don’t think it is making a comeback!

Submitted by
Darren Juneau, Aardvark Drilling Inc

According to a news clip from Bernews, Bermuda, about this re-enactment of the ducking stool: “A crowd of visitors gathered in St George’s Town Square to witness OBA Member of Parliament Suzanne Roberts-Holshouser strapped into the ducking stool and plunged into the water for the “crime” of “nagging her husband” following a brief “trial”.

<http://bernews.com/2016/04/photos-visitors-gather-for-ducking-stool-trial/>





Peter Campbell McPherson passed away peacefully on October 29th, 2016 after a five month long battle with lung cancer. Peter passed away at the age of 54 with his loving wife, Vicki McPherson, by his side. Together they had two beautiful children, Paige Lee McPherson and Cole Campbell McPherson.

In Memory

Life Story of Peter McPherson

<http://www.reynoldsfuneral.com/book-of-memories/2758496/McPherson-Peter/obituary.php>

Peter was born in Brantford, Ontario, and was the loving son of Lorna McPherson and the late John "Bob" McPherson. Peter enjoyed spending his summers at the family cottage on Three Mile Lake, visiting his late grandparents Jean (McEachren) and Peter McPherson, later deciding to permanently reside in Muskoka.

Peter was son-in-law to Rita Young (Lawrence Brandridge) and brother-in-law to both Debbie McQuain (Don Beeley) and Paula Young (Al Ebrahim).

Peter was a selfless man with a big heart and an unique sense of humour. Peter had a passion for motor racing and enjoyed spending his winters snowmobiling with dear friends and family.

A celebration of life was held on Saturday, November 12th, 2016, at the Raymond Community Hall. As expressions of your sympathy, donations can be made to the cancer society. Messages of condolences can be made at www.reynoldsfuneral.com.

The Board of Directors and staff of the Ontario Ground Water Association offer our deepest condolences to Pete McPherson's family and friends. Sadly, we were not aware of Pete's passing until this summer and our message of sympathy goes out to his colleagues. He will be missed by the ground water industry.

Free Water Well Workshop Held March 8 in Cambray

CAMBRAV, ON – February 27, 2017 – Homeowners, residents and business owners shared an opportunity to hear from and talk with experts during a FREE Water Well Workshop on March 8 at the Fenelon Township Community Centre.

The Managing Your Well During Drought workshop was held from 7 to 9 p.m. at the Fenelon Township Community Centre (Cambray) and covered a number of topics of interest to the local community.

"We heard from a number of concerned residents and business owners about their wells as the region experienced a prolonged period of below average precipitation throughout much of 2016," explained Stewardship Outreach Technician Greg Bunker. As a result they brought together staff and experts to help address questions and provide valuable information in an open forum.

Eades Well Drilling Well Technician Greg Bullock joined Kawartha Conservation Stewardship Coordinator Holly Shipclark for the evening's workshop.

Ms. Shipclark provided an up to date introduction about current watershed conditions and the concerns that have arisen as a result, while Mr. Bullock helped well owners better understand their wells and how to maintain them.

Ward 4 Councillor Andrew Veale said the free workshop would be a great opportunity for local residents to hear about best practices for managing their wells during dry conditions. "This is a great opportunity for area residents that are new to having a well, as well as those who have always had a well, to hear about best practices for managing their wells during periods of low precipitation," Coun. Veale said, prior to the event.

This was a second Water Well Workshop. More than 60 people attended a similar workshop in Blackstock in December. Mr. Bunker explained that a series of workshops in March and April were provided "to further help area residents with the challenges of low water in Blackstock and in Lindsay on water harvesting."

For more information, please contact Greg Bunker at 705-328-2271 Ext. 242 or email gbunker@kawarthaconservation.com.



'WELL WISE' WATER TESTING PROGRAM
ONTARIO GROUND WATER ASSOCIATION

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"If you don't test your water, how do you know what is in it?"

Customer _____ (dd/mm/yyyy)

Name _____ Date _____

Street Address _____ FOB _____ Laboratory _____

City/Municipality _____ Prov ON Postal Code _____

Phone _____ E-mail _____

Mailing Address (If different from above)

Address _____

City/Municipality _____ Prov _____ Postal Code _____

Well Information (Identify if more than one well, eg. 1) house 2) barn , etc.) _____

Well Type(s) _____

Depth of Well(s) _____ Age of Well(s) _____

Additional Notes: _____

No signature required on delivery

List Any Treatment Systems

<input type="checkbox"/> X	<-- X indicates confirmation the samples submitted are not under regulated drinking water requirements.		
# of Tests	Name of Water Test	Unit Price	TOTALS
	Metals, Minerals, and Salts	\$ 138.00	
	Fuels	\$ 188.00	
	Solvents	\$ 115.00	
	Fluoride	\$ 21.00	
	Mercury	\$ 21.00	
	Sulphide	\$ 21.00	
	Tannin/Lignin	\$ 31.00	
	OP Pesticides/Herbicides - Pricing provided on request		
	Glyphosate (Roundup) - Pricing provided on request		
	Additional Fees (Required)		
	Administration (insert 1 as fee for single well; insert # for multiple wells)	\$ 55.00	
	Shipping / Courier (test bottles & supplies will be shipped in one container)	\$ 30.00	
		SubTotal	
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Ontario Ground Water Association: "Dedicated to protecting and promoting our most precious resource"
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As always the members see to a successful bounty in the Silent Auction



Everyone is attentive to the handouts, the devil is always in the details



The mingling continues



And the clan gathers



Adrian Van Mourik, Rob MacKinnon, Andrew Caine, Jamie MacKinnon and Diana Van Mourik Knights of the Round Table



A formidable trio, Anne, Debbie & Craig, The OGWA office



The Contractors gather for their divisional meeting



Joel Gagnon from University of Windsor brought greetings and an offer to host the new Canadian National Ground Water Association



Faithful OGWA members & volunteers, Kyle Smith, Doug Kershaw, Johnny Wilson, Sharron Kershaw & Dwayne Grant. Kyle & Dwayne sit on the OGWA Board

