

# The Source

Summer 2013

A Publication of the Ontario Ground Water Association

## Inside: Past & Future...

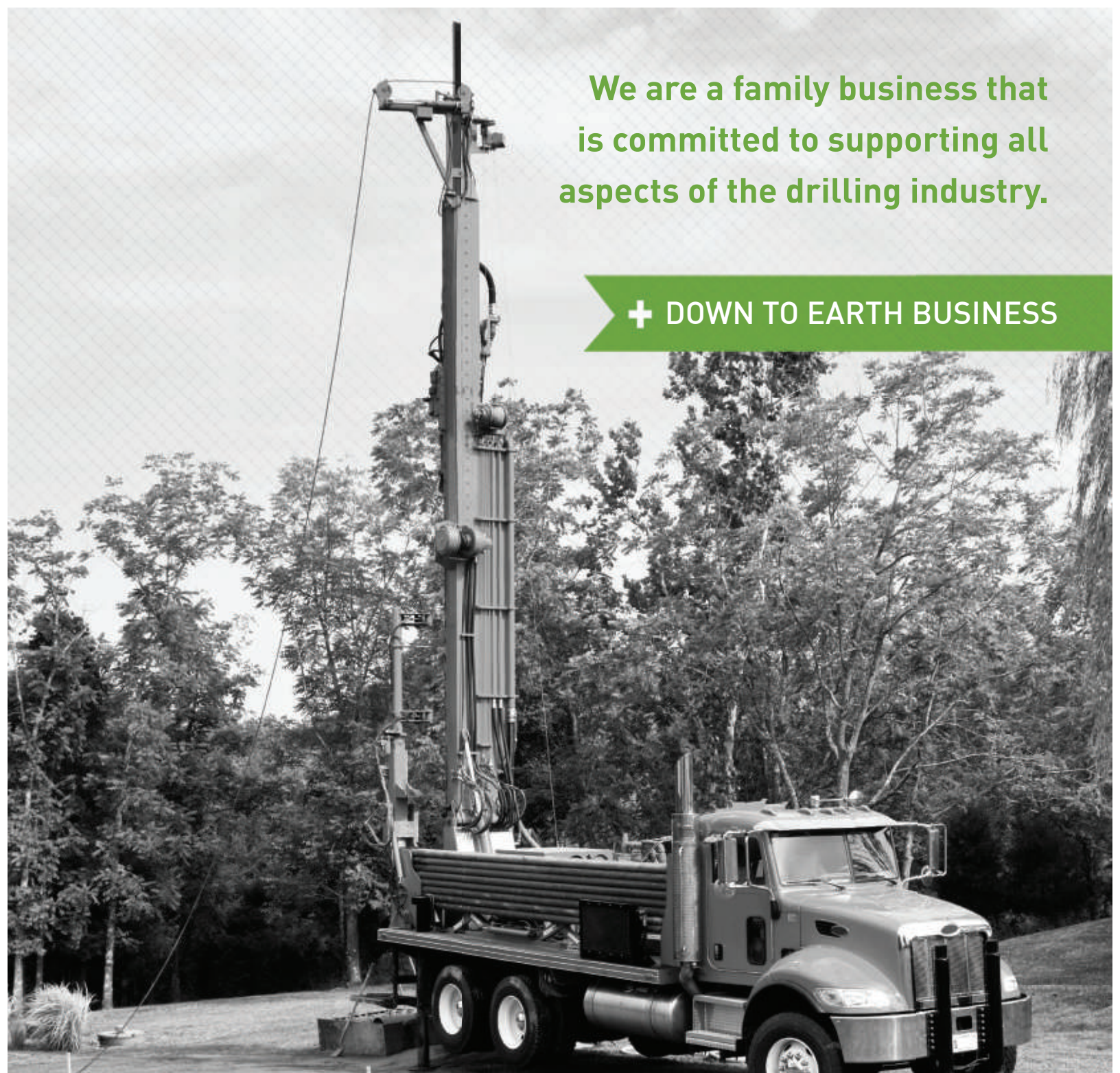
2013 Photos & Coming Events

Ground Water 2014

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Ground Water Festival  
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## PRESIDENT'S REPORT SUMMER 2013

Mid summer!?! Where the heck did the spring and early summer go!! It seems like just last week we had our spring convention at Deerhurst which, from the feedback that I have heard, was enjoyed by all. From our experience there, we have taken things that worked and some items that could be improved upon with the aim to deliver an even better get-together next year. A well deserved thank you is owed to Anne, Craig, Kathleen, and the convention committee, as well as all the member volunteers and their families who worked so hard to organize and run the three days of events. It would not have been possible without you all. After visiting numerous convention facilities the Board recently made the decision to have next year's event from April 4th to 6th at the White Oaks Conference Resort and Spa just outside of Niagara-on-the-Lake. We believe this resort's easy access and excellent design will ensure another great time for all who attend.

We all have maintenance schedules when faced with impending cold that we are forced to comply with during the winter months. Conversely, we have maintenance issues that we are forced to deal with during the hot days of summer such as radiators, coolant, heat stress on drill crews etc., but do we have a season that prompts us look at and maintain and/or improve items to ensure our company's continued good health? For my company, aside from our annual in-depth review at tax time, the "softer" work load during the summer months gives me the opportunity to look at the company's health and financials. It offers a great time to look at the expenditures relative to revenue. How much am I paying for a particular product ex: grout, bentonite, casing etc. and how much am I selling them for? Not as a group, but each item. You may be charging your customer a flat or unit rate for a drilling program, but embedded in that rate you should have realized a profit for each item that you consumed. I know that could be seen as an oversimplification of a company's workings but a company must have a real profit to be sustainable... breaking even just to pay yourself a labourer's wage is not a very good long term business plan. Product and labour costs are common corporate expenses that people usually understand but one major cost that I find many people commonly underestimate or dismiss completely is the depreciation of their equipment. Whether it is just a \$500 pump or a \$1,000,000 drill rig, all equipment loses value. Depreciation is an immense cost for a drilling operation, possibly only second to labour for many of our members.

I believe that much of the undercutting of drill rates that we see is due to contractors not recognizing, or caring, what the true cost of a work program is. Unfortunately for the rest of us who understand the cost, we are forced to absorb the periodic loss just so we can pay the bills hoping that the other guy goes out of business first.

Some of the other items that may be a detriment to your company's financial health would include the carrying cost of equipment loans, other liabilities, pending lawsuits, mortgage interest rates, worker injuries, cost of maintenance, and equipment down time (is it time to buy new equipment?) All of these and more must be continually monitored to ensure that

[ continued... ]

## PRESIDENT'S REPORT SUMMER 2013 *(continued)*

the revenue that you have calculated is sufficient. If not, you only have two choices: raise your rates or lower your costs... maybe a little of both? Finding that balance between the two is tricky and is a moving target most of the time, but our industry must have profit for it to remain healthy and the only way to stay healthy is to perform regular maintenance of your books.

I hope that everyone has a successful summer and early fall. I am looking forward to seeing some of you at our Walkerton Regional in November.

Best regards,

**Dave Gunn**  
OGWA President

### Special Office of the Employer Advisor Update: WSIB maintains current premium rates for 2014

The WSIB has released its 2014 premium rates: <http://preview.tinyurl.com/WSIB-2014-Rates>. It has decided to carry over the current premium rates for all employers through 2014, with no increases or decreases for any rate group, as the Rate Framework Consultation process continues. There will be a 1.1% increase (\$900) applied to the current maximum insurable earnings ceiling of \$83,200, making it \$84,100 for 2014.



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# EXECUTIVE DIRECTOR SOURCE SUMMER 2013

Summer is here - such as it is being presented this year. As usual, we are left to wonder what exactly will we get out of the rest of the season and just how extreme will it be?

The work load at the office has not shown the same volatility as the weather, thankfully. The standard chores of settling the last convention, addressing the location of the next convention, getting the membership cards and Directory to print as well as this edition of the Source, along with public enquiries and members' needs keeps Anne and I without the need of looking for things to do. The new website design is in process and certainly has Anne occupied with all the technical goodies required to make that happen.

The demise of the Canadian Ground Water Association has truly been an unfortunate end to the dealings with the Canadian Geothermal Coalition and we are determined that this not affect our members too adversely. Should you have any concerns or situations develop because of this, please let me know and we will address these to the best of our abilities for you. Please know that the Provincial Associations are committed to maintaining a working relationship and as time allows the work of the CGWA will be continued in a new form. I ask you for your support by attending CanWell 2014 in Kelowna - a fabulous program is in place for your enjoyment.

The 2014 Ontario Ground Water Association Convention returns to the Niagara area April 3rd to 6th, 2014. We have signed with the White Oak Conference Resort & Spa, at 253 Taylor Rd., Niagara-on-the-Lake. Monica and Dave Gunn and the committee have put a lot of work into this already and I am sure this will prove to be a convention like no other. The facility provides all kinds of sports/recreational opportunities from tennis and racquet ball to weight lifting and aerobics as well as the proverbial swimming pool just off the lobby. No need for boredom here - child, teenager or parent alike! Also note "spa" in their name, in house pampering is provided. Add to that, we're in wine country folks, so a winery tour is in the works! Watch for news and book early!

When on a recent trip to "the city" (Toronto), it occurred to me yet again just

how useless law and legislation is without some form of enforcement to instill respect. Has the current climate with regard to law and legislation bred an entire province of law breakers? Are we so sure that we do not have to heed the rules, that we will never be caught, nor need to consider the reason these checks and balances were put into place that there will never be any consequences to deal with? I can't imagine driving 30 to 40 km/hr over the posted speed limit with your children in the car would be considered good parenting or providing a positive role model. While on this trip, I observed an older, obviously professional gentleman in his beautiful brown Acura Sedan, reading glasses perched on the end of his nose, weaving from one lane to the next as he poked at his Blackberry and occasionally looking over those glasses to see where he was going. After he wrecked his car, caused himself serious injury and perhaps took the life of another human being, would the content on that Blackberry have been all that important? Many truckers, those with the most lethal weapons in their hands and supposed to be limited to a certain speed, are hurling down the highway well over that limited speed like a ticking time bomb. One wrong move, one broken piece of mechanics, and they can wipe out many and apparently no thought to those details. We encountered no less than three cruisers sitting under overpasses with their radar guns poised on the traffic. Did they pull any one over? Not that we saw. Weren't those people endangering their fellow man sufficiently?

Is this the same mindset that has happened to our industry? Is this same enforcement mindset pervasive in the MOE or is our government so short of enforcement officers that it only appears this way?

