

THE PIPELINE

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SWWA

Saskatchewan Water
And Wastewater
Association

Editor:
Bob Turnbull
www.swwa.ca

APRIL 2010

2nd Edition

SWWA Annual Golf Tournament

(Texas Scramble)
Limited Space Available



Saturday, June 5, 2010 in Swift Current, Saskatchewan
Chinook Golf Course
663 – 6th Avenue South East
Registration 9:00 a.m. & Tee-Off Times 11:00 a.m.

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

(GST Registration # R124095159)

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

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

Banquet at the Golf Course

Please make cheques payable to:
Saskatchewan Water and Wastewater Association
Submit this form and your cheque to:
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46 Windfield Road
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Thank you to ClearTech Industries Ltd., sponsor of the tournament beer cart

Accommodations:

Holiday Inn Express - 1301 North Service Road W, Swift Current, SK 306-773-8288
When booking quote Group Block SWW. Reservations booked by May 3 get the group rate.

Camping:

Trail Campground – 701 11th Avenue NW, Swift Current, SK 306-773-8088

Carts will be available for rental on a first come first served basis. Half of a power cart rental \$19 (pay by the seat).

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Waterworks Group

Invite you come out and try your luck at winning a prize in our Hole-In-One contest!
2 prizes of \$4,000 could be won at this year's tournament. See you there!

GOLF TOURNAMENT



MAINSTREAM
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**Contemporary Slow Sand Filter
Operation and Maintenance Workshop**

-Sponsored by Mainstream Water Solutions Inc.-

This one-day seminar is geared towards water treatment plant operations. It will teach the principles of slow sand filtration, and the operation and maintenance of a slow sand treatment system. In addition, it will include reporting and recording of daily WTP records. The class will include a plant visit, an onsite demonstration, and a question and answer segment.

SEATING:	min: 12 max: 15
DATE:	Thursday April 15, 2010
TIME:	8am - 6pm
VENUE:	Aquadeo Community Hall, Aquadeo, SK (½ hour north of North Battleford)
CEU CREDITS:	0.7

To register, please contact:

Jennine Weinrauch
Office Administration Coordinator
Mainstream Water Solutions Inc.
Tel: 306.761.5000
Fax: 306.352.0024
E-mail: lab@mainstreamwater.com

www.mainstreamwater.com

CALL FOR WORKSHOPS 2011 PAPERS

SWWA is planning the 2011 Spring Training Season and is requesting any person who is interested in presenting a one day or partial -day workshop to contact the Training Coordinator. Full day workshops must be between five and seven hours in length, incl. lunch and breaks. Partial-day workshops must be three or four hours in length with a three hour minimum with breaks and may include lunch. Workshop topics must be related to or an enhancement for water treatment, distribution, wastewater treatment and collection.

To be considered by the Executive for inclusion in the training program, please submit a proposal to the Training Coordinator. The proposal must include a workshop abstract, a proposed agenda, method of instruction, speaker biography, training aids provided or required, list of student materials.....

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WHY DID *Randolph J. Antoniuk (Randy)* JOIN THE SWWA ... as a director and now V.P.?

I have been part of the SWWA for the past nine years and decided to get involved for a number of reasons. The organization has always interested me as in how we can help our members become better operators and the industry to work together. I have sat in the room wondering how little old me could help out in a small way. Getting involved is the first step,

listening to others is the next and finally getting things done would be the last part. It has been a part of me to put things into action instead of sitting on the fence and getting mad at how things are working out. My personality and wanting to get to know people from all parts of our country and province makes it a great fit for me.

Moose Jaw WWTP FIRST TO USE BIOLAC WAVE OXIDATION™ Process For Nitrogen Reduction in Canada

Alex Munoz, Dwayne Gelowitz, (Stantec Consulting Ltd), Ryan Johnson (City of Moose Jaw Engineering Department)

The Moose Jaw Wastewater Treatment Plant (WWTP) is the first plant in Canada to use the Biolac Wave Oxidation™ process for BOD and nitrogen reduction. Upgrades to the Moose Jaw WWTP expanded the treatment capacity to 24,000 m³/d thereby accommodating increased industrial and municipal wastewater contributions. It will also provide treated water to the neighboring Baildon Region as part of an agreement through which about 50% of the treated effluent is reused for irrigation.