Can you blame Darren for retiring? It's no contest Jessica and he are busy parents

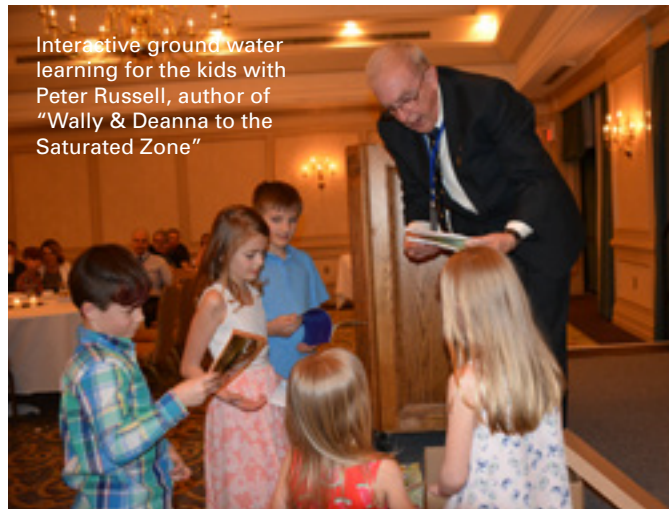


OGWA 2017 Convention & AGM

Jim Smith, Fleming College
Speaking at the AGM



Interactive ground water
learning for the kids with
Peter Russell, author of
"Wally & Deanna to the
Saturated Zone"



Bruce Hietkamp,
OGWA Director
Speaking at the AGM



Always nice to see Deborah Wright & Jamie
MacKinnon at the President's Banquet.



Our long time member & former Board
member Bill Clarke presents Peter Russell
with the Earth, Wind, Fire & Water Award



The last AGM under Darren's
Presidency and therefore a
good bye from him





Busy men – OGWA Board Members present – Matthew Wilson, 1st Vice Pres; Bryan Watson, President, Bruce Hietkamp, S&E Rep; Mike Hare, M&S Rep; Dwayne Graff, 2nd Vice Pres; Rob Martini, M&S Rep; Stephen Bleizeffer, M&S Rep; Kyle Smith, Contractor Rep



The Manufacturers & Suppliers (M&S) meeting gets underway



There is lots to catch up on in a year



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Vermont residents react to new water pollution law

Posted: Jun 03, 2017; Updated: Jun 04, 2017
by Taylor Young

NORTH BENNINGTON, Vt. - It's been about a year and a half since Bennington residents were told to stop drinking their drinking water.

Saint-Gobain, a plastics company in North Bennington, allegedly contaminated groundwater with PFOA, a chemical that has been linked to causing cancer.

Friday, Gov. Phil Scott (R-Vermont) signed a bill that would hold any company found responsible for polluting groundwater liable for the costs.

The houses located off of Asa's Way are about 500 yards from the plant. The wells are highly contaminated with PFOA.

"My wife and I, we have levels as high as the workers at the Chem Fab factory," said Sandy Sumner of North Bennington.

WCAX spoke with Sandy Sumner back in January. He says he has developed multiple health issues, possibly linked to consuming water with high levels of PFOA.

Sumner says it's about time the state has stepped forward to help. "I think it's a move in the right direction," said Sumner.

"I think the bill is a good bill. It is a good law, but it just doesn't benefit us," said Andy Beckerman, also of North Bennington.

Beckerman also lives off of Asa's Way and he has been drinking contaminated water for more than 15 years.

He questions if the bill will hold Saint-Gobain accountable for something they did nearly two decades ago.

Sen. Dick Sears Jr. (D-Bennington) says it will.

"Because of the retroactivity of the bill, it holds whoever is the responsible party liable to provide clean drinking water," said Sears. Sen. Sears says the company would be held accountable to supply municipal water to residents in Bennington and North Bennington. He says that cost would be between \$33 and \$35 million.

"Shortly we may be ready to begin construction of extending the water lines," said Sears.

The state is negotiating with Saint-Gobain to reach a settlement.



<http://www.wcax.com/story/35582911/residents-react-to-new-water-pollution-law>



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Kevin Wong Recipient of 2017 Archie Watt - Industry Sector Award



April 28th 2017 – Kevin Wong, was presented with the 15th Archie Watt - Industry Sector Award at the annual Ontario Ground Water Association Meetings in Alliston, ON, on April 8th 2017.

The award is in recognition of Mr. Wong's contributions for his ongoing work in sustaining ground water resources. This award is presented by the Ontario Ground Water Association (OGWA) for excellence in sustaining ground water resources. A keeper plaque is presented to the industry recipient & the large trophy is on permanent display at Fleming College.

In presenting the award, OGWA Executive Director, Mr. Craig Stainton noted that the honour has traditionally been bestowed to active members of the industry from the drilling side those who would have been the first to feel the influence of Archie Watt after WWII and in the early 1950's. In that Archie's legacy was legislation, recording and reporting of the Province's ground water assets as well as setting standards in well drilling and reporting areas, the OGWA felt that naming Mr. Wong to this role this year was appropriate. In recognition of his hard work over the years in water regulation and standards he joins a list of like minded individuals.

Mr. Wong has been an involved part of the professional development, regulations development, and standards development community, participating on several committees, task groups, and industry advisory bodies over the years. He has been the key voice of the Canadian Water Quality Association within the plumbing and water resources community in both the US and Canada.

In his comments, Kevin noted that the award was the result of the dedication of many in the room that he has had the honour of working and mentoring with over

the last two decades. "Archie's legacy lives in all of us, so it is up to us to fulfill it... This room is filled with lots of people who do a lot to protect groundwater. That work, is more important now more than ever."

Archie Watt Award - Industry Sector – This award is presented by the Ontario Ground Water Association (OGWA) for excellence in sustaining ground water resources. A keeper plaque is presented to the industry recipient & large trophy is displayed at Fleming College.