As you know, I work with many complaints brought to me throughout the Province. Three come to mind. One in northern Ontario where a well was drilled too shallow to comply with the regulation (not enough casing), too close to a swamp (a source of contamination) and too close to a septic system (noted by a Department of Health Order). My advice to the occupants: contact your local MOE office. I have heard from them since distraught because they feel they have received no support from the MOE. The driller has returned and added

some six feet of casing to the top of the well and trucked in dirt to create a large mound around it. They are still getting the water from the swamp which plugs their filters in no time, the septic system hasn't moved, but there is enough casing to meet the Regulation. All this makes me wonder where the saga will go from here?

The second situation is in southern Ontario. The owner was taken to the cleaners by one of those guys who preys on people. By agreeing to the cheapest price per foot, the owner ended up with nearly a 100 feet more well than necessary! The water is so terrible it can't be used; it's highly mineralized and full of methane. Complaining to the MOE provided no satisfaction and the owner had no option but to launch a lawsuit. As we all know this kind of bandit works the courts by saying they have no control over where the water is - seems logical - but we know every good driller has an idea of where he is going before he sets out for the site. I advised the owner to become very familiar with the legislation and the BMP and go to court on the grounds of what was not done under the legislation. We'll see how this plays out.

Business owners often forget people talk. Does this driller consider he's unlikely to get a job near there again? There is no advertisement like word of mouth - you can help control whether it's good or bad!

The third type of situation I am hearing about more and more often. More than one contractor has found that combined work and personal circumstances have caused a backlog in their well records and subsequently trouble with the MOE. The MOE has most of these situations going to court without fail. The bottom line, ladies and gentlemen, is keep pen to paper and ensure you keep your records up to date. It appears the route of heading to court over non-compliance due to paper work woes is becoming more and more common.

We encourage your help. Contact the OGWA with complaints when you come across the unacceptable practices of others in the field. For all our members who are "doing it right", be sure to speak up and help us show the Minister of the Environment that the province needs an evenly applied program of enforcement.

As always folks, I am just a telephone call or email away; I look forward to hearing from you.

**K.C. Craig Stainton**  
Executive Director

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to all members. Let the office know if your plaque or certificate requires replacement. Plaques \$50 plus HST, shipping included. Certificates for framing are no charge.

## CORRECTIONS – 2013-2014 MEMBERSHIP DIRECTORY

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www.jjmclellan.ca

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### Page 40: Ven Tech Plumbing & Heating

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### NOTICES OF CHANGES RECEIVED SINCE PUBLICATION:

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#### Page 21 Underground Sonic Drilling Services Inc.

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Fax: 705.259.5656  
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www.undergrounddrilling.ca

#### Pages 17 & 38 J.B. Wilson & Son Well Drilling Ltd. Cell: 519-857-2623

#### Page 38 Mannion's Pump House Ltd. info@ovph.ca www.ovph.ca

#### Page 41 Well Initiatives

Move to Drillers Division  
Page 21 Office: (519) 846-8289  
Fax: (519) 846-8281

#### Page 44 SPL Beatty

Replace with SPL Consultants Limited

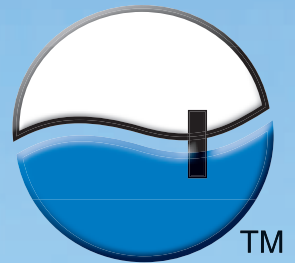
#### Page 49 Genivar (Cornwall) – Replace with:

#### Page 48 City of Cornwall

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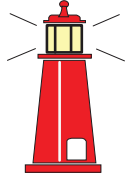
#### Page 49 Genivar (Newmarket)

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# Electrical Safety Authority (ESA) on Burying Electrical Wire:

It has been brought to our attention that there is some confusion throughout the Province on the exact regulations regarding the burial of electrical cable especially with regard to the power source for a well pumping system. In an effort to get everyone on the same page we offer the following information as provided to your Association by Mr. Dave Heron, Technical Advisor, ESA. Please address any questions or comments you may have to the Executive Director so we may all learn via publication in the Source.

If the cable is direct buried you require 3" of sand top and bottom, if installed in a pipe such as big "0" the sand is not required. Trench tape is required for all installations and depth of burial as per Table 53.

Wiring is required to be inspected prior to concealing, consult with your local inspector as to what they will accept, perhaps photographs.

## 2-004 Inspection

- 1) A contractor shall file with the inspection department a completed application for inspection of any work on an electrical installation:
  - (a) before or within 48 hours after commencement of the work whether or not electrical power or energy has been previously supplied to the land, building, or premises on which the work was performed;
  - (b) shall pay the fees prescribed by the inspection department; and
  - (c) be in compliance with Ontario Regulation 570/05 made under Part VIII of the Electricity Act, 1998.
- (2) An application for inspection that has been refused in accordance with the provisions of Rule 2-008 shall, for the purposes of Subrule (1), be deemed not to be a completed application.
- (3) Every contractor who undertakes an electrical installation is responsible for ensuring that the electrical installation complies with this Code and for procuring an authorization for connection from the inspection

department before the installation is used for any purpose.

- (4) The contractor shall give to the inspection department at least forty-eight hours' notice in writing that the work on the electrical installation has been completed and that the installation is ready for a connection authorization, but where the work is being performed in a remote district or is not immediately accessible for any other reason, the notice shall be of such greater length as is necessary to accommodate the inspection schedule of the inspection department.
- (5) Inspections as required by the inspection department may be made at such time and in such manner as the inspection department determines.
- (6) An electrical installation shall not be concealed or rendered inaccessible until it conforms to this Code and such concealment or rendering inaccessible has been authorized by an inspector.

## 12-012 Underground Installations

(see Appendix B)

- (1) Direct buried conductors, cables, or raceways shall be installed to meet the minimum cover requirements of Table 53.
- (2) The minimum cover requirements shall be permitted to be reduced by 150 mm where mechanical protection is placed in the trench over the underground installation.
- (3) Mechanical protection shall consist of one of the following and, when in flat form, shall be wide enough to extend at least 50 mm beyond the conductor, cables, or raceways on each side:
  - (a) treated planking at least 38 mm thick;
  - (b) poured concrete at least 50 mm thick;
  - (c) concrete slabs at least 50 mm thick;
  - (d) concrete encasement at least 50 mm thick; or
  - (e) other suitable material.
- (4) Direct buried conductors or cables shall be installed so that they run adjacent to each other and do not cross over each other and with a layer of screened sand with a maximum particle size of 4.75 mm or screened earth at least 75 mm deep both above and below the conductors.
- (5) Where conductors or cables rise for terminations or splices or where access is otherwise required, they shall be protected from mechanical damage by location or by rigid conduit terminated vertically in the trench and including a bushing or bell end fitting, or other acceptable protection, at the bottom end from 300 mm above the bottom of the trench to at least 2 m above finished grade, and beyond that as may be required by other Rules of the Code, and with sufficient slack provided in the conductors at the bottom end of the conduit so that the conductors enter the conduit from a vertical position.
- (6) Where a deviation has been allowed in accordance with Rule 2-030, cables buried directly in earth shall be permitted to be spliced or tapped in trenches without the use of splice boxes, and such splices and taps shall be made by methods and with material approved for the purpose.
- (7) Raceways or cables, if located in rock, shall be permitted to be installed at a lesser depth entrenched into the rock in a trench not less than 150 mm deep and grouted with concrete to the level of the rock surface.
- (8) Raceways shall be permitted to be installed directly beneath a concrete slab at grade level, provided that the concrete slab is not less than a nominal 100 mm in thickness, the location is adequately marked, and the raceway will not be subject to damage during or after installations.
- (9) Any form of mechanical protection that may adversely affect the conductors or cable assemblies shall not be used.
- (10) Backfill containing large rock, paving materials, cinders, large or sharply angular substances, or corrosive material shall not be placed in an excavation where such materials may damage cables, raceways, or other substructures, prevent adequate compaction of fill, or contribute to corrosion of cables, raceways, or other substructures.
- (11) The initial installation shall be provided with a suitable marking tape buried approximately halfway between the installation and grade level, or adequate marking in a conspicuous location to indicate the location and depth of the underground installation.
- (12) Where underground raceways or cables are subject to movement by settlement or frost, provision shall be made for the prevention of damage to the conductors or the electrical equipment.
- (13) For installations not covered by the foregoing requirements of this Rule, the requirements of CAN/CSA-C22.3 No. 7, or the applicable standard, whichever is more stringent, shall apply.

# BULLETIN 12-2-16

Underground cable installations and cables for submarine use

## Rule 12-012

Issued May 2012

Supersedes Bulletin 12-2-15

### Scope

#### (1) Adequate marking for underground cable installations\*

Sub rule 12-012(11) requires marking for underground installations in a way of "suitable marking tape" or "adequate marking in a conspicuous location". Suitable marking tape shall be permitted as follows:

- Continuous coloured (red or yellow) plastic marker tape(s), as specified in CSA C22.3 No. 7, with black letters identifying the underground power lines installation,
- (i) placed approximately half way between the installation and grade level,
  - (ii) installed covering the width of the installation, and
  - (iii) where multiple marker tapes are required to cover the width of the installation, marker tapes shall be permitted to be placed a maximum of 600 mm apart

Other permitted examples of adequate marking in a conspicuous location are:

- (a) Permanent above ground markers indicating the installation location at intervals of not more than 15 m or at any change in direction, or
- (b) Suitable markers installed above grade at each riser location and at any location the buried installation enters a building or similar structure to indicate the presence of buried cables; with the installation of a layout drawing(s) at a conspicuous location such as the service box or distribution panel will also be considered as complying with the intent of the Rule.

### TABLE 53 - MINIMUM COVER REQUIREMENTS FOR DIRECT BURIED CONDUCTORS, CABLES, OR RACEWAYS

(See Rule 12-012.)

Wiring method	Minimum cover, mm			
	Non-vehicular areas		Vehicular areas	
	750 V or less	Over 750 V	750 V or less	Over 750 V
Conductors or cable not having a metal sheath or armour	600	750	900	1000
Conductors or cable having a metal sheath or armour	450	750	600	1000
Raceway	450	750	600	1000

**Note:**

Minimum cover means the distance between the top surface of the conductor, cable, or raceway and the finished grade.

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# Greetings from Liberia!

Jim Gehrels

Jim Gehrels, President of Lifewater Canada writes to us from Liberia. He will be in Africa for 10 months in 2013 to help improve water supplies for rural people.