The decision to upgrade and expand the existing lagoon based wastewater treatment plant and incorporate the Biolac Wave Oxidation™ process was influenced by several factors including the introduction of new regulatory requirements, the need to protect Moose Jaw River aquatic life, future expansion capabilities, lagoon's aeration equipment reaching the end of its service life, hydraulic constraints and a limited capital budget.

The Biolac Wave Oxidation™ is a proprietary process that combines long solids retention times with alternating multiple stages of aerobic and anoxic conditions. This process allows for biological nitrification and denitrification to occur in time rather than in space by using timers to cycle the air flow to bundles of aeration chains.

Following Environment Canada's pollution prevention planning for chlorine and ammonia guidelines, Saskatchewan Environment requested the City of Moose Jaw reduce its chlorine and ammonia

contribution to the Moose Jaw River to less than 0.02 mg/L and 7.1 mg/L, respectively. The City of Moose Jaw was planning for upgrades and expansions to its wastewater infrastructure and planners wanted to ensure they were making prudent decisions that reflected the evolving regulatory environment. Stantec Consulting Ltd was retained with the objective to develop a wastewater master plan for the City to examine emerging wastewater regulatory trends and develop a proactive strategy for infrastructure upgrades that would allow the City to anticipate and plan for future regulatory requirements.

The Moose Jaw WWTP faced several treatment challenges given the variable contributions from industrial sources. Although the industrial sector in Moose Jaw accounts for 20% of the water use, the variable operation of the meat and pork packing plants when they are in operation causes adverse fluctuations in wastewater strength that other cities in Saskatchewan do not experience. These conditions include higher levels of organic carbon, nitrogen and phosphorus loads, elevated concentrations of fat, oil, and grease, and occasional odor episodes.

The facility also faced infrastructure challenges including the deterioration of the existing aeration equipment in the aerated lagoons: air headers are corroding, leaking, and a significant number of diffusers are inoperable. In addition, the current wastewater organic loads overwhelm the aeration capacity of the system. Consequently, the treatment cells are releasing noxious odours and the storage cells are being used for treatment. Furthermore, sludge accumulation up to 1.0 m in the treatment cells has encroached into the aeration system, significantly reducing the treatment capacity of the cells.

continued on page 4

continued from page 3

Another challenge was the need to maximize the volumes of treated effluent used for irrigation of the Baildon Region. Irrigation effluent reuse accounts for approximately 3,000,000 m³ per year. However, the volume of water reused for irrigation varies significantly between 1,000,000 and 4,100,000 m³ per year depending on climatic conditions. Consequently, the plant intermittently discharges treated effluent to the Moose Jaw River in early spring or late fall.

Furthermore, hydraulic constraints limited the headloss available between the existing headworks building and irrigation storage cells to less than 2.6 m. In order to fit the bioreactors, clarifiers, and structures within the limited headloss available, connection pipes were oversized and mixing for alum dispersion was provided using a pressurized water jet.

In 2005, the City of Moose Jaw worked with Stantec Consulting Ltd. to conduct an assessment comparing several wastewater treatment options, which included conventional activated sludge and biological nutrient removal processes. The results of the assessment showed that a treatment process train consisting of fine screening, grit removal, biological nitrogen removal using Biolac Wave Oxidation™ combined with chemical precipitation of phosphorus, sedimentation, and ultraviolet (UV) disinfection offered the best value to the City. This solution provided the most consistent performance, high quality effluent, and the greatest flexibility to handle additional loading from any industrial expansion. It also had the most favorable life-cycle costs.

The plant is now running and will be completely commissioned in the Spring.



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Who I am

When at the last board meeting it was discussed that more info should be in the pipeline and that the members may like to know their board better so it was decided that each would write a short piece on themselves and here is the first instalment.

MILTON WOOD

My name is Milton Wood I have been in the industry only eight short years, working for community of about 1000 people so we look after the wells to the lagoon, in those years there has been a lot of changes with a lot more awareness of your responsibility.

