



Maritime Provinces Water & Wastewater REPORT

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MESSAGE FROM THE CHAIR

BY JERRY VILLARD

Fall is upon us and winter is just around the corner! Hope everyone enjoyed the summer, had some vacation time and is ready for fall maintenance programs. This will likely be a busy season for many of you with the latest round of federal infrastructure funding out for projects.

This year the MPWWA is looking at revamping and updating our training program. We're looking for ideas and suggestions from all members as to how we can improve the workshops, locations of workshops (especially free meeting space) and items you would like to see more training on. Feel free to contact myself, your zone director or Clara at the office if you have anything you would like to contribute.

We're also looking for anyone who would be interested in facilitating or presenting workshops to members. We plan to create a list of requested workshops, the areas those requests come from, and presenters so we can have fewer cancellations of planned workshops when they're offered.

The MPWWA has gotten into a "routine" of offering workshops only in the spring and fall, but traditionally we offered workshops all year long, except during Annual Training Seminar month. We're going back to this format since it gives more opportunities for operators to attend. Stay tuned as we'll have more information going out after our fall meeting and in future issues of the MPWWR.

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Les Standen, chair of the North Rustico Water and Sewer Committee, holds up a glass of clear effluent from the town's wastewater facility. *Submitted photo*

North Rustico proud of its wastewater system

P.E.I. town known across Canada for having crystal clear effluent

BY ANDY WALKER

Les Standen says there's a reason North Rustico's effluent – or treated wastewater – is famous across Canada.

"That's high-quality effluent; you would think it was drinking water," says Standen, who has chaired the town's water and sewer committee for 14 years. "There isn't a place on the east coast with the quality effluent we have."

It wasn't always this way. The previous wastewater plant was at capacity and couldn't keep up with demand.

"We couldn't issue anymore building permits. We had to do something so we could expand and grow as a community, but we also

had to do it from an elevation standpoint," he says.

Then, in December 2010, a storm surge left about 100 of the town's residents without water and sewer. The town's old, vulnerable pumping station located on the harbourfront shut down from the loss of power.

"Higher sea levels and tidal surges are an unfortunate reality," Standen says. "The problem wasn't going to go away."

With the provincial and federal government providing two-thirds of the funding, North Rustico built a new water treatment plant in 2011. Then, in 2014, it built a \$2.7 million state-of-the-art wastewater treatment plant on one of the highest lots in town. The two water and wastewater projects together cost a

total of \$4 million.

"We couldn't have afforded to do water and sewer without government assistance; it's just too small a community," Standen says. "We took a negative situation and made it a catalyst for change. When it comes to vital services like sewer and water you have to protect the community."

The town also took advantage of money under the Clean Water and Wastewater Fund in 2016 and this year. In 2016, there was a \$245,884.39 project shared between the three levels of government to the replace the sanitary sewer system on Harbourview Drive. This year, the fund was used to finance a \$237,480 extension to the Winter Street water main.

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MESSAGE FROM THE CHAIR

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Cette année le MPWWA cherche à re-fonte/mise à jour de notre programme de formation et sont à la recherche

d'idées/suggestions de tous les membres, quant à comment nous pouvons améliorer les ateliers, lieux d'ateliers (espace de rencontre gratuit en particulier) et les éléments que vous souhaitez voir plus formation sur. S'il vous plaît n'hésitez pas à me contacter, votre directeur de Zone ou Clara au bureau si vous avez quoi que ce soit, vous souhaitez contribuer.

Nous recherchons également pour tous ceux qui seraient intéressés de faciliter/présenter des ateliers aux membres. Nous avons l'intention de créer une liste d'atelier demandée, zones requêtes proviennent et présentateurs afin que nous puissions avoir des annulations moins de prévu ateliers lorsqu'ils sont offerts.