About Archie Watt (condensed version):

Archie Watt was an instrumental figure in the history and development of the ground water industry in Ontario. In 1940, he graduated from the University of Toronto with an honours degree in Geology and Mineralogy. Following the war, he started conducting his first well surveys. He developed Ontario's first water well record form, wrote the first Ground Water Report, and the initial Water Well Drillers Act in 1947. He was responsible for establishing the Groundwater Branch in the Ontario Water Resources Commission in the 1950's. In 2004, Archie Watt was honored by his peers in the ground water industry as the "grandfather of hydrogeology in Ontario" with a bursary established in his name at Sir Sanford Fleming College by the Ontario Ground Water Association.

About Archie Watt:

In his 98th year, Archibald Keith Watt died at his residence at Amica at Erin Mills on Monday, July 12, 2010. A graduate of the Toronto Normal School in 1932, he taught public school before attending University of Toronto, graduating from

Victoria College in Toronto in 1940 with an honours degree in Geology and Mineralogy. Following graduation, he worked for the Ontario Department of Mines, then taught navigation with the RCAF from 1942-44. Returning to the Department of Mines he worked on ground water and Pleistocene geology surveys and as a water well inspector. In 1957 he joined the newly formed Ontario Water Resources Commission as supervisor of ground water, later becoming Director of the Water Resource Division and an Assistant General Manager of the OWRC. He was Executive Director of the Division of Water Resources when the Ministry of the Environment was formed in 1972, and served on the Great Lakes Water Quality Advisory Board of the International Joint Commission 1972-1973, when he retired. He headed the Mercury Task Force for Ontario in its litigation with Dow Chemical and was also a Special Lecturer in glacial geology and ground water at U of Toronto. He was a fellow of the Geological Association of Canada, the Geological Society of America, and the American Association for the Advancement of Science, and a member of several other professional and scientific organizations. An avid fisherman, curler, and gardener, he was a member of the Civil Service Curling Club and proud member of teams that won the Seagram and Birk's trophies in competitions in the 1960s. Archie is remembered by friends and family as a dedicated and devoted public servant with an extensive knowledge of the geology of Ontario, a man who exhibited technical competence, sound judgment, grace and good humour, and a man who above all deeply loved his family. He wrote the first Ground Water Report for the province in 1947 and the Initial Water Well Drillers Act. Honoured in 2004 by his peers in the ground water industry as the 'grandfather of hydrogeology in Ontario', a bursary was established in his name at Sir Sanford Fleming College by the Ontario Ground Water Association.



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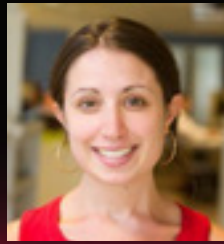
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News Feature | March 13, 2017

Stuck Valve Turns Town's Water Hot Pink

By Sara Jerome @sarmje

Residents of a small Canadian town awoke to an unpleasant surprise this week: hot pink tap water.

A Facebook group posted this photo of the water, with a bit of advice for its readers: Don't drink it.

Officials noted that the problem never presented a public health risk. And "health officials recommended residents run their taps until the water is clear before using," CBS News reported.

The mayor of Onoway, Alberta, apologized to residents over the incident. He said it appears that a valve may have malfunctioned, allowing potassium permanganate "to get into our sump reservoir and thereby into the town's water distribution system," according to a statement.

Officials from the province are headed to Onoway to investigate the incident. The water system responded to the issue by flushing the system

"Unfortunately, our distribution system is a loop system which makes it much more

difficult to control and isolate the water flow," the mayor's statement said.

A hot topic in the community is whether the town did enough to communicate about the incident. The mayor addressed that issue with an apology.

"Could the Town have done a better job of communicating what was going on yesterday to our community — absolutely, without a doubt. And we do apologize for that. This is a situation we can certainly learn from and develop a strategy for better response and communication should we ever face the same or similar situation in the future," he said.

One upside is that it appears the water system has support from its ratepayers.

"At this time, I would like to recognize and thank those who have stopped in or called inquiring about the facts, and I would specifically like to thank those businesses who have dropped off lunch and treats for our staff," the mayor wrote.

Potassium permanganate, the suspected culprit in Otoway, is usually added to treatment processes at the raw water intake, according to the U.S. EPA's water treatability database. It is generally followed by conventional treatment or granular activated carbon, membrane filtration, and chlorine disinfection. Per the database:

Permanganate is a strong oxidant used primarily to control taste and odors, remove color, control biological growth in treatment plants, control zebra mussels in intake structures and pipelines, and remove iron and manganese. Permanganate can also be used for controlling the formation of trihalomethanes and other disinfection byproducts by oxidizing precursors and reducing the demand for other disinfectants. Permanganate has also shown to lower coagulant dose requirements and improve clarification.



Ministry of the Environment and Climate Change - Court Bulletins

Construction Company fined \$ 220,000 for Ontario Water Resources Act Violations - July 21, 2017

Ottawa - Thomas Cavanagh Construction Limited (TCCL) was fined \$220,000 on July 21, 2017 for four offences under the Ontario Water Resources Act (OWRA). TCCL had been found guilty of these offences on June 9, 2017, which were related to discharging materials into a watercourse and failing to notify the ministry contrary to the OWRA.

Thomas Cavanagh Construction Limited (TCCL) is a construction and quarrying company that operates from an office on Cavanagh Rd. in Ashton.

On January 2, 2013, TCCL was hired to install the stormwater infrastructure at the Blackstone community, in accordance with an approved design plan. The work commenced at the end of January 2013.

The Blackstone community site is located on a former agricultural site located in South Kanata, Ottawa close to the intersection of Terry Fox Dr. and Fernbank Rd.

In close proximity to the site is the Monahan Drain, which is an agricultural drainage works that flows into the Jock River and has a catchment area that supports a warm water fish habitat. The headwaters of the Drain are located at the Blackstone community.

Prior to construction of the stormwater infrastructure, a number of approvals had been obtained, including ministry approvals for the construction of the stormwater management facility identified as West Park Pond 6, alterations to the Monahan Drain, a Permit to Take Water (PTTW) for construction dewatering, and permission from Rideau Valley Conservation Authority (RVCA) to permit the alteration of a waterway.