I very much enjoy what I do and take pride in service we provide to the people, which are unnoticed by most until water doesn't come out the tap or wastewater down the drain. Being on the SWWA board I hope to serve the members from the small were you do all aspects of the industry to the large specialized workers, with programs to make your jobs easier and keep you more informed about your industry.

Have a great day always!



Don Ball

Sales and Service Representative

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Municipal Wastewater Piping System Maintenance

This one-day workshop is of particular interest to operators working in wastewater collection. The workshop will discuss application, operation & maintenance of sewer snakes, cameras and line-locate equipment. Operators have class-room hands-on experience performing camera inspections, line location, taking readings and making evaluations. A four hour workshop.

WORKSHOP REGISTRATION FORM

Municipal Wastewater Piping System Maintenance (0.4 CEU) - Class Size: Minimum 20, Maximum 40

- | | |
|---|--|
| <input type="checkbox"/> May 11, 2010, Outlook
Location: Outlook Civic Centre
520 Semple Street | Sign In Time: 8:30 a.m. – 9:00 a.m.
Start Time: 9:00 a.m.
End Time: 2:30 p.m. |
| <input type="checkbox"/> May 12, 2010 – Weyburn
Location: Fire Hall Workshop
55 – 16th Street | Sign In Time: 8:30 a.m. – 9:00 a.m.
Start Time: 9:00 a.m.
End Time: 2:30 p.m. |

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: April 27 & April 28, 2010, two (2) weeks prior to dates of workshops. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Member Price: \$75.00 plus \$3.75 GST - \$78.75 _____

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

2010 Membership + Member Price: \$115.00 plus \$5.75 GST – \$120.75 _____

Complete the following IF you are purchasing a 2010 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

Drinking Water Reservoir – Design, Operation & Maintenance

This one-day workshop will provide water operators with enhanced knowledge of potable water reservoir design, as well as provide an overview of water quality regulations and monitoring techniques. The unique problems associated with water storage will be covered in detail, along with preventative measures and methods of reservoir disinfection and cleaning. Daily reservoir operations, with attention to seasonal changes, will also be discussed.
A five hour workshop.

WORKSHOP REGISTRATION FORM

Drinking Water Reservoir – Design, Operation & Maintenance (0.5 CEU) - Class Size: Min. 15 Max. 25. Lunch Included

May 19 – Saskatoon

**Location: Saskatoon Water Treatment Plant
1030 Avenue H South**

Sign In Time: 8:30 a.m.

Start Time: 9:00 a.m.

End Time: 4:00 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: May 5, 2010, two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

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

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

2010 Membership + Member Price: \$120.00 plus \$6.00 GST – \$126.00 _____

Complete the following IF you are purchasing a 2010 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

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46 Windfield Road
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Groundwater Issues in Saskatchewan

This one day workshop will focus primarily on groundwater exploration, development and potential treatment modifications related to surface water influences. The intention is to provide operators with case studies related to how groundwater supplies for municipalities are developed, then move towards discussing existing problems associated with groundwater supply (i.e production problems, groundwater under the influence issues) before finally looking at well maintenance options and design alternatives at the treatment plant.

WORKSHOP REGISTRATION FORM

Ground Water Issues in Saskatchewan (0.5 CEU) - Class Size: 40, Lunch Included

June 4 – Swift Current

Location: Credit Union iPlex
2001 Chaplin St. East

Sign In Time: 8:00 a.m. – 8:30 a.m.

Start Time: 8:30 a.m.

End Time: 4:15 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ **Postal Code:** _____

Work Phone: _____ **Home Phone:** _____

Deadline for workshop registration: May 21, 2010, two (2) weeks prior to date of workshop. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshop.