Le MPWWA a mis dans une « routine » d'offrir des ateliers seulement au printemps et en automne, mais traditionnellement, nous avons offert des ateliers tout au long de l'année, sauf pendant le mois du séminaire annuel de formation et se rendra retour à ce format car il donne plus de possibilités pour les opérateurs pour y assister. Restez à l'écoute que nous au-

rons plus d'informations aller après notre réunion d'automne et à l'avenir les questions de le MPWWR.

The board is busy working on the 2018 Annual Training Seminar, being held in Charlottetown, P.E.I. from April 22 to 25 at the Prince Edward Island Convention Centre. We hope to see as many of you there as possible. Start putting the "bug" in your manager's ear so they can budget for it!

Believe it or not, we're actually reviewing proposals for the 2021 seminar. With meeting space requests rising, the hotels are requesting we book four years ahead. Once again, we're looking for presentation abstracts from anyone that may wish to facilitate a workshop. If it isn't used as part of this seminar, it will be passed on to the seminar chair for the following year.

I would like to thank everyone that attends our seminar and gets to the workshops that are offered. It's because of the great participation from delegates during the workshops that many of the presenters ask to be put on the list for future seminars.

Again, it seems like we're pushing training, but it's the mandate of the MPWWA to facilitate getting the operators, workshops and presenters together so we can all keep ourselves relevant to the ever-changing technology, products and processes we encounter every day. Take the time to make your employers aware that the investment they make to allow you to keep up on these comes back to them in savings, efficiencies and skills that benefit the community they service. It is no different than them investing in computer software or equipment required to do the job.

In closing, I hope everyone has a safe fall and winter, both on the job and off. Take some time to consider what's being put forward. The board members would like to hear from as many of you as possible, with ideas, suggestions or questions. Feel free to give us a call, drop us a line or leave comments at our website (mpwwa.ca). This will be the last MPWWR issue for 2017, so enjoy the holidays with family and friends and we'll touch base in 2018.

North Rustico proud of its wastewater system

Continued from page 1

Standen, a retired Ontario banker, moved to North Rustico with his wife after falling in love with the place on vacation in 2000. He's spent most of the years since

moving to the Island on water and sewer issues.

The community now has a long-range plan for infrastructure that will allow it to continue to grow and be serviced properly.

As for the wastewater plant, it takes flow from 300 buildings and turns it into crystal clear effluent, some of the cleanest on the east coast, before it flows back into Rustico Harbour. It could be said it's the crown jewel of the community – at

least Standen thinks so.

"We're known across Canada for this plant," he says. "It just shows what can be accomplished when government and communities cooperate and collaborate to make big things happen."

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Level 2 Wastewater Operator Bruce Slovitt works in his office at Saint John Water.

Contributed photo

Keeping the wastewater flow going

Operator Bruce Slovitt looks back over his 38 years at Saint John Water

BY KATHY JOHNSON

For 38 years, Level 2 Wastewater Operator Bruce Slovitt has been helping to keep the wastewaters flowing for Saint John Water.

“I like to think we’re having a positive impact on the environment,” says Slovitt, who leads a crew of five who repair and maintain the 60-plus wastewater pumping stations in the City of Saint John. “They go around and do the maintenance and make me look good,” he jokes. “What we do is fix pumps. We do what we have to do to get the job done.”

Over the years there were many changes in wastewater management, as well as the Saint John wastewater system, Slovitt says.

“We’ve come a long way from not having a SCADA (Supervisory Control and Data Acquisition control system) to having a SCADA. All are good steps in the right direction.”

With SCADA, notification of a malfunction in the system is instantaneous via computer and phone, Slovitt says, allowing crews to respond immediately to

fix the problem.

The completion of the Saint John’s Harbour Clean-Up project in 2014 brought a lot of new wastewater pumping stations to the city’s collection and treatment system, and eliminated all outfalls of untreated sewage into the harbour.

A lifelong resident of Saint John, Slovitt has been a member of the Maritime Provinces Water and Wastewater Association (MPWWA) for 15 years and often takes advantage of the networking and learning opportunities at the association’s annual conference.

“It’s nice to get to meet your peers and discuss ideas and find out new things,” he says.