On June 11, 2013, a RVCA Inspector conducted an inspection of the construction activities at the Blackstone community and observed excessive sediment discharge to the Drain. It was also noted that sediment and erosion control measures were ineffective, that the measures had not been properly maintained, and were inconsistent

with the approved plan. On that date, the RVCA Inspector revoked the RVCA permit, and referred the matter to the ministry.

On June 13, 2013, ministry staff and the RVCA Inspector conducted a second inspection of the site and noted that although there had been some improvements made from two days prior, some of the control measures were still ineffective and not in line with the approved sediment and erosion control measures plan.

TCCL had assumed responsibility by contract for controlling the discharge of sediments and reporting any discharges. However, the ministry received no report from TCCL regarding the discharges that were observed on either dates.

Subsequently, the matter was referred to the Investigations and Enforcement Branch. Following an investigation, the defendant was charged.

On June 9, 2017, Thomas Cavanagh Construction Limited was convicted. The company was convicted of four offences, and on July 21, 2017 was fined \$220,000 plus a victim fine surcharge of \$55,000 and was given 3 months to pay.

Golf Course fined \$6,000 for Water Resources Act Violations - June 22, 2017

London - Caradoc Sands Golf Course Ltd. pleaded guilty to one offence and was fined \$6,000 for taking greater than 50,000 litres of water per day without a Permit to Take Water (PTTW), contrary to the Ontario Water Resources Act.

The company operates a golf course located on Saxton Road in Strathroy.

The company was issued a PTTW in 2001 to regulate water taking from an on-site irrigation system, which expired on April 15, 2006 and was never renewed.

On September 15, 2015, ministry staff inspected the site and confirmed that the company had been taking water in excess of 50,000 litres per day for an extended period of time.

Subsequently, the matter was referred to the Ministry's Investigation and Enforcement Branch. Following an investigation, the defendant was charged and convicted.

On May 29, 2017, Caradoc Sands Golf Course Ltd. was convicted of one offence, was fined \$6,000 plus a victim fine surcharge of \$1,500 and was given one year to pay the fine.

The Kinsmen Club fined \$2,000 for Safe Drinking Water Act Violations - June 22, 2017

Stratford - The Kinsmen Club of Stratford Incorporated pleaded guilty to one offence and was fined \$2,000 for failing to ensure that no drinking water was supplied after a shutdown period of seven or more consecutive days until samples were taken and tested, contrary to the Safe Drinking Water Act (SDWA).

The Kinsmen Club is located at a property on 31st Line, Embro, Township of Zorra, County of Oxford.

At the site, the Kinsmen Club operates a camp called Kamp Tanner, and also rents out campgrounds to groups throughout the year. Between early January and April 21, 2015, the drinking water system was shut down at the camp.

On July 5, 2015, the camp became operational and water was supplied to various locations within the camp. However, the Kinsmen Club had not collected distribution samples for testing until July 14, 2015, and the result of the test were not received until July 16, 2015.

Subsequently, the matter was referred to the ministry's Investigation and Enforcement Branch. Following an investigation, the defendant was charged.

On June 1, 2017, The Kinsmen Club of Stratford Incorporated was convicted of one offence, was fined \$2,000 plus a victim fine surcharge of \$500 and was given 90 days to pay the fine.

Construction Companies and an Individual fined \$95,000 for Waste Disposal Violations - June 21, 2017

Ottawa - SNC-Lavalin Constructors (Pacific) Inc., Dragados Canada Inc., and EllisDon Corporation pleaded guilty to one offence each and were each fined \$30,000 for being a generator of liquid industrial waste, permitting the waste to leave its control by a non-approved waste transportation contractor, and failing to complete a waste manifest, contrary to the Environmental Protection Act (EPA).

Richard Ernest Rump pleaded guilty to one offence and was fined \$5,000 for arranging or permitting the deposit of the waste upon land that is not a waste disposal site, contrary to the EPA.

Through a joint venture called OLRT Constructors (OLRT), SNC-Lavalin Constructors (Pacific) Inc., Dragados

Canada Inc., and EllisDon Corporation were contracted to build Ottawa's Confederation Line light rail transit project. Construction of the line began in 2013 and required approximately 2.5 kilometres of tunneling.

The tunneling operation involves cutting rock using machines lubricated by water and produces a watery slurry waste. The slurry is classified as a liquid industrial waste, which must be removed and disposed of in accordance with regulatory requirements.

In early January 2015, OLRT hired a contractor to dispose of the slurry waste. The contractor did not hold an ECA to haul the waste as required.

The contractor hauled 13 loads of the slurry from March 4, 2015 to March 12, 2015 and disposed all at a dugout area at a property on Howie Rd., in Ottawa. The site was licensed under the Aggregate Resources Act for aggregate extraction but was not an approved waste disposal site.

The OLRT was the generator of the waste, and did not complete waste manifests for the thirteen shipments.

At the time of the violations the aggregate pit was leased to Richard Earnest Rump who

had contracted with the haulage company to allow the waste to be deposited at the pit despite the fact that the pit was not an approved waste disposal site.

The illegal disposal of liquid industrial waste at the pit was discovered as a result of an anonymous call to the ministry on March 12, 2015.

Shipments of the slurry to the pit were immediately terminated by OLRT and OLRT Constructors conducted a cleanup of the material that had been disposed of at the pit and arranged for proper disposal of the slurry in compliance with the EPA.

Subsequently, the matter was referred to the ministry's Investigations and Enforcement Branch. Following an investigation, the defendants were charged.

On June 21, 2017, SNC-Lavalin Constructors (Pacific) Inc., Dragados Canada Inc., and EllisDon Corporation were convicted of one offence each. Each of the companies were fined \$30,000 plus a victim fine surcharge of \$7,500 and were given 90 days to pay. Richard Ernest Rump was convicted and was fined \$5,000 plus a victim fine surcharge of \$1,250 and was given one year to pay.

Excavation Company fined \$50,000 for Ontario Water Resources Act (OWRA) Violations - June 16, 2017

Woodstock - J-AAR Excavating pleaded guilty to one charge and was fined \$50,000 for discharging sediment into a municipal storm sewer, which proceeded to enter Whiting Creek and impaired the waters, contrary to the Ontario Water Resources Act (OWRA).