Lynda and I are here with 5 members of Elm Creek MB Church in Manitoba... two of whom are also named Jim! We met up in Chicago, flew to Brussels, and after overnighing there left for Liberia... sort-of! We boarded right on time, and then sat on the runway for 5 hours while they plowed snow off the runway, de-iced planes, closed and reopened the airport. Close to our scheduled arrival time in Liberia we finally took off... and headed for Ivory Coast because our flight crew was reaching their maximum allowable continuous shift length and there was a fresh crew waiting there. Long story short, we arrived at our compound at 4 AM Monday rather than 6 PM Sunday.

Before coming, the new volunteers found it hard to imagine what it would be like and what they would be doing. Monday was a busy day of organizing through the blur of jet lag, so I will skip to Tuesday to give you a flavour of their trip.

## [ 24 Hours in Liberia ]

Today we are scheduled to dig-up and relocate part of the sewage line connecting worker housing to the communal septic system. To avoid heat stroke we were up early and the Elm Creekers were out digging at first light. By 8 AM they felt like it was noon and by 10 AM it felt like 5 PM. By the time 8 PM rolled around, they felt like they had been working for 24 hours straight! But my, oh my did they ever accomplish a lot...and all with cheerful hearts, words and laughter!

The guys broke through the septic tank wall and connected the new pipe. All that can be said about that was that the top surface of the liquid was squirming with most bugs known in Liberia! They dug and levelled the trench, the sun beat down on the sewer pipe until it was malleable, and they then

gradually bent it until they could connect with the original line about 40 feet uphill. The new pipe was in use by sundown, 2 days ahead of schedule!

Lynda and Jody took a break and drove through the chaos of Red Light Market to buy sewer pipe and plumbing parts, lumber, food etc. While they were out, Cara took a break from digging and started working with George the Mechanic to label all the mud pumps, high pressure water pumps, generators and rig engines. The goal is to put them all on maintenance schedules and to record the type of filters, spark plugs etc. that each engine uses so we can bring over items that are not yet available here in Liberia.

While this was going on, the team took a number of "breaks". On one of their rest stops, they drained our 1,000 gallon water tank, cut both the filler and drain pipes, and repaired both of the bad leaks. During another rest time, they cleared out the Mechanics vehicle repair area, dug down and leveled the ground, built a frame and laid rebar in preparation for pouring a level concrete pad for the mechanics to work on when fixing drill rig engines, mud pumps and drill trucks.

On another break Jody and Cara took down rusted shelves from the two bathrooms and refurbished them with rust paint. While this was going on, Jason, the other two Jim's and I dug out the cement mixer that had been used to build the compound 4 years ago. George the mechanic happened to have an air filter that fit, the oil level was still good and we borrowed some gas from the generator. On the second pull the mixer started right up, ready and eager to work... must be a Mennonite mixer!

Jim Sr. taught the Compound Manager how to change the wheel on his grind stone, got distracted and when he came back Frank had changed the wheel by himself. The combination of great teaching and eagerness to learn is infectious! In between breaks and septic line digging, we worked with Kenneth (the Lifewater

Liberia Program Coordinator) to develop a 14 year vehicle maintenance and replacement plan. We also met with a local contractor and came up with some improvements to the equipment yard to improve security to avoid a repeat of rogues climbing the wall at night and stealing a motorcycle last year. The one thing they learned during the day was the power of the African Sun, and several months ago in Nigeria we saw how this same sun in one year could disintegrate all the hydraulic and water hoses on a drill rig! To help prevent this from happening here, we took a time-out to design a new large parking shed for the air hammer rig and the Bedford support truck. That will get built another day!

To keep things moving, we ordered and took delivery of a dump truck load of sand... which was dumped in the wrong place leading to dozens of trips with wheel barrows moving sand around! The team took a break from this to visit the worker families to make a list of issues and problems they had with their houses (like leaking sewage lines, roofs and sinks).

We restored water flow in blocked taps in the laundry room, bathrooms and kitchen and Lynda made us rice fit for royalty, and we were all so tired that we forgot to eat the Belgium chocolate that we had picked-up in Brussels. Everyone was in bed by 8 PM... I don't really know why since the team sure took a lot of breaks during the day!

And that is how you squeeze 24 hours of work into 12 hours of sunlight in Liberia! A lot of time spent building the capacity of the team and improving their infrastructure so they can focus on drilling wells for villagers who are getting sick and dying because they have no safe drinking water. Tomorrow both crews are out drilling, the hygiene team is leading a community workshop and everyone will be out watching and helping drill the wells that their community back home are sponsoring!

I am suddenly feeling very sleepy so good night from Liberia, Jim

# Welcome to Barbados!

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Our happy group of OGWA members in Cuba, February 2013



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~ Dave Gunn, OGWA President ~

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# Understanding Well Problems



David Hansen, Design Water Technologies

This is the second in a series of articles about successfully understanding well problems in the field. These tips are critical for all who work in the field (contractors, engineers, health department personnel, & even home owners) to better understand problems with coliform, E. coli, iron bacteria, odors, corrosion, etc. The first article focused on understanding chlorine, the second looks at chlorine in field application.

## To Use or Not to Use Chlorine to Solve Well Problems

We have a tendency to use chlorine for lots of problems that it is NOT designed for. This includes uses against odors, Iron bacteria, and multiple coliform failures.

### ODORS:

When you have an odor in the well, we too often shock chlorinate the well. The problem may go away for a short period of time but **ALWAYS** comes back. And we know it's going to happen, yet we do it anyway. We even tell the customer the odor is probably going to come back. So, my question is, WHY set ourselves up for certain failure? There are several odors that we see in wells. The most common is that all too familiar, "rotten egg" odor but there are others like musty, oily, metallic, or fishy odors.

**"Rotten egg" odors in a new well:** This is a sulfur like odor that is most often hydrogen sulfide gas produced by a bacteria, Sulfate Reducing Bacteria (SRB). These bacteria are,

- naturally occurring soil organisms
- anaerobic only which means they only thrive in a low oxygen environment
- secrete a corrosive enzyme to dissolve nutrients so you may see minor corrosion
- their main nutrient is sulfate, hence the name.

We have done field tests that tied SRBs to clay and shale lenses in an aquifer. These lenses often contain sulfate and gypsum which is a natural nutrient. The water in clay is trapped and the oxygen rises, leaving a low oxygen zone. This provides lots of nutrient and no oxygen. On 10 occasions, we have reviewed Well Logs and requested the contractor to set shorter screens just in the clean sands/gravels. In one county in Iowa with huge odor issues, we had 8 total successes with no odors and 1 with a severely reduced odor problem. Look at your Well Logs when you have issues in an area and see if it would be possible to adjust the depth to avoid the shale layer.

### The design of the well can allow areas that permit an anaerobic zone for SRBs to grow.

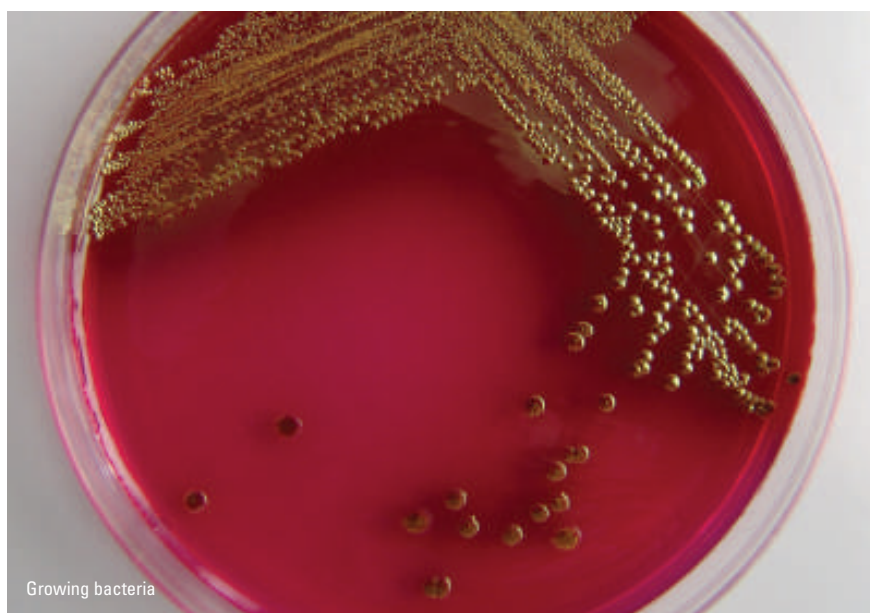
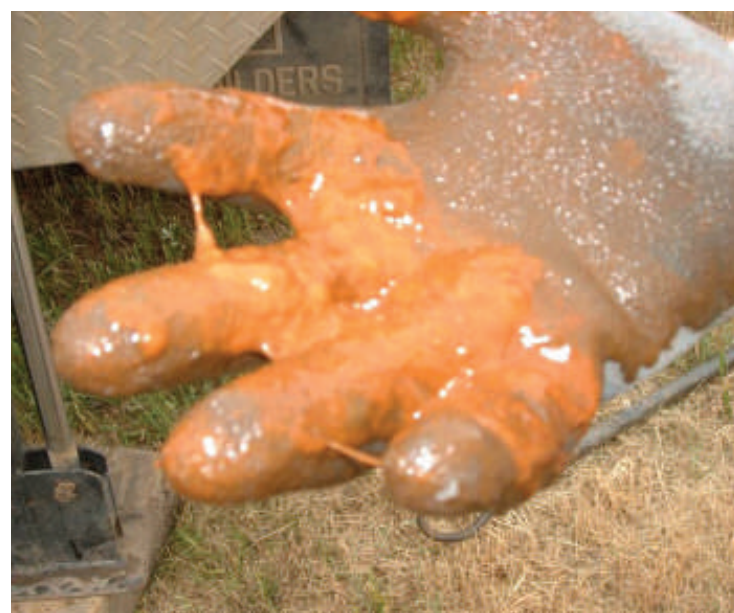
1. Sumps below screens are generally designed as an area for sand to fall into the bottom of the well during pumping. These same sumps will also allow a low oxygen environment. The sump of a well is a dead area where oxygen rises leaving this zone anaerobic, perfect for anaerobic bacteria. Air or water injection into the bottom of this zone during pumping can minimize this issue.

2. During the drilling in a consolidated formation, the drillers drill past the fractured, production zones in an attempt to find more water. These non-productive areas as well can provide an anaerobic zone. The answer is not shocking the well, but aeration of the water. The use of bladder-less pressure tanks often solves the problem.