While retirement is on the horizon at some point, Slovitt says he hasn’t made any plans yet.

“I’m playing it year by year,” he says.

Like any job, working as a wastewater operator has had “its ups and downs, like anything else,” Slovitt says. “I like what I do,” which these days includes administrative tasks, such as payroll, ordering parts and looking after contractors.

“I like to think we’re having a positive impact on the environment.”

**BRUCE SLOVITT,
LEVEL 2 WASTEWATER OPERATOR,
SAINT JOHN WATER**

Tignish investing in wastewater upgrades

CONTRIBUTED

For the Town of Tignish, an investment in better wastewater processing is a big step toward environmental sustainability.

With the help of the Canada Water and Wastewater Fund (CWWF), Prince Edward Island’s northernmost major community is improving wastewater handling by

building a new lagoon, renovating the existing treatment cell and installing new facilities, including ultraviolet disinfection, to enhance the quality of effluent leaving the plant.

“The work is going on right now,” says Chancey Gaudette, chief administrative officer of Tignish. “The new lagoon is going to add a lot of capacity. In the

past we ran into situations where we were overloaded.”

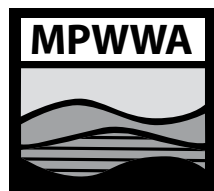
Earlier this year, town officials told a public meeting the existing lagoon was deteriorating and exceeding its capacity. The town faced not being able to approve future building permits without upgrading and expanding its wastewater processing.

The upgrades to the Tignish sewage treat-

ment plant are budgeted at \$1.5 million.

“Honestly, without the cost sharing, there’s no way we could take on this project,” Gaudette says. “It’s very important, but we don’t have the size to be able to pay for this work on our own.”

The work will be carried out on a 24-acre parcel of land near the corner of Church Street and Chaisson Road.



Maritime Provinces Water & Wastewater

REPORT

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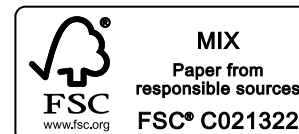
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Acting as judges during the water quality tasting event at the Atlantic Canada Water and Wastewater Association's annual meeting in Charlottetown were (from the left) Chef Allan Williams, Chef Michael Bryanton, Mike (Hogie) Hogan of Upstreet Brewing, and Bob Lawrence of P.E.I. Brewing Company.

Submitted photo

Water utilities serve quality by the glass

Annual meeting of the ACWWA attracts more than 300 industry representatives

SUBMITTED

Water quality is both a complicated job and a sacred public trust for the members of the Atlantic Canada Water and Wastewater Association (ACWWA). The ACWWA meeting this October in Charlottetown brought together 300 water experts from across the region.

"This conference lets the operators of water services come together to share learning, discover best practices and discuss how we can better do our jobs and serve the public," says Richard MacEwen, manager of the Charlottetown water and sewer utility and 2017 ACWWA conference chair. He says there's ongoing interest in sourcing water sustainably, in purifying it reliably and in treating

"...the public has high expectations for water quality and safety - and it's our job to make sure those expectations are met."

KEVIN BERGSCHNEIDER, VICE PRESIDENT,
AMERICAN WATER WORKS ASSOCIATION

wastewater effectively.

"The kind of work we have had to do has been greatly helped by the provincial and federal government," says MacEwen, whose utility provides water and wastewater services to 10,000 Charlottetown customers. "The city really appreciates the

shared funding for these projects."


A lighter-hearted event at the multi-day conference was the annual drinking water taste test, which saw food and beverage experts evaluate blind samples of municipal water to determine which community produced Atlantic Canada's best. The winner was the city of Halifax, followed by Miramichi and Saint John. Judges were Mike Hogan of Upstreet Craft Brewing; Bob Lawrence of the Prince Edward Island Brewing Company; Chef Allan Williams of Canada's Smartest Kitchen; and Chef Michael Bryanton, who has 30 years of experience in culinary and food production.