J-AAR Excavating Limited is a corporation located in London.

In August 2013, the company was hired to complete a public works project involving the installation of a sanitary sewer, watermain and storm sewer on Holcroft St. W. in Ingersoll.

The project required site excavation and dewatering to facilitate the subsurface installation of structural components of the sewers and watermain.

Holcroft St. W. crosses a tributary of the South Thames River named Whiting Creek at a point just northeast of the site. On or about June 10, 2014, the company during project works pumped water containing sediment out of the construction

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excavation area, discharged it into a municipal storm sewer that drains into Whiting Creek and impaired the water in the creek.

Following a complaint from a member of the public, the matter was referred to the Ministry's Investigations and Enforcement Branch. Following an investigation, the defendant was charged and convicted in court.

On June 15, 2017, J-AAR Excavating Limited was convicted of one offence, was fined \$50,000 plus a victim fine surcharge of \$12,500 and was given 60 days to pay the fine.

Recycling Company fined \$67,500 for Failing to Comply with a Ministry Approval and Order - June 15, 2017

Windsor - 2003908 Ontario Inc., operating as o/a Recycle City pleaded guilty to seven offences and was fined \$67,500 for failing to comply with the terms and conditions of a ministry approval and failing to comply with a ministry Order, contrary to the Environmental Protection Act (EPA).

2003908 Ontario Inc. owned/operated a waste disposal site under ministry approval, at a property located on Tecumseh Road W. in Windsor.

Under the ministry approval, the company was permitted to accept all types of industrial, commercial, demolition, household, tires and electronic waste, but it was not permitted to accept hazardous waste.

Between June and September, 2015, the ministry attended the site on twelve occasions and observed a number of violations of the ministry approval relative to waste volume exceedances, outdoor waste storage time-limits, and hazardous waste storage.

On June 29, 2015, a ministry Order was issued to the company, containing eleven items to be complied with. The company failed to meet some of the requirements including submitting an annual report along with other reports, providing waste shipment refusal documentation and a Spill Contingency and Emergency Response Plan.

Subsequently, the matter was referred to the Ministry's Investigations and Enforcement Branch. Following an investigation, the defendants were charged.

On June 15, 2017, 2003908 Ontario Inc o/a Recycle City was convicted of seven offences and was fined \$67,500 plus a

victim fine surcharge of \$16,875 and was given two years to pay.

Fuel Company Fined \$40,000 for Environmental Protection Act (EPA) Violations - June 14, 2017

Windsor - Sterling Fuels Limited pleaded guilty to one offence and was fined \$40,000 for discharging a contaminant, namely Bunker "C" Oil, into the natural environment that may have caused an adverse effect, contrary to the Environmental Protection Act (EPA).

Sterling Fuels operates from a leased facility on Russell St. in Windsor. The lease holder of the property is the Windsor Port Authority. Sterling is in the business of providing lubricating and hydraulic oils, greases, fuels, and fluids to industrial, farming, and contracting clients.

On October 5, 2014, the Harbour Master was contacted by an employee of Sterling regarding a spill of Bunker "C" Oil from one of the discharge lines located along Russell Street. The oil had spilled onto the public right of way.

The Harbour Master contacted the ministry to notify them of the spill.

On October 6, 2014, an environmental clean-up company attended Sterling with a vacuum truck and removed approximately 900 litres of water and oil from the site.

Subsequently, the matter was referred to the Ministry's Investigations and Enforcement Branch. Following an investigation, the defendant was charged.

On June 14, 2017, Sterling Fuels Limited was convicted of one offence, was fined \$40,000 plus a victim fine surcharge of \$10,000 and was given six months to pay the fine.

Cheese Manufacturer fined \$13,000 for Ontario Water Resource Act Violations - June 2, 2017

Barrie - Silani Sweet Cheese Limited pleaded guilty to one offence and was fined \$13,000 for failing to ensure that every Operator holds a license applicable to that type of wastewater treatment facility, contrary to the Ontario Water Resources Act (OWRA). Silani Sweet Cheese Limited is a registered corporation which operates a cheese manufacturing facility in Bradford, West Gwillimbury.

Wastewater generated at the site from the cheese manufacturing process is treated on-site in an industrial wastewater treatment facility.

On February 25, 2015, ministry staff conducted a proactive inspection of the facility and identified that two Silani employees who are not Licensed Operators, conducted inspections, recorded readings and made adjustments to the facility during times when the Licensed Operator was not present on-site.

Subsequently, the matter was referred to the ministry's Investigation and Enforcement Branch. Following an investigation, the defendant was charged.

On June 2, 2017, Silani Sweet Cheese Limited was convicted of one offence, was fined \$13,000 plus a victim fine surcharge of \$3,250 and was given twelve months to pay the fine.

Golf Course fined \$8,000 for Failing to cleanup an illegal waste site - May 17, 2017

Sault Ste. Marie - Crimson Ridge Golf Inc. pleaded guilty to one offence and was fined \$8,000 for failing to comply with a ministry order requiring it to remediate an improper waste disposal site set up without a ministry approval, contrary to the Environmental Protection Act (EPA).

Crimson Ridge Golf Inc. (the company) operates a golf course and clubhouse in Sault Ste. Marie.

Regular maintenance of the golf course results in the production of waste. On June 16, 2014, ministry staff inspected the golf course following an anonymous complaint of a waste site having been established.

The inspection confirmed the existence of an excavated pit and the accumulation of mixed wastes including old pails, tires, cardboard, plastic and an empty pesticide container containing residue of restricted pesticide products.

A ministry order was issued requiring the waste to be removed by July 31, 2014. The company failed to comply with the order. Subsequently, the matter was referred to the ministry's Investigations and Enforcement Branch. Following an investigation charges were laid.

On May 17, 2017, Crimson Ridge Golf Inc. was convicted of one offence, was fined \$8,000 plus a victim fine surcharge of \$2,000 and was given twenty-four months to pay the fine.