Per Workshop Cost:

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

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

2010 Membership + Member Price: \$120.00 plus \$6.00 GST – \$126.00 _____

Complete the following IF you are purchasing a 2010 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

Hydrant Operation & Maintenance Workshop

Operators will learn about the design, operation and maintenance of a variety of fire hydrants, especially the **McAvity fire hydrants**. You will learn about the AWWA hydrant design and operation criteria and will learn to establish a proper hydrant maintenance program. The afternoon portion of the workshop will allow you to put into practice what was learned in the morning by taking hydrants (incl. a **McAvity fire hydrant**) apart, performing needed repairs or maintenance and reassembling the hydrants and putting them back into service in the instructors' presence. This will take place at a number of city street locations. 0.7 CEU

WORKSHOP REGISTRATION FORM

Hydrant Operation & Maintenance (0.7 CEU) - Class Size: Minimum 12 Maximum 18, Lunch Included

May 4, 2010 – Yorkton
Location: Gallagher Centre
455 Broadway Street West
Sign In Time: 8:00 a.m. – 8:30 a.m.
Start Time: 8:30 a.m.
End Time: 4:30 p.m.

May 6, 2010 – North Battleford
Location: Don Ross Centre, Room #107
891 – 99th Street
Sign In Time: 8:00 a.m. – 8:30 a.m.
Start Time: 8:30 a.m.
End Time: 4:30 p.m.

Name: _____

Street Address/Box Number: _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Deadline for workshop registration: April 20, 2010, two (2) weeks prior to date of workshops. All workshop attendees must pre-register and pre-pay. No walk-up registrations allowed and no cheques are to be submitted at the workshops.

Per Workshop Cost:

Member Price: \$100.00 plus \$5.00 GST - \$105.00 _____

Non-Member Price: \$150.00 plus \$7.50 GST - \$157.50 _____

2010 Membership + Member Price: \$140.00 plus \$7.00 GST – \$147.00 _____

Complete the following **IF** you are purchasing a 2010 Membership AND attending the workshop as a member.

Work Fax: _____

Employer: _____

Position/Title: _____

Signature: _____

Submit this form and your cheque made payable to:

Saskatchewan Water and Wastewater Association
46 Windfield Road
REGINA SK S4V 0E7

MEET YOUR PRESIDENT ... SUSAN DOBROWNEY

My home position is a utility operator at the Water Treatment Plant in Saskatoon. This means that I operate the plant every other Sunday night and then spend the remainder of my time on process optimization and inventory. Currently I am in a one year temporary position as “operator in training coordinator” delivering and facilitating specialized training for operations staff.


I have worked for the Utility Services department for 16 years with approximately half of my time spent between water treatment and wastewater treatment. I was a chemical technician when I started in the plant as a temporary building and grounds labourer; I have since upgraded and now have a diploma designation. I was able to do this whilst still working with support from my employer.

I had not considered this field as a possibility in fact I hadn't very little knowledge about the water and wastewater industry at all. This was a summer opportunity and I was going back to school in the fall to finish my mechanical engineering diploma. However I found the job

although very physically enjoyable and stimulating. I was offered an extension to my temporary building and grounds position and have continued to find this industry rewarding and engaging.

My work day is very varied from meetings with potential educators, teaching courses, facilitating workshops, webinars and training opportunities. I also have to work with managers and other principles to implement strategies and competencies to fulfill our permit to operate requirements, operator certification board requirements for operator certification and other legal and legislative issues.

I have been fortunate and have had a variety of opportunities in my work environment. I have worked in buildings and grounds, maintenance, operations and in the laboratory at both water and wastewater treatment plants. My colleagues have been very knowledgeable and willing to share their expertise with me.



AARON ERICKSON
SWWA Sr. Supplier Rep

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To: City and Town Maintenance Foreman.

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5. Tag each fire hydrant
6. Inspection report on each hydrant

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In the event that a fire hydrant is damaged and/or faulty, we will provide you a pricing and labour quotation for the repair.

For many insurance policies, it is very important to maintain your fire hydrants in reliable working order.

If you require further information, please do not hesitate to call us at:

Emco Waterworks/ Sandale Utility Products
Saskatoon , SK
(306) 343-3626.


Ask for Darryl Servetnyk or Philip Ashurst.



WATERWORKS
37410 Yellowhead Road, Saskatoon, Saskatchewan S7K 3J7

George Tisserand
BRANCH SUPERVISOR
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