**"Rotten egg" odors in older well:** The odor is still caused by the same bacteria, SRB. Since they are anaerobic only, we have to suspect some physical issues or changes have happened in the well or the system. We often see problems with iron bacteria or slime forming bacteria producing a polysaccharide mass. SRBs like to burrow under this mass. The area in the well between the pumping and static level allows movement of water. This movement (up and down) can knock off some of this biological debris exposing anaerobic bacteria and hence intermittent odors.

**HINT:** Check the interior of piping near the well or check the drop pipe or column pipe of pumps for debris. This sludge can be analyzed by some labs. On one project in Arizona, we were doing a breakdown analysis of debris where the odor from





SRBs was so bad, the sample had to be moved outside. I asked the contractor to be aware of this while wire brushing the well. He was not at all concerned as the well was in the middle of a park. He called from the site when his helper passed out. The wire brushing removed the biological debris exposing the SRBs and releasing hydrogen sulfide gas. This gas is lethal in high concentrations. Luckily, he survived but spent 3 days in the hospital.

**“Musty”, “fishy”, “metallic”, or “oily” odors and iron bacteria:** These odors can happen in new wells within a month of drilling but are more consistent after a couple of months to years. Discolored water is often noticed upon start-up.

**HINT:** look in the interior of piping at a Union Joint by the pressure tank or lift the pump and inspect for the presence of biological, slimy debris. If present, this would probably be the cause of the odors. Notice if this debris is in the system and in the well. If not in the well, you may have a break in your piping system pulling this debris into the line during pumping.

When iron bacteria (slime formers) is found in the well, we too often shock chlorinate the well. We assume the problem goes away as the discolored water is no longer present and the yield of the well partially returns. Some months later the customer is complaining about discolored water or odors again. Shock chlorination is highly oxidative in nature. pH of this chemistry is excessively high and often over 9.5-10. This oxidative chemistry compacts loosely bound, biological debris and makes it denser. That is the reason the discoloration may disappear. It also creates some corrosion opening slots of a screen. But this dense biological debris remains in the well as a nutrient. The problem returns and the frequency of treatments gets shorter.

The reason? These slime formers are naturally occurring organisms present in every aquifer but in small numbers. When you turn on the pump in a well, water flows from 360° to the bore hole. When these bacteria get to the well, they see the remaining decayed nutrient and want to stop. The process simply starts again. I have had success for long term treatments, some lasting longer than now 21 years and I believe it is due to our chemistry which has the ability to deal with the live organisms and this decaying debris along with our monitoring process to determine when the bore hole is clean. These naturally occurring bacteria are still drawn to the borehole during pumping but there is no nutrient at the well to attract the bacteria to attach.

### Multiple failures with chlorine in a new well

If you are having multiple failures in a new well and you are using regular chlorine, you have to suspect natural pH of the well water, shelf life issues, or where you are testing as suspect issues. If you are testing in the system and having coliform issues, you have to assume the problem is from that testing point backwards to the well. Test at the well. If no issues there, the problem is in the system. Systematically work backwards or pressurize the piping to determine if there is a leak. That leak can cause a venturi effect during pumping creating all kinds of problems with coliform, E. coli, discolored water, iron bacteria, odors, etc. We have seen some contractors chlorinate and shock chlorinate 10-12 times using more and more regular chlorine. We have seen some situations where the situation was so dire, another well was drilled. The coliform tests were failing in the first well because of failed grout. When a second well was drilled 20' away from the first to the same depth, the coliform was pulled down the failed grout and horizontally to the new well. Now, the

only answer is to drill to a deeper aquifer or move a greater distance from the first well.

If you are using our chlorine and have two failures and certainly three failures in a new well, and there is certainty about the chlorine as a product, the only reasons for multiple failures would be,

- 1. Placement of chlorine.** You can use our chlorine as you normally would but if you have a first failure, consider placement of chlorine in equal, 40' increments from the bottom of the well upwards to static.
- 2. There is a continuing source of bacteria** (coliform, E. Coli, or Opportunistic Pathogens). Is there a breach in the well or system – check carefully as you cannot fix a physical problem with chemistry.

### Multiple failures with chlorine in an older well

You must consider physical issues that may include,

- the age of the well and potential of corrosion of the steel casing.
- if the well was grouted or not, type of grout, how it was grouted, and static level
- if there is physical debris in the well that could harbor coliform bacteria. This could include iron bacteria or slime forming bacteria or mineral deposits. Any chlorine can NOT penetrate physical debris and rid the coliform.
- where you are testing.

**Information is critical to success. There are many things that you can do in the field to be more successful. Safely cleaning systems is far FAR cheaper than replacing buried lines. Service work can be more profitable than drilling. And you provide a necessary service to your customer as you solved the problem, long term.**

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I know I was a huge part of making this all happen, but when they applaud you go up there Monica!



John Wilson "on the wagon"



The Board in attendance at the President's Banquet.



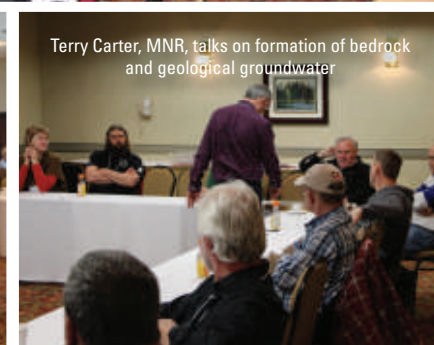
Past director Garnet Rumble has a handful of chips and a smile on his face



Theme night Hospitality Suites – Rideau's Margaritaville went over very well with lots of staff and giveaway glasses



The continuing education was well attended



Terry Carter, MNR, talks on formation of bedrock and geological groundwater



Our Office Manager Anne Gammage and her husband Phil - this dynamic duo keeps things running smoothly



Oh! Oh! This will mean business!



Careful! They look cute and unassuming!



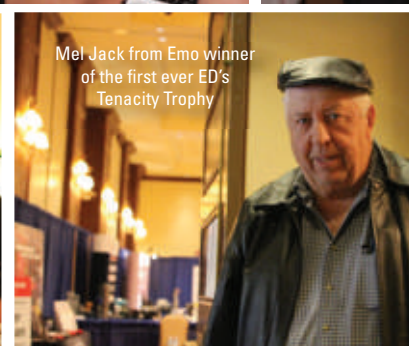
James, Ella, Nicole, Phil & Craig slowed down long enough to clean up pretty well



Support staff in place – check – M & S meeting is now open!



DI Corp sets their stamp on the hospitality suite.



Mel Jack from Emo winner of the first ever ED's Tenacity Trophy



It was stormy elsewhere but Mother Nature looked after us at Deerhurst.



Battlefield Rentals - another new OGWA member

# 2013 Drillapalooza Convention

Photo Credits: Dave Gunn – Geo-Environmental Drilling Inc. and Steve Bleizeffer – Lackner McLennan Insurance Ltd.



Now there's a happy President



A new Fleming acquisition



Eloquip a new member and an example of their custom truck bodies

Proud papa! How's gambling 101 going?



High stakes anticipation all around at the Lackner McLennan casino night.



What is it they say about imitation?



Hola! From Cuba!



The OGWA is not responsible for bad habits acquired in foreign countries!



The Trade Show is a hit!



A dynamic duo – Dave Gunn & Andrew Caine



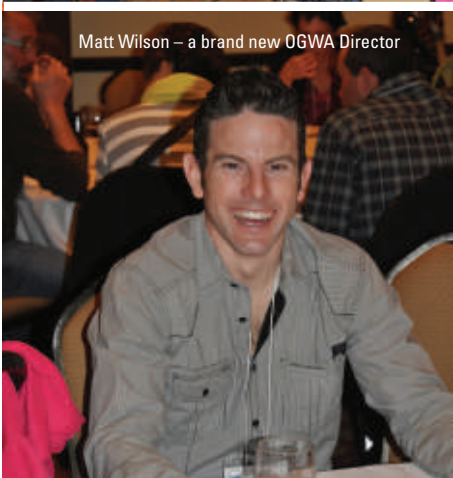
Water donated by Ice River Springs, Feversham –Thanks!



Patty, Monica, & Brandy, officially open the Trade Show



Matt Wilson – a brand new OGWA Director



The Caseys were always smiling!



The M&S ready for their early morning meeting.



G.H. Hart rig set up to educate children and families in Peterborough.



Will one of these young ladies or gentlemen attend Fleming some day?

Brian Barron, Ministry of Labour, provides CEC training hours in Huntsville.



Children discover the big metal monster that brings them water.



All our CE Course, Regional Meetings were well attended in 2012/13

Chris Graves - Sales Support Manager for Atlas Copco Mining and Rock Excavation Technique Canada - is seen here donating a cut away 5 inch down the hole hammer to the students in the Fleming College Resources Drilling and Blasting program.



# Drillapalooza!

## Convention & Trade Show April 2013

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Monte Carlo Night Entertainment - Friday	Lackner McLennan
President's Banquet - Saturday - Joint Sponsor!	Canadian Pipe
President's Banquet - Saturday - Joint Sponsor!	Grundfos
Hospitality Suite Thursday - Signature Drink & hot hors d'ouvres	Di-Corp
Hospitality Suite Friday - Signature Drink & hot hors d'ouvres	Rideau Group
Technical Session Lunch - Saturday - CEC & Other Courses	Pentair Water Canada
Monte Carlo Night Prizes - Friday	Heron Instruments & Safety Works Consulting
Trade Show Coffee - Friday	Montreal Steel
O.G.W.A. AGM Coffee - Friday	Boshart Industries
Technical Session Coffee - Saturday	Kathleen Boose Bookkeeping
Swag Bags Donated by	Baroid IDP, Lackner McLennan, & Rideau Group

From your grateful staff - Craig Stainton & Anne Gammage

**To the 2013 OGWA Convention Committee  
for all their hard work and planning.**

**Our Amazing Volunteers – Working Above & Beyond the Call of Duty:**

Dave & Monica Gunn	Stephen Bleizeffer
Andrew & Patty Caine	Ellaline Davies
Bryan & Brandy Watson	James Gunn
Roger McHugh	Phil Gammage

*...and all the others who make this happen!*

**The "Not So Silent Auction" was a roaring success -  
Thank you to all donors & bidders for raising \$7,550 !!**

How fascinating that our OGWA tiger could make it up that high without any assistance! Or was there assistance? I know that the member(s) responsible for this wore their harness(es) and were tied off because I taught you all to do so. What is wonderful about this is that it proves that harnesses can be worn for all sorts of tasks and doesn't impede the ability to get the job done!

**Congratulations on being safe!**

Ellaline Davies, Safety Works Consulting Inc.





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\* 5 HP unit is only 3-phase output. 60 Hz operation is recommended as the industry standard. Intermittent 80 Hz operation is an acceptable option.