Solar Farm Sub Contractor fined \$600,000 for Discharging Sediment to and Impairing Water Quality in Adjacent Streams - May 15, 2017

Cobourg - 2280577 Ontario Inc. (formerly Naylor Renewable Energy Inc.) pleaded guilty to three offences and was fined \$600,000 for causing or permitting the discharge of sediment-laden stormwater and impairing the quality of the water, failing to notify the ministry of the discharge, and failing to employ best management practices for stormwater management, sediment and erosion control as required by the ministry approval, contrary to the Ontario Water Resources Act (OWRA) and the Environmental Protection Act (EPA).

In May 2012, the ministry issued a Renewable Energy Approval (REA) authorizing the construction of a 10 megawatt solar farm known as the Hamilton Solar Facility (HSF) located in Hamilton Township.

As a result of contractual arrangements between the REA holder and various companies, 2280577 Ontario Inc. assumed the primary responsibility to implement and monitor the measures as stipulated in the stormwater management, erosion and sediment control plan, as required by the REA.

Construction of the HSF site began in 2013 and continued beyond 2014.

In late March 2014, ministry staff responded to a complaint by inspecting the HSF site. Ministry staff observed that the erosion and sediment control measures were inadequate.

2280577 Ontario Inc. was advised that stormwater and erosion controls must be enhanced, a sediment control inspection program must be established and implemented, and that any spills or discharges must be reported to the ministry. On April 2, 2014, in response to a further complaint and to determine whether mitigation measures had been successfully implemented, ministry staff conducted another inspection at the HSF site. At that time, ministry staff observed inadequate or improperly maintained erosion and sediment control measures that permitted the discharge of sediment-laden water to nearby streams.

Ministry staff observed that snow melt flow was discharging silt-laden water directly into a tributary of Brook Creek and across a farmer's field to a culvert that connects to the tributary of Baltimore Creek.

Further inspections on April 29, 2014 and June 11, 2014 observed turbid, silt-laden water again being discharged from the HSF site into the two tributaries, with water samples indicating that the concentration of suspended solids were greatly elevated at the site and downstream.

Based on the information collected during these inspections, a ministry Surface Water Scientist concluded that the discharges of sediment-laden water from the HSF site caused the impairment of the headwaters of both creek tributaries a distance of approximately 2 km in Brook Creek Tributary and approximately 4 km in the Tributary of Baltimore Creek.

The ministry investigation determined that the erosion and sediment control measures installed by the company were insufficient or inadequate to prevent the discharges from occurring.

It was also determined that the discharge that occurred April 2, 2014 was not reported by 2280577 Ontario Inc. to the ministry's Spills Action Centre (SAC), as required by the Act.

In addition, the investigation concluded that 2280577 Ontario Inc. did not comply with the Construction Plan Report submitted in support of the REA application, and that best management practices for stormwater management, sediment and erosion control were not employed, which contravened the ministry approval.

On May 15, 2017, 2280577 Ontario Inc. was convicted of three offences, was fined \$600,000 plus a victim fine surcharge of \$150,000 and was given 30 days to pay the fine.

The Corporation of Tay Valley Township fined \$15,000 for Environmental Protection Act Violations - May 4, 2017

Perth - The Corporation of Tay Valley Township pleaded guilty to two offences and was fined \$15,000 for failing to comply with conditions in a ministry approval by failing to minimize impact from litter and failing to conduct inspections of the site, contrary to the Environmental Protection Act (EPA).

The Corporation of Tay Valley Township (the Township) is located in Lanark County, west of the Town of Perth.

The Township owns and operates a ministry approved landfill, which receives, processes, transfers and disposes of municipal non-hazardous waste.

The ministry approval requires that the landfill is operated and maintained in a manner that minimizes the impacts from litter and that a daily inspection is conducted to ensure that the landfill is not causing any nuisance impacts.

On April 16, 2015, in response to a complaint, ministry staff conducted an inspection and observed excessive amounts of waste that had blown off the landfill and along adjacent municipal roadways.

On April 21, 2015, ministry staff conducted a second inspection and again observed similar conditions of excessive amounts of exposed waste and litter on and adjacent to the landfill.

Daily logs for the landfill were obtained through a subsequent investigation and indicated that no inspections were conducted in April and May of 2015 to ensure that no nuisance impacts were occurring.

The matter was referred to the Ministry's Investigations and Enforcement Branch and following an investigation charges were laid.

On April 18, 2017, The Corporation of Tay Valley Township was convicted of two offences, was fined \$15,000 plus a victim fine surcharge of \$3,750 and was given 60 days to pay the fine.

Brantford Individual fined \$3,000 for Nutrient Management Act Violations - May 4, 2017

Orillia - Hank Van Veen pleaded guilty to one offence and was fined \$3,000 for failing to comply with a condition of a Prescribed Materials Application Business License by permitting an unlicensed person to apply Non-Agricultural Source Material (NASM) at an agricultural operation, contrary to the Nutrient Management Act. Mr. Hank Van Veen held a Prescribed Materials Application Business (PMAB) Licence.

Under conditions of the PMAB, Mr. Van Veen could only permit licensed Nutrient Application Technicians to apply prescribed materials at agricultural operations that are subject to the requirements to have a Non-Agricultural Source Materials Plan (NASM). An agricultural operation located on Concession Road 10, RR #3 in Brechin is subject to the requirement of having a NASM Plan for the land application of sewage biosolids to the site.

On May 15, 2015, ministry staff attended the site to conduct an inspection and

observed an individual driving a tractor while applying sewage biosolids to land, operating under Mr. Van Veen's PMAB licence.

Ministry staff requested to see the individual's Nutrient Application Technician Licence (NATL). The individual told ministry staff that he did not have a NATL.

Mr. Van Veen permitted an unlicensed person to apply prescribed materials at an agricultural operation that is subject to the requirement to have a NASM Plan.

The matter was referred to the Ministry's Investigations and Enforcement Branch and following an investigation charges were laid. On April 12, 2017, Hank Van Veen was convicted of one offence, was fined \$3,000 plus a victim fine surcharge of \$750 and was given 6 months to pay the fine.