Events like the water tasting are a good reminder the public looks for reliability and quality in its water and wastewater systems, says visiting delegate Kevin Berg-

schneider, vice president of the American Water Works Association.

"If you look at some of the water conditions people deal with in the developing world, and the repercussions of those conditions, you can see how good we have it in North America," Bergschneider says. "People here may seem like they take water for granted, but the public has high expectations for water quality and safety - and it's our job to make sure those expectations are met."

The Prince Edward Island government supports local water and wastewater services through the federal-provincial Clean Water and Wastewater Fund. The fund recently announced nearly \$30 million for water and wastewater upgrades in 26 Island communities.



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New Brunswick releases draft water strategy

Protecting water and their ecosystems key objectives of new proposed strategy

CONTRIBUTED

New Brunswick has developed a draft water strategy based on input from stakeholders, the public and First Nations. Once it is finalized, the provincial strategy will guide the government in further protecting and managing water.

“A strategy is needed so that the challenges associated with the management and use of water can be addressed in a comprehensive and integrated manner,” says Environment and Local Government Minister Serge Rousselle. “The main objective of the process from the start was to hear the views of New Brunswickers on how the government can improve and plan for the future and we want New Brunswickers input.”

This long-term strategy will provide a foundation for the protection and management of water resources in a sustainable way and will define the main water-related priorities of government over the 10-year life of the strategy through 26 key actions. The main goals of the strategy are:

“A strategy is needed so that the challenges associated with the management and use of water can be addressed in a comprehensive and integrated manner.”

**SERGE ROUSSELLE, MINISTER,
ENVIRONMENT AND LOCAL GOVERNMENT**

- understanding and sharing knowledge about water;
- protecting drinking water;
- protecting ecosystem health;
- work cooperatively on water protection and management; and
- reporting progress on strategy implementation.

During the engagement process, the Water Classification Regulation under the

Clean Water Act was frequently raised as a concern. That is why, in October 2016, the Department of Environment and Local Government established a technical working group to look at this issue in depth while the overall draft water strategy was being developed. The working group includes members of watershed groups, non-governmental organizations, industry, First Nations, regional service commissions and departmental staff.

“Over the past months, the technical working group has met regularly and has worked diligently on this aspect,” Rousselle says. “I expect their final recommendations in the coming months.”

The draft water strategy is available online. Comments will be received until Nov. 20. All comments on the draft will be considered and may be submitted by email to: waterstrategy-strategiedeleau@gnb.ca or by mail to: Department of Environment and Local Government, Policy and Planning Division, P.O. Box 6000, Fredericton, N.B., E3B 5H1.





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Shediac, Pointe-du-Chêne, Parlee Beach getting infrastructure upgrades

Parlee Beach getting \$3 million in upgrades, while a further \$1.6 million planned for Shediac, Pointe-du-Chêne

CONTRIBUTED

With preliminary work completed, construction on two projects to upgrade wastewater infrastructure begin this fall in Shediac and Pointe-du-Chêne. The work, valued at about \$1.68 million, is meant to ensure better protection of the environment and public health.

"Investments in wastewater treatment infrastructure are essential to maintaining clean waterways and a healthy environment," says Environment and Local Government Minister Serge Rousselle.

The projects in Shediac include the renewal of a lift station on Wayne Street and the addition of a standby generator. Other standby generators will be installed at lift stations on Pleasant Street, Paturol Street and Pussyfoot Lane. In Pointe-du-Chêne, work includes upgrades to the lift station on Jarvis Street and the renewal of 455 metres of sanitary sewer and six manholes along St. John Street.

These projects are funded by the Gas Tax Fund and the Clean Water and Wastewater Fund. Work will be performed by the Greater Shediac Sewerage Commission.

"We're pleased to see these important investments allocated to our wastewater systems so we can continue to serve our residents with updated infrastructure that will contribute to a safe and clean environment," says Joey Frenette, the commission's general manager.

Many of the other projects announced by the provincial government in May to help address water quality issues at Parlee Beach and Murray Beach are well underway or completed.