\*\* Ongoing 80 Hz operation may reduce the life of the pump and motor.

## Company Fined \$20,000 For Well Violations (May 17, 2013)

**OTTAWA** - A company and director were fined \$20,000 for well violations in relation to constructing wells, contrary to the Ontario Water Resources Act.

"Environmental protection legislation protects communities and the environment. Breaking these rules can result in serious penalties and is an offence the ministry takes very seriously," said Environment Minister Jim Bradley.

Wayne Renwick is the president of Olympic Drilling Company Limited and operates a water well construction business in Ottawa. Mr. Renwick also works at the company as its licensed well technician. The ministry initiated an investigation into the company as a result of receiving a complaint that the company had constructed wells without necessary licences and that no well records had been provided.

The evidence obtained during the investigation indicated that the company and Mr. Renwick had constructed or made improvements to a number of wells without having the appropriate licenses.

The company failed to affix a well tag to the outside of the well and failed to submit the well records within 30 days of completion of the well. Mr. Renwick also provided false well records.

The company and Mr. Renwick were fined a total of \$20,000 plus victim fine surcharges of \$5,000 and were given one year to pay the fine.

## Resident Fined \$1,000 for a Well Violation (February 22, 2013)

**BELLEVILLE** - A resident was fined \$1,000 for engaging in the business of constructing a well without a well contractor license.

"The Province will prosecute those whose actions contravene Ontario's environmental laws and damage our shared resources," Environment Minister Jim Bradley.

Mr. Dempsey operates an excavating business and was contracted to construct and install a septic system and water well for a residential property located in Quinte West. The property owners encountered well water supply problems and contacted the ministry, who visited and determined that the well had a number of deficiencies.

Mr. Dempsey was fined \$1,000 plus a victim fine surcharge of \$125 and was given 60 days to pay the fine.

## Company Fined \$1,000 For Well Violation (January 25, 2013)

**THUNDER BAY** - A company was fined \$1,000 for constructing a well without having a well contractor license.

"The Province is always prepared to go to court to defend the natural environment from those who would treat it irresponsibly and cause harm," Environment Minister Jim Bradley.

Tycon Construction Inc. is located in the Municipality of Neebing. The company was contracted by a neighbour to work on a well. The company removed the existing corrugated culvert casing of the well, and replaced it with concrete well tiles. The neighbour then submitted a sample of the well water to a public health laboratory and the analysis revealed that the water was unsafe to drink, due to excessive contamination.

The company was fined a total of \$1,000 plus victim fine surcharges of \$125 and was given three months to pay the fine.

## Company Fined \$10,000 For Well Violation (January 25, 2013)

**LONDON** - A company was fined \$10,000 for engaging in the business of constructing a well by replacing a pump without having a well contractor license.

"Environmental protection legislation protects communities and the environment. Breaking these rules can result in serious penalties and is an offence the Ministry takes very seriously," Environment Minister Jim Bradley.

The landlord of a rented home contacted Hyde Park Plumbing & Heating Limited to investigate why there was no water supply to a house located in the Municipality of Middlesex Centre. The company dispatched a plumber who discovered that the well pump had failed and replaced the pump. Later, a spill of gasoline and oil from a motorcycle occurred close to the well and contaminated it. The Middlesex-London Health Unit was contacted and a joint inspection with the ministry found numerous deficiencies and determined that the company was responsible for engaging in the business of constructing a well without having been issued a well contractor license.

The company was fined \$10,000 plus a victim fine surcharge of \$2,500 and was given 90 days to pay the fine.

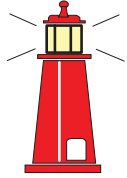
### For further information

**Members of the media: Kate Jordan, Communications Branch (416) 314-6666**

**Contact information for the general public: 416-325-4000 or 1-800-565-4923**

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## EPS (UL Type 1 enclosure pictured)



- Industrial HOA switch and LED Run pilot light.
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- 115~480VAC, multi-tap CPT with integrated protection, no fuses required. Standard 120VAC secondary control.



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- Train driver noticed water pouring down onto the roof of his train
- Train sent to investigate stopped just as drills penetrated tunnel ahead

# Major rail disaster narrowly averted after two huge construction drills burst through tunnel wall

Rail staff averted a possible major disaster today when two huge construction drills came through a tunnel wall on a major commuter route.

The driver of a train from Moorgate in London to Welwyn Garden City in Hertfordshire saw muddy water pouring on to the roof of his 10.02am First Capital Connect (FCC) train north of Old Street station. He reported the incident and all rail services were stopped.

Two construction drills came through the tunnel of the route from Moorgate to Welwyn Garden City

A Network Rail (NR) mobile operations manager went to investigate the problem on board a special empty train from Moorgate at 11.05am.

As the train approached at low speed, two large piling drills came through the skin of the tunnel of the Moorgate to Finsbury Park Northern City line. The train stopped in time but the driver was left shaken.

The rail route, used by two million City workers every year, was closed for the incident to be investigated and for repairs to be carried out.

The incident happened north of Old Street on the Northern City line from Moorgate to Finsbury Park.

British Transport Police visited an office construction site above the line and the Rail Accident Investigation Branch were notified. FCC managing director Neal Lawson said: 'This was a serious incident that could have ended very differently had it not been for the vigilance and prompt reporting and actions of our drivers.

'We carry two million people a year on the Northern City Line and whoever is responsible for this must be held to account.

'Meanwhile, we have published details of alternative travel arrangements and are urging our passengers to check [www.firstcapitalconnect.co.uk](http://www.firstcapitalconnect.co.uk) for the latest news but the line will be out of action for the rest of the day at least.'

NR said specialist tunnelling contractors had been sent to the scene to assess the damage.

NR route managing director Phil Verster said: 'Our engineers are on site assessing the damage and we will restore the railway as soon as possible but unfortunately

the line will remain closed for the rest of the day.'

During tonight's peak, FCC services were ran in and out of King's Cross or Finsbury Park instead of Moorgate. Just two services had to be cancelled but six had to start from Alexandra Palace.

The line is normally closed at the weekend and engineers will be working to reopen it in time for Monday morning's service.

By EMILY DAVIES

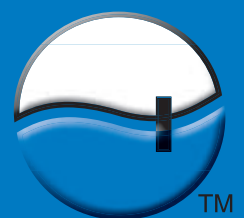
PUBLISHED: 20:56 GMT, 8 March 2013 |  
UPDATED: 00:51 GMT, 9 March 2013  
[http://www.dailymail.co.uk/news/article-2290384/Major-rail-disaster-narrowly-averted-huge-construction-drills-burst-tunnel-wall.html?ITO=1490&ns\\_mchannel=rss&ns\\_campaign=1490](http://www.dailymail.co.uk/news/article-2290384/Major-rail-disaster-narrowly-averted-huge-construction-drills-burst-tunnel-wall.html?ITO=1490&ns_mchannel=rss&ns_campaign=1490)

Read more: <http://www.dailymail.co.uk/news/article-2290384/Major-rail-disaster-narrowly-averted-huge-construction-drills-burst-tunnel-wall.html#ixzz20g4InfP8> Follow us: @MailOnline on Twitter | DailyMail on Facebook

## M.O.E. CONTINUING EDUCATION COURSE THURSDAY NOVEMBER 28, 2013 • WALKERTON CLEAN WATER CENTRE

- 7 HOURS. NUMBERS LIMITED. MEMBERS - ADVANCE REGISTRATION STARTS SEPT. 23, 2013!
- MEMBERS WILL RECEIVE NOTICE BY EMAIL & FAX.
- NON-MEMBERS ARE WELCOME TO REGISTER AFTER OCTOBER 21ST.

CONTACT OGWA TODAY! 519-245-7194 [ogwa@ogwa.ca](mailto:ogwa@ogwa.ca)



TM

## Enbridge makes significant equipment donation to Frost Campus

City of Kawartha Lakes, ON - (June 17, 2013) – Enbridge Gas Distribution has donated \$450,000 worth of equipment, including a directional drill system, to Fleming College’s Resources Drilling and Blasting program, which will ensure students are trained on the latest equipment being used in the field.

Enbridge officially announced the donation at a special event held at the Parnham Training Centre at the Frost Campus of Fleming College on Monday June 17. “Enbridge Gas Distribution has a strong commitment to education and training, and is proud to support students at Fleming College,” said Michael Wagle, Operations Manager, Enbridge Gas Distribution. “This equipment is commonly used by many construction and utility companies, and will help ensure students have the knowledge and hands-on experience to safely install underground pipes or cables.”

The complete directional drill system includes a 2012 Ditch witch JT 20/20 drill, a 2012 International service truck with a fluid mixing system and an on-board air compressor as well as a 10-ton enclosed float trailer, an 8500 tracking system and a complete set of down hole tools.

The equipment is used to facilitate the installation of underground utilities, such as gas or fibre optic cables, by drilling horizontally rather than digging an open trench. This practice avoids the environmental and social costs of open-trenching operations, which may involve tearing up roads, interrupting traffic, or disturbing creek beds. Students will learn how to safely and effectively operate the equipment in horizontal directional drilling classes in the third semester of the four-semester (two-year) diploma program.

“We are very grateful for this donation from Enbridge. The students will be learning on current technology that they will see as soon as they enter the construction or utilities industries. This will make our graduates more employable for the growing trenchless installation industries,” said Steve Wilkinson, Coordinator of the Resources Drilling and Blasting program.



“Experiential learning is what sets this learning experience apart from the rest. Seventyfive per cent of the program learning is in our drilling test field with students on the seat of the drill. This applied learning enforces theoretical learning from the class to the drilling equipment, thus allowing the student to develop real skills required for the job.”

*(Left to right) Jim Smith, Faculty Member, Fleming College; Arnim Julien, Fleet Management Manager, Enbridge Gas Distribution; John Mellish, Fleet Supervisor, Enbridge Gas Distribution; Michael Wagle, Operations Manager, Enbridge Gas Distribution; Linda Skilton, Principal of Frost Campus, Fleming College; Tony Tilly, President, Fleming College; and Aidan Montgomery, student in the Resources Drilling and Blasting program.*

# Province Gives Kemptonville and Merrickville \$270,000 to Protect Local Drinking Water

October 4, 2012—The Municipality of North Grenville and the Village of Merrickville-Wolford announced yesterday that they received \$270,000 to improve their municipal wells so they only draw water from a deeper more protected source of groundwater. This project was undertaken to add another layer of protection to local drinking water keeping it clean and safe for local residents. Funding was provided by the Ministry of the Environment through their Ontario Drinking Water Stewardship Program and the work was completed by Lotowater Technical Services.