Scrap Metal Company fined \$35,000 for OWRA and EPA Violations - April 28, 2017

St. Catharines - 1481410 Ontario Ltd. pleaded guilty to one offence under the Ontario Water Resources Act (OWRA) and two offences under the Environmental Protection Act (EPA) and was fined \$35,000. The convictions relate to using an oil water separator without an approval, discharging waste oil into the natural environment which caused an adverse effect, and failing to ensure subject waste was stored so as to prevent leaks or spills.

1481410 Ontario Ltd. is a registered corporation, operating as SL Marketing, which carries on a recycling and scrap metal business at a rented property in Welland.

The site contains an oil water separator that was installed on the site prior to the company renting the property.

The installation and operation of an oil water separator and discharge of the treated sewage must be done in accordance with an Environmental Compliance Approval (ECA) issued by the ministry.

After the company began operating at the site, it retained a consultant to prepare an application to obtain an ECA for the oil-water separator. However, the ECA application had not been submitted as of the date of the offence.

From June 30, 2015 to July 13, 2015 the company operated an oil water separator and discharged treated and untreated storm water to the natural environment without an ECA.

In late June 2015, during a significant rainfall event, waste oil stored on site was

discharged to surface water downstream, which was witnessed and reported to the ministry.

Ministry staff responded and identified the presence of petroleum hydrocarbons in a drainage ditch downstream from the site, which were traced back to the stormwater discharge from the site.

On July 2, 2015, an uncovered aluminum truck trailer used to store waste oil filters, containing residual waste oil and barrels under the trailer were seen to be leaking. Thus the company failed to store subject waste in a manner so as to prevent leaks or spills.

On April 28, 2017, 1481410 Ontario Ltd. was convicted of three offences, was fined \$35,000 plus a victim fine surcharge of \$8,750 and was given eight months to pay the fine.

Trailer Park Business fined \$4,000 for Ontario Water Resource Act (OWRA) Violations - April 28, 2017.

Lindsay - 1347921 Ontario Inc., owner and operator of Stoney Creek Trailer Park in Kawartha Lakes, pleaded guilty to one offence and was fined \$4,000 for failing to comply with a ministry order by failing to submit an application for an Environmental Compliance Approval (ECA), contrary to the Ontario Water Resources Act (OWRA).

The trailer park consists of 33 year round mobile homes and one apartment building, all of which are serviced by 28 on-site septic tile beds.

In November 2002, ministry staff inspected the trailer park in response to public complaints about a failing septic

system, and identified two of the 25 septic beds to be leaking to the surface.

Numerous ministry Orders were issued and consultants were hired to assess the problems and produce recommendations. In February 2006, an Environmental Compliance Approval was issued to the company authorizing it to proceed with work to install new pumps and sewer lines. On June 2, 2014, ministry staff inspected the trailer park and noted that none of the work that was required had been carried out. As a result, another ministry Order was issued with a requirement to submit an action plan to address the ongoing problems and to submit another Environmental Compliance Approval application.

The Environmental Compliance Approval application was prepared by an environmental / engineering Consultant by May 2014, but it was not submitted because the Consulting Company was not paid for their work.

Subsequently, the matter was referred to the ministry's Investigation and Enforcement Branch. Following an investigation, the defendant was charged.

On April 28, 2017, 1347921 Ontario Inc. was convicted of one offence, was fined \$4,000 plus a victim fine surcharge of \$1,000 and was given six months to pay the fine.

Media Contacts

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416-314-6666

Contact information for the general public

416-325-4000 or 1-800-565-4923

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New record for winter enrolment

Fleming College kicked off 2017 with record winter enrolment.

Over 100 students enrolled in the winter semester at Fleming College, the highest in the college's history. The enrolment was a record for the college, with over 100 students enrolling in the winter semester. This is a significant increase from the previous year, where only 80 students enrolled. The college's success is attributed to its excellent academic programs and dedicated faculty members. The college is proud to have achieved this milestone and looks forward to a successful year ahead.

ALUMNI ADVISORY COUNCIL

Your former school advisory council, the Alumni Advisory Council, is back. The council is a group of former students who provide feedback and support to the college. They meet regularly to discuss various issues and provide input on college programs and services. The council is an important part of the college's governance and helps ensure that the college remains relevant and responsive to the needs of its students and the community.

Heron Instruments donate groundwater equipment

Heron Instruments has donated a large amount of groundwater equipment to Fleming College. The equipment includes conductivity meters, pumps, and other testing devices. This donation is a significant contribution to the college's resources and will help support its educational programs. The college is grateful for Heron Instruments' generosity and commitment to supporting education in the water industry.



Heron Instruments was fortunate to be featured in the FLEMING TIES Spring 2017 edition. We are dedicated to supporting educational institutions by participating in their undergraduates, Co-op and Internship programs. Heron Instruments will continue to do our part to shape the minds of new well technicians, product designers, programmers and machinists.

Business for Sale



Well established pump installation & water treatment business in south western Ontario. This business has been operating for over 50 years. The company has earned an excellent reputation for being expedient, reliable and is known for its prompt response time.

The competition is limited in our area and we have a very loyal customer base.

Included in the price: inventory, tools, equipment, service vehicles, and client list & office equipment

Price \$125,000.00

For further information please email: pumps0123@gmail.com

New Products & Services



Heron Instruments would like to **welcome David Mackie** to our Research and Product Development team! David joined us in 2015 for a one year internship before returning to Carlton University to complete his degree in Industrial Design. His new found interest in the water sector led to focusing his major thesis project on providing clean water for under-developed rural communities. Now having graduated, he has joined us full-time. David's education brings not only an expertise in materials and manufacturing, but also a background in ergonomics, user interaction, colour theory and product psychology. He is excited to bring advanced, innovative ideas to Heron Instruments newest developments, while maintaining or improving the robust and reliable products that Heron already manufactures.



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Équipements Inc.

➤ Announcement

is proud to announce that **Jean-Bernard Drouin** has joined the company and is now the Service Field Technician.