"Public safety is our number one concern and we un-

derstand that Parlee Beach is a major tourism draw for New Brunswick, one of North America's finest beaches, and [we're] working hard to get things done in a timely manner," Rousselle says. "A lot of groundwork has been done, but there's no silver bullet solution to fixing this issue in the immediate future, so we all need to work together on this. We're proud of the work accomplished so far and we will continue to build on this progress in order to address the water quality issues."

Projects already completed at Parlee Beach include:

- The installation of a rain gauge and near real-time data logger. A rain gauge was also installed at Murray Beach.
- An education campaign about responsible dog ownership began in May and is ongoing. Waste bins, bag dispensers and signage have been placed. Flyers are also being distributed.
- Upgrades to the Murray Beach sewage lagoon have begun. A nutrient infuser was installed. An ultraviolet purifier, as well as the backup generator, are the final two pieces.
- The independent ground survey to delineate wetlands is underway. Delineation of a large section of wetland along the Pointe-du-Chêne Road and in Parlee Beach Provincial Park has been completed and a map is now online.
- Construction on the Parlee Beach Provincial Park sewage system began this fall. A detailed engineering assessment is complete and the Department of Transportation and Infrastructure handling the design and tendering.
- Equipment to upgrade the pump stations at both marinas should be online soon.

• The inventory of private septic systems is underway and results should be released soon.

• The Department of Tourism, Heritage and Culture is working with Transport Canada on establishing a boater exclusion zone in accordance with the federal Navigation Protection Act. A meeting with stakeholders was held on Aug. 11. The installation of buoys farther from the swimming area is expected to be completed next year.

All other related studies have started and progress updates are available online.

All scientific work will be completed within the next few months and will then be used by the steering committee to make recommendations to the government by early 2018.

In April, the government announced measures to improve water quality monitoring, in accordance with the Guidelines for Canadian Recreational Water Quality, and to improve communication with the public. Water quality test results are posted online daily.

In May, the government announced about \$3 million in investments in strategic infrastructure and studies to support water quality improvements at Parlee Beach. It also declared the Parlee Beach watershed a unique feature of the environment under the environmental impact assessment regulation. The declaration means developments that could affect water quality at Parlee Beach now require an automatic review by the Department of Environment and Local Government to determine whether an environmental impact assessment is required. To date, there have been 37 new projects screened, with one requiring an assessment.

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Major water upgrade under way in Kinkora

System from 1960s was causing blockages, headaches for homeowners

CONTRIBUTED

Construction has begun on an upgrade to the wastewater system in the central P.E.I. community of Kinkora.

The community of 300-plus residents is getting some 800 metres of new sewer mains and 750 metres of storm main, which will transform its capacity to safely handle wastewater from homes and businesses. At the same time, the community can now better disperse rain and melting snow with its new stormwater system.

Community chair Patrick Duffy says many residents were complaining about the 1965-era system, which had reached the end of its life span and was causing blockages in many homes.

“A lot of our work was doing maintenance and trying to manage problems in a system that wasn’t up to the job anymore.”

PATRICK DUFFY, COMMUNITY CHAIR

Newly built duplexes and triplexes for seniors added to the strain on the wastewater system.

“A lot of our work was doing maintenance and trying to manage problems in a system that wasn’t up to the job anymore,” Duffy says. “We had a scan of it carried out, and it was clear the sewer system just couldn’t be kept going.”

Under the Clean Water and Wastewa-



ter Fund (CWWF), the federal government contributed \$669,000, the province contributed \$335,000, and Kinkora itself contributed \$335,000 to a project worth \$1.34 million.

The water and wastewater work also allowed for new curbs and sidewalks to be built throughout Kinkora, extending to its eastern limits, making roads wider and traveling safer for people walking

the community’s streets.

Duffy says the funding from both governments – the CWWF support paired with a provincial HST rebate – allowed the project to proceed.

“It needed to happen, but it couldn’t have been done if we were paying \$1.4 million for it,” Duffy says. “Those programs allowed us to work with contractors to get this work done.”