Mayor David Gordon of North Grenville explained that this project came about because of work the conservation authorities were doing to study and protect local sources of drinking water. "Work by the Mississippi-Rideau Source Protection Committee led our staff to identify an opportunity to help keep contaminants out of our municipal wells by deepening the casings. This is a great news story for the 3400 Kemptonville residents and 1000 Merrickville residents who rely on municipal drinking water".

Mayor Douglas Struthers of Merrickville-Wolford noted that another benefit of having a better protected source of drinking water is it reduces the size of the area around the municipal wells where extra restrictions are needed to protect source water. "By being proactive and modifying our wells, over 1500 properties in Kemptonville and Merrickville will not need to be further regulated".

Alan Arbuckle, Past Chair of the Rideau Valley Conservation Authority was pleased to see the positive results that had been achieved by the province, municipalities and conservation authorities working together. "We were pleased to support our municipal partners in securing provincial funding for such an important project and we are happy that the province choose to invest in a project that protects the health of local residents"

- *Mississippi Valley Conservation Authority*



## COMING EVENTS

**SEPTEMBER 23 - 24, 2013**

**Conference on Groundwater in Fractured Rock and Sediments**  
National Ground Water Association (NGWA)  
Burlington, VT

[www.ngwa.org](http://www.ngwa.org)

**SEPTEMBER 25 - 26, 2013**

**Tight Oil & Shale Gas Water Management Canada**  
Canadian Business Conferences  
Calgary, AB

[www.tight-oil-shale-gas-water-2013.com](http://www.tight-oil-shale-gas-water-2013.com)

Focused on developing techniques for cost effectively recycling and handling flowback and produced water to drive down logistical costs, reduce waste water disposal, and maintain social license to operate in the Western Canadian shale plays.

**OCTOBER 5 - 9, 2013**

**WEFTEC 2013**

[www.weftec.org](http://www.weftec.org)

Water Environment Federation's Annual Technical Exhibition and Conference, is the largest conference of its kind in North America and offers water quality professionals from around the world with the best water quality education and training available today. McCormick Place South, Chicago, Illinois, USA

**NOVEMBER 20 - 22, 2013**

**Latornell Conservation Symposium – Resilience: The ability to adapt to change**  
Nottawasaga Inn & Convention Centre, Alliston, ON

[www.latornell.ca](http://www.latornell.ca)

20th Anniversary Current Keynote Speakers – Chris Hadfield, Astronaut; Jim Bradley, Minister of the Environment; Gordon McBean, Professor & Director, Western University; Jeremy Gutsche, Founder of Trendhunter.com

**NOVEMBER 28, 2013**

**OGWA Regional Training Meeting**

Walkerton Clean Water Centre, Walkerton, ON  
Licenced Water Well Technicians - 7 MOE CEC Hours  
Ontario Ground Water Association

**519-245-7194**

[www.ogwa.ca](http://www.ogwa.ca)

**DECEMBER 3 - 6, 2013**

**2013 NGWA Groundwater Expo and Annual Meeting**

Music City Center  
201 Fifth Avenue South  
Nashville, Tennessee, USA

[www.ngwa.org](http://www.ngwa.org)

**APRIL 3 - 5, 2014**

**OGWA Convention & Trade Show – Our Best Networking Event**

Ontario Ground Water Association  
62nd Convention & Trade Show  
White Oaks Resort, Niagara-on-the-Lake, Ontario  
Phone: 519-245-7194  
Email: [ogwa@ogwa.ca](mailto:ogwa@ogwa.ca)

[www.ogwa.ca](http://www.ogwa.ca)

[www.whiteoaksresort.com](http://www.whiteoaksresort.com)

**APRIL 23 - 24, 2014**

**International Emerging Technology Symposium (ETS) in**

Crystal Gateway Marriott, Arlington, Virginia  
CIPH, co-convenor

# Rural Water Testing Packages

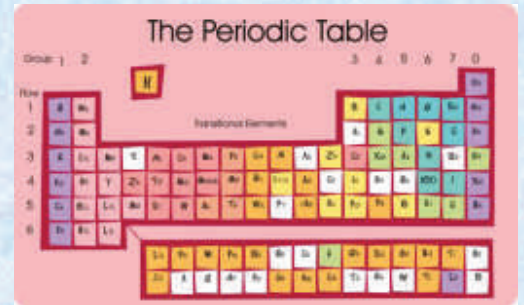
Brought to you by Well Wise and the Ontario Ground Water Association (OGWA).

**Contractors or Well Owners – Call to Order – OGWA / Ph: 519-245-7194**

## Metals, Minerals and Salts \$132 \*\*

“Detailed general chemistry package; all wells should be screened for these impurities.”

This package tests more than 40 parameters. It is a good general chemistry water testing package providing well owners with a detailed understanding of impurities that may be in their water because of rock or surrounding land uses. It includes hardness, iron, and heavy metals.



## Bacteria \$50 \*\*

“Test if your free bacterial test is frequently above standard”

This bacterial package offers the assessment of Total Coliforms, *E. coli*, which are done in a Ministry of Health test. Fecal Streptococci and *Pseudomonas aeruginosa* were added to our test package to help determine a potential source to help you take action.

## Fuels \$ 185 \*\* Solvents \$110 \*\*

These packages are useful if you live near a gas station, if you have underground fuel storage or industrial uses nearby or if you have any reason to suspect an issue with petroleum products in your water supply. Combining both test packages will assess 40 different compounds and includes: Benzene, Vinyl chloride, acetone, chloroform, and methylbromide.



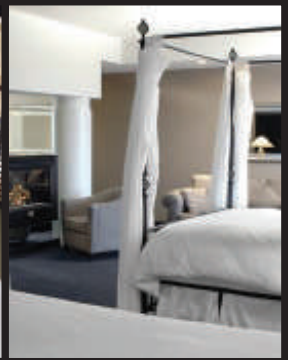
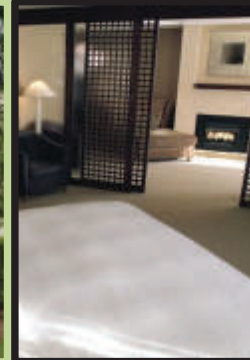
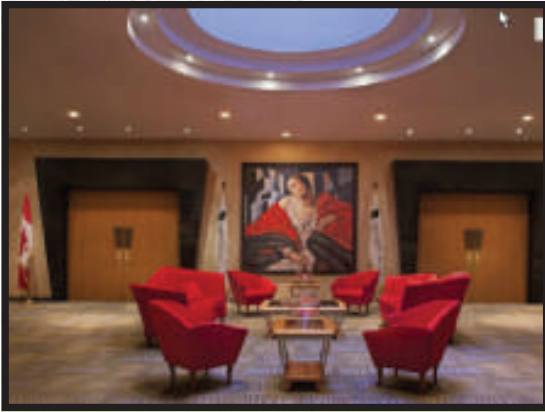
## Pesticides \$275 \*\*

This package analyzes well water for a broad range of organochloride and organophosphorous pesticides. These are the most commonly used pesticides in Ontario over the last 30 years. This package is good to screen your water initially and again every five years to keep an eye on your water supply.

Bacterial	\$ 50.00	\$
Fuels	\$ 185.00	\$
Solvents	\$ 110.00	\$
Metals, Minerals, and Salts	\$ 132.00	\$
Pesticides	\$ 275.00	\$
Fluoride	\$ 15.00	\$
<b>Additional Fees (Required)</b>		
Sample Disposal Fee (one fee for all tests ordered)	\$ 1.75 ea	\$ 1.75
Shipping	\$ 25.00	\$ 25.00
Administration	\$ 20.00	\$ 20.00
	<b>SUB-TOTAL:</b>	\$
Harmonized Sales Tax -	HST add 13%	\$
	<b>TOTAL:</b>	\$

Test kits are couriered to your business or home, then picked up and delivered to the lab.

\*\*Sample disposal fee, shipping cost, taxes, and administration are additional to the prices listed.



# OGWA 2014 Convention & Trade Show

**April 3 - 5**  
**White Oaks Conference Resort & Spa**  
**Niagara-on-the-Lake, Ontario**

- Fantastic meeting rooms & luxurious accommodations
- Come to your Manufacturers & Suppliers Trade Show
- In the heart of the Niagara winery region
- Offering fun, food & family fitness – under one roof
- Networking, Auction, President's Dinner & More!

[www.whiteoaksresort.com](http://www.whiteoaksresort.com) Details coming soon - [www.ogwa.ca](http://www.ogwa.ca)



[www.heroninstruments.com](http://www.heroninstruments.com)  
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Ask for the best selling dipper-T – the one with the yellow tape.

"Finally a tape that's easy to read on site"  
– A happy customer



**(James) Vaughn Anderson**  
February 12, 1935 –  
February 28, 2013

(James) Vaughn Anderson passed away with dignity and in the presence of loved ones at St. Joseph's General Hospital on February 28th, 2013. From his modest beginnings near Arthurette, New Brunswick, Vaughn worked hard first as a Steam Engineer with Canadian Pacific Railroad and later as a water well driller. Vaughn migrated to the West Coast and finally settled in the Comox Valley in 1970. Vaughn ran several successful businesses throughout his life including Atlas Manufacturing in Merville, which produces and markets an ingenious tool that has revolutionized the water well drilling industry. For Vaughn, life was always an adventure where there wasn't a road that he wouldn't drive down. He traveled extensively throughout the world for work and the pure pleasure of seeing what was out there and what was next. Vaughn's greatest strength was his ability to dream and to share that dream with those with wisdom enough to listen. Vaughn is predeceased by his parents James and Annie (Sullivan), sister Marion, and infant daughters Adrienne and Psyche. He is survived by his loving wife of 43 years, Myrna (Yeomans), daughters Lynn Charlton (Terry), Brenda LaTorre (Ron), Laurel Anderson (Wes Sawatsky), Marion Anderson-Goodine (Blair), Emily Wand (Pat), sons Kenneth (Diana), Paul (Trudy), Jody, stepdaughters Vicki McRae (Rick), and Valerie Burgoyne (Bliss), six sisters, one brother, 23 grandchildren, and 7 great-grandchildren. We would like to thank the exceptional staff and caregivers who made his last moments comfortable. A gathering to celebrate Vaughn's life will take place Friday, March 8, 2013 at 1:00 pm, at Piercy's Funeral Home in Courtenay, BC. Donations in lieu of flowers may be made to L'Arche Comox Valley. "As we walk so swiftly o'er the pathway of life we meet many challenges Some pain, some strife, and too happy moments of laughter and mirth. Sometimes a feeling of complete rebirth But everyone strives, be he great or small, for immortality; remembered by all."