For all your Schramm rig parts and service, you can call him directly at:

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NEW PRODUCT ADVERTISEMENT ANNOUNCEMENT OPPORTUNITY

Advertisers with half page or larger at 3x per year are welcome at no extra cost to supply "new product or service" promotion (one per issue). Size to be no more than 1/8 ad size (2.25" x 3.5" only) or for text announcements, 150 words or less including 1 photo or logo.

Heron Instruments is at it



We have just finished fine-tuning our water level meter family making them ideal to tackle every project and meet every budget. Not only did we expand and improve the quality of our water monitoring instruments, we also maintained our competitive pricing!

To complement our premium four function **dipper-T**, our **SKINNY DIPPER** and our robust and strong **dipper-Tough**, we have added our **NEW** compact **little dipper2**, the dual function **dipper-T2** and the **NOW** dual function **water tape2** to the water level team. To protect your investment, a carry case is always included.



info@heroninstruments.com

BUYER'S GUIDE

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<i>Canadian Pipe & Pump Supply Ltd.</i>	<i>page 28</i>	<i>Lackner McLennan</i>	<i>page 27</i>
<i>Fleming College</i>	<i>Page 21</i>	<i>M. Beaugregard Équipements Inc.</i>	<i>page 20 and 33</i>
<i>Franklin Electric</i>	<i>page 5 & 33</i>	<i>N & N Drilling Supply Manufacturer</i>	<i>page 8</i>
<i>Gefco</i>	<i>page 31</i>	<i>Pentair</i>	<i>page 35</i>
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ONTARIO GROUND WATER ASSOCIATION
2017 STUDENT MEMBERSHIP APPLICATION - FREE
 RENEWABLE TWICE PER YEAR with PROOF of STUDENT STATUS:

Fall 2017: June 15, 2017

Winter 2018: December 15, 2017

NEW MEMBERSHIP DO NOT list my name on the OGWA website.
 (Listing = University/College/School Name, Contact Name, Address, City, Province, Postal Code, Phone &/or Cell Number)
 E-mail addresses will be listed unless OGWA is notified otherwise.

MEMBERSHIP RENEWAL: *Fill in only information that has changed. Send a copy of your current proof of student status.*

Check to indicate you understand that under Canadian Anti-Spam Legislation, you agree to allow OGWA to send general email news, bulletins, and event notices in addition to standard communication regarding your membership or invoicing.

University/College Name: _____

Contact Name: _____

Address: _____

City: _____ Prov: _____ Postal Code: _____

Phone/Ext: _____ Cell: _____ Alternative Phone: _____

E-mail: _____

If you have a Website, blog, etc., and wish to have it posted: _____

****MANDATORY: Proof of Student status must be submitted for new membership and for renewals.**
 I have included proof that I am currently enrolled as a student.

New Membership & Renewal Instructions

Whether you are a new or renewing member of the OGWA it is most important that you take the time to fill out the Membership Application **completely**. The information you provide is for your benefit and to ensure you receive news and event information.
Please contact the OGWA (519) 245-7194: Anne at ext 101 or Craig at ext 103 with any questions.

✓	<u>MEMBERSHIP CATEGORY</u>	FREE MEMBERSHIP	
	Student – Fall Semester 2017	No Charge	
	Student – Winter Semester 2018	No Charge	
		TOTAL OWING	NO CHARGE

THANK YOU!

Please e-mail, mail, or fax to: Ontario Ground Water Association
48 Front St. E., Strathroy, ON N7G 1Y6
Fax: 519-245-7196 Email: ogwa@ogwa.ca

For more information about the Ontario Ground Water Association: www.ogwa.ca

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1937 Berkeley Pump Corporation started in a San Francisco-area garage on March 24, 1937. Over the years, the company developed several new product lines, advertising itself as the company with “the most complete line of pumps”.

1946 During World War II, the company dissolved, but after the war, in 1946, members of the original group of directors reincorporated as Berkeley Pump Company. Main manufacturing centers were in Berkeley, Atlanta and Grand Island, Nebraska, with production facilities in Amarillo, Texas and Canada.

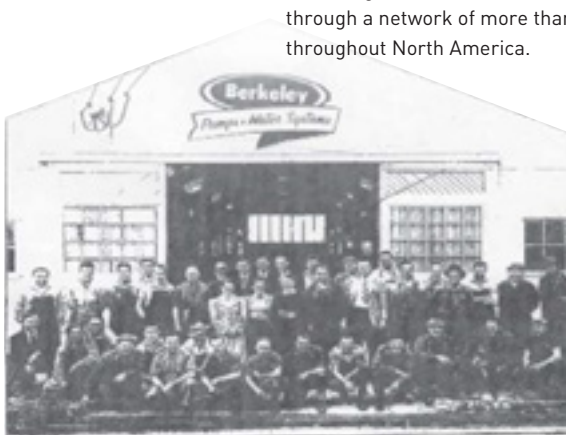
1982 When Transamerica Delaval, Inc. acquired Berkeley 1982, it had grown to about 625 employees with 12 domestic locations and 3,500 active dealers with excellent coverage in Central and South America, the Far East, Australia and New Zealand.

1986 The Sta-Rite company acquired Berkeley in 1986. In 2004, Sta-Rite and Berkeley were acquired by Pentair.

2017 Today, Berkeley is part of Pentair’s Water segment with manufacturing in Delavan, WI and service centers in Grand Island, NE, Fresno, CA, Jacksonville, FL, Wolfforth, TX and Cambridge, ON Canada. Berkeley Pumps are available through a network of more than 5,000 authorized dealers throughout North America.

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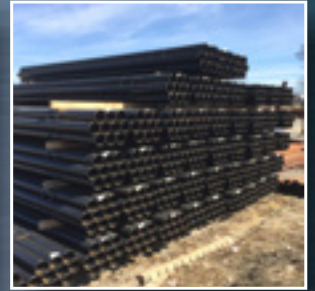
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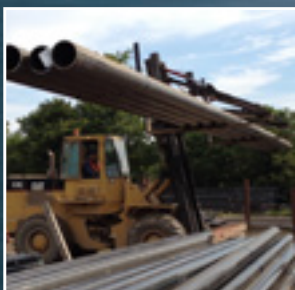
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Stenciling



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Buck On



Robotics