Love you, miss you, see you,  
Myrna



**Obituary for Kenneth Harvey "Ken" Hart**

**HART, Ken:**  
**Former Owner of G-Hart & Sons Well Drilling of Fenelon Falls, ON**

Peacefully at Victoria Manor, Lindsay on Monday March 11, 2013. Ken Hart in his 87th year was the beloved husband of Ruth Hart of Fenelon Falls. Dear father of Linda and her husband Eric McNevan of Mississauga, and predeceased by Gail and her husband Murray Beckett. Loving grandfather of Juanita McCoy, Corey Beckett (Mandy) of Orangeville, Shawn McNevan of Mississauga and great grandchildren Andy, Jason and Bridget. Brother of Don Hart of Lindsay, predeceased by Helen Adams and Leo Hart. The family of Mr. Hart will receive friends at JARDINE FUNERAL HOME, CREMATION AND TRIBUTE CENTRE, 8 Princes' St. West, Fenelon Falls on Saturday, March 16, 2013 from 1 p.m. to 4 p.m. Donations may be made to charity of choice. On Line condolences, memorial donations or to light a memorial candle please visit [www.jardinefuneralhome.com](http://www.jardinefuneralhome.com)

# The Tragedy of Lac Mégantic

The Board & Staff of the OGWA would like to extend their sympathy to all the families affected by the recent tragedy in Lac Mégantic, Quebec.

**Our hearts and prayers are with you**

Tragédie au Lac Megantic

Les membres ainsi que les employés de l'OGWA voudraient souhaiter leurs sincères sympathies aux gens qui ont été affectés par la tragédie du Lac Megantic.

**Nos prières sont avec vous tous.**

*The Ontario Ground Water Association's heartfelt sympathies go out to the Hart and Watson families, friends, and colleagues on the passing of Ken Hart. Ken was one of the sons in G. Hart & Sons Well Drilling Ltd., uncle to Clarke Watson and great uncle to Bryan. A long standing member of our association since its inception, Ken was a past president (1970-1971) and an honorary member since his retirement. Ken had a long history of contributions and support for the betterment of the ground water industry and was well respected in the drilling community. We are saddened to lose another valuable member of our ground water community and Ontario Ground Water history.*



**Robert Ronnie VanDenEeckhout**  
1966 – 2013

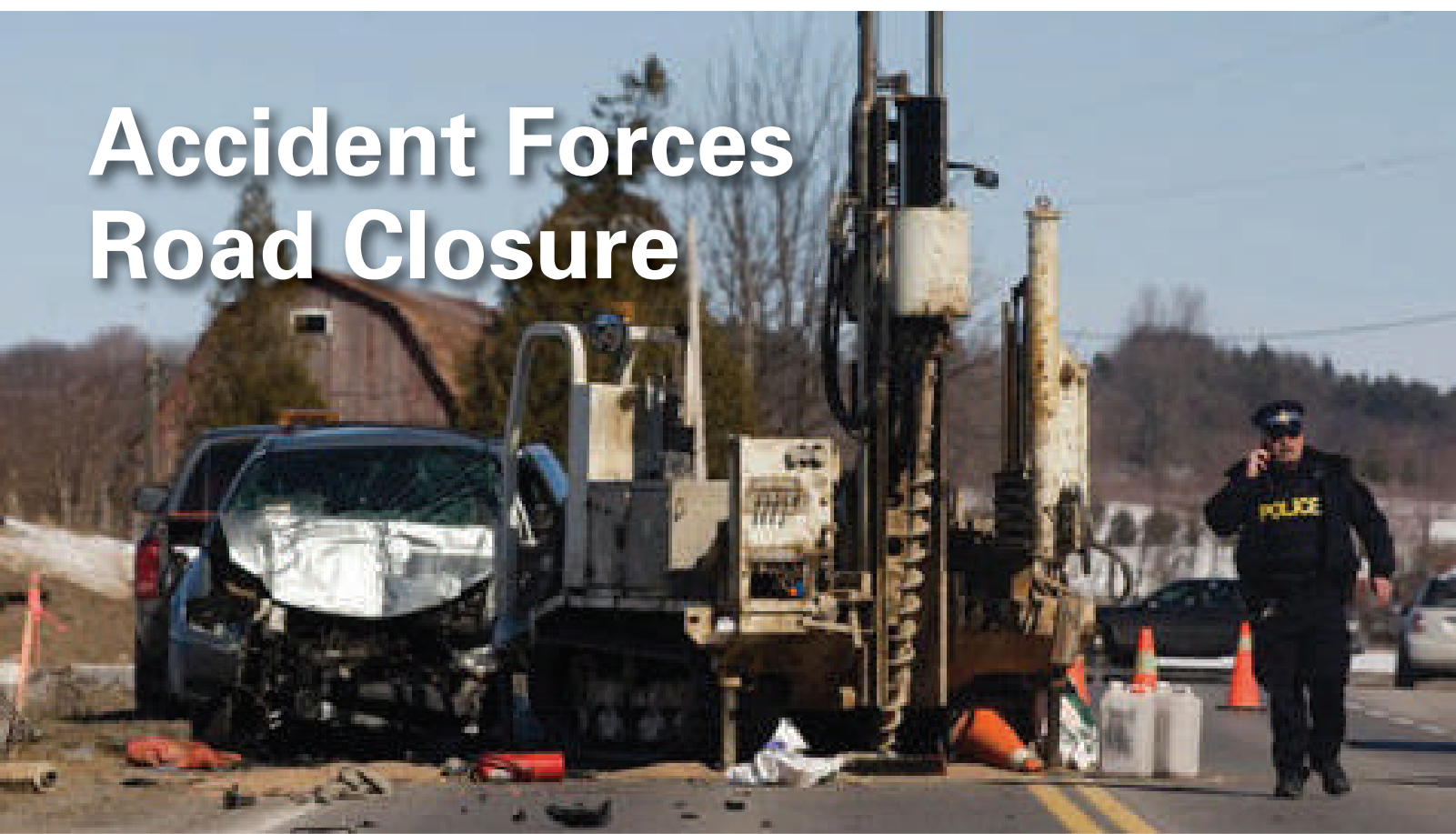
It is with deepest of hearts that we announce the passing of our loving husband and father, Robert Ronnie VanDenEeckhout at the age of 47 years. Suddenly but peacefully surrounded by family and friends. Robert was a devoted husband for 25 years to his wife Doris (Huber). Dearest father to son Steffan and daughter Chelsey both at home. Survived by brother Bill VanDenEeckhout and his wife Tracy and sister Nancy Bridgett (Charlie). Lovingly remembered by nieces, nephews, aunts, uncles, cousins and friends. Predeceased by mother Adrienne (2006), father Camiele (1974) and step-father Bob Todd (2009). Robert was a member of the Tillsonburg Legion Branch # 153 and a devoted hockey dad. He was an avid hunter, fisherman, golfer and overall outdoorsman. Robert was a longtime dedicated employee of Canadian Pipe Supply, Tillsonburg. Friends and relatives will be received at Ostrander's Funeral Home, 43 Bidwell Street, Tillsonburg (519-842-5221) on Wednesday, August 14, 2013 from 2-4 & 7-9 p.m. The Funeral Service for Robert will be held in Ostrander's Chapel on Thursday, August 15, 2013 at 11:00 a.m. Interment in the Straffordville Cemetery will follow. Memorial donations to the Ontario Heart & Stroke Foundation or the Parkinson's Foundation would be appreciated by the family.

Personal condolences can be made at [www.ostrandersonline.com](http://www.ostrandersonline.com)

"We at Canadian Pipe & Pump Supply Ltd., and very saddened to inform the membership of the O.G.W.A. that we have lost a very important friend and colleague. Robert passed away on Saturday morning while vacationing with his family in Port Loring Ont. Robert has been a part of our organisation for the past 12 years and his presence and contributions to this industry will not soon be replaced, nor forgotten. We extend our deepest condolences to his friends and most importantly his wife Doris, and his children Steffan & Chelsey."



# Accident Forces Road Closure



OPP officers were on scene of a fatal motor vehicle collision which resulted in the closure of County Road 2, east of Grafton on GRAFTON - The Reverend Gordon Ficko is dead after his vehicle slammed into a drilling machine east of Grafton on Friday afternoon.

Northumberland OPP say the 93-year-old man was driving westbound when the vehicle struck a drilling machine taking soil samples east of Grafton on County Road 2 by Vernonville Road just after 1 p.m. The man was given CPR, but was pronounced dead on the scene. There were approximately five workers on the scene.

Two workers from AMEC from Scarborough were also injured when the vehicle slammed into the drilling machine. Police say the workers suffered non-life threatening injuries. Northumberland County Director of Transportation and Waste Management Mo Pannu said the company was hired by the county to bore holes approximately every 500 metres taking samples of asphalt to look at the condition of the roadway on a County wide study. They are doing the entire length of County Road 2 and County Road 30 as part of the study.

County Road 2 was closed between Wicklow Beach Road and Thomas Road as

members of the Central Region Technical Traffic Collision Investigation (TTCI) Team conducted their investigation.

The road was clear at the time and police say a post mortem may help determine if a medical condition played a role in the collision.

**By Pete Fisher, Northumberland Today**  
 Monday, March 11, 2013 3:16:11 EDT PM  
[peter.fisher@sunmedia.ca](mailto:peter.fisher@sunmedia.ca)  
[Twitter.com/NT\\_pfisher](https://twitter.com/NT_pfisher)  
[www.northumberlandtoday.com/2013/03/10/accident-forces-road-closure](http://www.northumberlandtoday.com/2013/03/10/accident-forces-road-closure)

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# Announcing Sue Lo's appointment as CDWI May 2013

**Ontario has appointed a new Chief Drinking Water Inspector, Sue Lo.**

A geotechnical engineer, Sue began her public service career at the Ministry of Transportation then moved to the Ministry of Energy as Assistant Deputy Minister of the Renewables and Energy Efficiency Division. There she provided leadership and advice in implementing a portion of the Green Energy and Green Economy Act, and strategic oversight of the Green Energy Investment Agreement.

Now at the Ministry of the Environment as Chief Drinking Water Inspector, Sue also serves as Assistant Deputy Minister of the Drinking Water Management Division.

Ontario's Chief Drinking Water Inspector leads activities to ensure that regulated drinking water systems across the province meet rigorous, health-based standards. The role is appointed under the Safe Drinking Water Act.

**For more information about Ms. Lo or Drinking Water Management Division's programs, please call Kate Jordan, 416 314-6666.**

# REGIONAL MEETING DRAW WINNERS

Gerry Whent Kevin Constable	Region of York Fred Constable & Son Ltd.
Brian Brown	Neil Brown Well Drilling Ltd.

## LINDSAY 2013

## BRADFORD 2013

Mike Minor Neil Brown	Di-Corp Neil Brown Well Drilling Ltd.
Blaine Harris	Jackson Water Conditioning Ltd.
Colin Ross	Azimuth Environmental Consulting
Gavin Wright	Allan Wright Water Wells Inc.
Jason Jackson	Jackson Water Conditioning Ltd.
Allan Wright	Allan Wright Water Wells Inc.
Bruce O'Brien	King City Well Drilling Co. Ltd.
Shaun Depeuter	Ransome Well Drilling
Roger Baker	Ransome Well Drilling
Rick Fox	Region of York

Doug Miles	Herb Lang Well Drilling Ltd.
Clarke Watson	G. Hart & Sons Well Drilling Ltd.
Ken Guthrie	Herb Lang Well Drilling Ltd.
John W. Thomas	G. Hart & Sons Well Drilling Ltd.
Ted Franks	Eades Well Drilling Inc.
Ernest Merkley	Ernmer Construction Ltd.
Todd Kitchen	Kitchen Well Drilling
Chris Woodhead	Woodhead Enterprises
Colin Little	Kavanagh Plumbing
Steve Wilkinson	Fleming College
Paul Conrad	Conrad Well Drilling Ltd.
Larry Alexander	Alexander Well Drilling
Scott Armstrong	D & S Water Well Service Ltd.

*Congratulations!*

# Notice

**TO WELL TECHNICAN LICENCE HOLDERS: OGWA  
REGIONAL TRAINING MEETINGS Fall 2013/Winter 2014**

**First Meeting: November 28, 2013 - 8:30 a.m.  
Walkerton Clean Water Centre, Walkerton, Ontario**

**7 Hours of MOE CEC Credits for Water Well Technician Licence Holders**

## 2014 TRAINING MEETING DATES:

Perth Regional	Tuesday January 7th	North Bay	Monday February 3rd
Lindsay Regional	Wednesday January 8th	Ingersoll Regional	Wednesday February 5th
Bradford Regional	Thursday January 9th	Thunder Bay	To be announced

Locations & the full training agenda will be sent on the OGWA website and sent to members and "not-yet" members by email, fax, mail and printed in the November issue of The Source.

## BUYER'S GUIDE

*Canadian Pipe & Pump Supply Ltd*  
*CETCO*  
*DiCorp*  
*Grundfos*  
*Goulds Water Technology / Xylem*  
*Heron Instruments*

*page 14*  
*page 12*  
*page 2*  
*page 17*  
*page 4*  
*page 29*

*Lackner McLennan Insurance Ltd*  
*M. Beauregard Équipements Inc*  
*Pentair Intellidrive*  
*The Rideau Group Inc*  
*Wellmaster*

*page 36*  
*page 31*  
*page 22*  
*page 10 and 24*  
*page 35*



**ONTARIO GROUND WATER ASSOCIATION  
2013 MEMBERSHIP APPLICATION**

**PAYMENT ARRANGEMENTS DEADLINE: January 15, 2013**

NEW MEMBERSHIP     DO NOT list my company on the OGWA website.  
(Listing = Company Name, Contact Name, Address, City, Province, Postal Code, Phone/Fax Numbers, Web Site, and County. E-mail addresses will not be listed).

MEMBERSHIP RENEWAL: *Fill in company name & only changes to information (contact name, address, technicians, etc.)*

Corporate Website: Authorization to apply a web link to the OGWA website on your corporate website.

Company Name:			<b>+MANDATORY:</b> MOE Contractor Licence #:	
Contact Name:				
Mailing Address: P.O. Box /No. & Street / R.R. #:			Expiry Date:	
City:	Prov:	Postal Code:	County/District (Ontario Only):	
Telephone No.	Cell No (Optional):	Fax. No.:		
E-mail Address:		Website URL:		
Water Treatment Provider: Yes _____	Rig/Equipment: Reverse: Yes _____	Conventional: Yes _____ Cable Tool: Yes _____	Air: Yes _____	Mud: Yes _____ Other (specify):

**+MANDATORY: MOE CONTRACTOR LICENCE # REQUIRED ABOVE FOR ALL QUALIFIED CONTRACTORS**

**\*Geothermal:** Until licencing requirements apply to geothermal drilling we are unable to create a separate division.

The logo of the Ontario Ground Water Association (OGWA) is a registered trademark (TM). Permission for its reproduction is RESTRICTED TO PAID UP MEMBERS ONLY for advertising purposes. Investigation into unauthorized use may result in legal action.

<input checked="" type="checkbox"/>	CHOOSE MEMBERSHIP CATEGORY OR CATEGORIES	FEE (HST Incl)	TO REMIT
	Drilling Contractor <b>*Geothermal Yes _____</b>	\$ 405.00	\$
	Environmental/Geotechnical Drilling Contractor <b>*Geothermal Yes _____</b>	\$ 405.00	\$
	Pump Installer	\$ 405.00	\$
	Manufacturer/Supplier	\$ 405.00	\$
	Ground Water Scientist/Engineer	\$ 405.00	\$
	**Associate Member(s) (see qualifying note Page 2) <b>*Geothermal Yes _____</b> Associate Name(s):	\$ 85.00 ea	\$
	<b>Please Consider Providing a Donation for OGWA Projects &amp; Events</b>	DONATION:	\$

**OPTION 1: MONTHLY PAYMENT \$40.50 + \$1.00 Admin Fee = \$41.50 for 10 Months**

<input type="checkbox"/> A) MONTHLY CREDIT CARD PAYMENTS FOR 10 MONTHS	<input type="checkbox"/> B) MONTHLY AUTOMATIC BANK WITHDRAWAL FOR 10 MONTHS	\$41.50/mo
------------------------------------------------------------------------	-----------------------------------------------------------------------------	------------

<input type="checkbox"/> <b>OPTION 2: FULL MEMBERSHIP PAYMENT plus any DONATION:</b>	\$
--------------------------------------------------------------------------------------	----

{  } Initial here to agree to Annual Automatic Membership Renewal (credit card or bank withdrawal payments only)

**PAYMENT FOR OPTIONS 1 A) or OPTION 2:** Visa/MasterCard/Discover/American Express:

Card #: \_\_\_\_\_ Expiry: \_\_\_\_\_

Name on Card: \_\_\_\_\_ 3 or 4 Digit CVV# \_\_\_\_\_

**PAYMENT FOR OPTION 1 B):** Attach Void Cheque – OR – Provide Printed Information Supplied by Your Bank.

**CHEQUES PAYABLE TO:** Ontario Ground Water Association, 48 Front Street East, Strathroy, ON N7G 1Y6

**THANK YOU!**

**Please complete page 2 (OVER) if applicable...**



## ONTARIO GROUND WATER ASSOCIATION 2013 MEMBERSHIP APPLICATION

When you join the Ontario Ground Water Association as a Corporate Member, your licenced well technicians are automatically eligible for listing in our Membership Directory in the Technicians Division, at no additional cost. Please add extra pages as needed.

**PRINT COMPANY NAME BELOW** (as it appears on Page 1 of this Membership Application):

**Names & MOE Licence Numbers of Licenced Well Technicians employed by my company** (including owner or manager, if applicable) – Renewing members add only new or list changes:

First Name	Last Name	Lic. # (T- #)	Class(es)

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

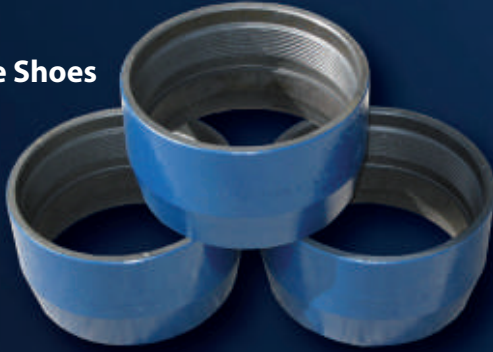
**\*\*ASSOCIATE MEMBERSHIP:** *"OGWA By-Law No.1: Members - 3(f) Associate Division: Associate membership in the Corporation shall include all persons interested in the welfare and success of the Ontario Ground Water Association and the water well drilling industry, other than business, firms, companies and corporations that qualify for membership in the Drillers, Environmental/Geotechnical Drillers, Manufacturers & Suppliers, Ground Water Scientists & Engineers, or Pump Installers divisions\*. The associate division shall have no voting power."*

\*This means if your company can be classified in one of these main membership categories, you are **not** eligible for Associate membership and must remit in the regular membership fee. Associate Memberships are available to persons/employees whose companies are full members.



*Make a Difference.*

**Drive Shoes**

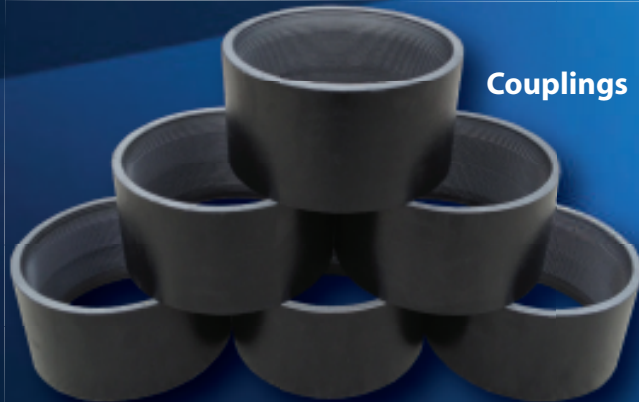


**Delivery**



**Drilling Fluid - Mud or Sand**

**Couplings**



**Pipe (ERW / Seamless)**



**WELLMASTER** Pipe & Supply Inc.

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Fax: (519) 688-0563  
Email: wells@wellmaster.ca  
Web: www.wellmaster.ca

1494 Bell Mill Road, P.O. Box 456,  
Tillsonburg, Ontario, Canada, N4G 4J1  
P.O. Box 2663,  
Buffalo, New York, U.S.A., 14240-2663





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For a free insurance evaluation call Steve at 1-800-265-2625 ext 311

Email: [drillers@lmicanada.com](mailto:drillers@lmicanada.com)

423 King St. N. Waterloo, ON N2J 2Z5

**[www.lmicanada.com](http://www.lmicanada.com)**