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NL Water Briefs

- Pasadena is receiving cost-shared funding of more than \$1,056,000 for its storm sewer project;
- Phillips Head is receiving cost-shared funding of more than \$261,956 for water line repairs;
- Port au Port West-Aguathuna-Felix Cove is receiving cost-shared funding of more than \$167,290 for phase four of its waterline replacement;
- Port Blandford is receiving cost-shared funding of more than \$495,000 for water pumping system improvements;
- Portugal Cove South is receiving cost-shared funding of more than \$364,541 for water main extension;
- Rigolet is receiving cost-shared funding of more than \$506,000 for upgrades to the water system intake;
- Salmon Cove is receiving cost-shared funding of more than \$660,000 for water and sewer installations;
- Shoe Cove (Notre Dame Bay) is receiving cost-shared funding of more than \$165,000 for a water treatment system;
- South Brook (Hall's Bay) is receiving cost-shared funding of more than \$176,024 for a sewage lift station retrofit;



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Sackville's wastewater upgrades will address flooding issues

Climate change cited as major factor causing increased water levels, storm surges

BY JOAN LEBLANC

It seems Mother Nature is throwing around a lot of water these days, with climate change issues causing difficulties for lots of people, everywhere. And that's a problem, particularly for municipalities such as Sackville, New Brunswick, which lives with the regular ebb and flow of tides.

In early 2017 work began on the first of two phases of a stormwater mitigation project that will see the total reconstruction of Lorne Street, the area most affected by tidal issues and excessive stormwater run-off, resulting in regular episodes of flooding.

Funded through the Clean Water and Wastewater Fund, the project will cost the municipality about \$2 million. Added to that is the federal government portion of 50 per cent and the provincial government's 25 per cent, for a total cost of \$8.3 million. The entire project is being designed and overseen by Crandall Engineering Ltd. of Moncton.

"What we're dealing with, it's a combination of a bunch of factors... all of the water that flows down the hill (within the town) collects at Lorne Street, which is at the bottom of the hill," says Dwayne Acton, town engineer. "With all that water, we also have aging infrastructure, some from as far back as the 1930s and some from the 1970s, that's not working properly. It isn't adequately sized to handle climate change and the amount of water that comes at us.

"On top of all that, it has to work its way through open ditches that haven't been maintained, out into undersized aboiteaux out in the marsh constructed back in the 1950s, which also aren't working properly."

Acton says that due to the size of the project, phase one was broken into two contracts. The first is currently under construction and expected to be finished by late October. This portion, being completed by Bowser Construction Ltd. of Sackville, includes total renewal of water, wastewater and stormwater mains, as well as installation of new road surface, curbs and sidewalks from and including, Lorne Street to Queen's Road.

Dexter Construction, in conjunction with Beal & Inch Construction of Sackville, is currently working on the second part of phase one. The contractors have opted to replace ancient six-inch ductile iron pipes with 12-inch DR18 PVC water mains, while concrete wastewater and stormwater mains are also being used throughout the town.

"This portion of the first phase is basically a trunk renewal from Lorne to Charles Street and the water and sewer renewal on St. James for about two thirds of the street. Because we're tearing it up with the new trunk line, we're renewing the sewer on St. James up to Bennett

"We also rely heavily on the aboiteaux structures, located in the marshlands, that were constructed in the 1950s and 60s, to get the stormwater out."

DWAYNE ACTON, TOWN ENGINEER, SACKVILLE, N.B.



Sackville is currently working on its stormwater mitigation project, which will see the replacement of water, wastewater and stormwater mains in portions of the lowest elevation areas of the community. Here, crews work on a section of roadway, removing old iron pipes to install new PVC and concrete mains.

Joan LeBlanc photo

Street," Acton says.

Sackville accesses the water supply for its 5,500 residents (as well as Mount Allison University) from three large, deep wells on its reservoir property off Walker Road, located on the north end of the municipality.

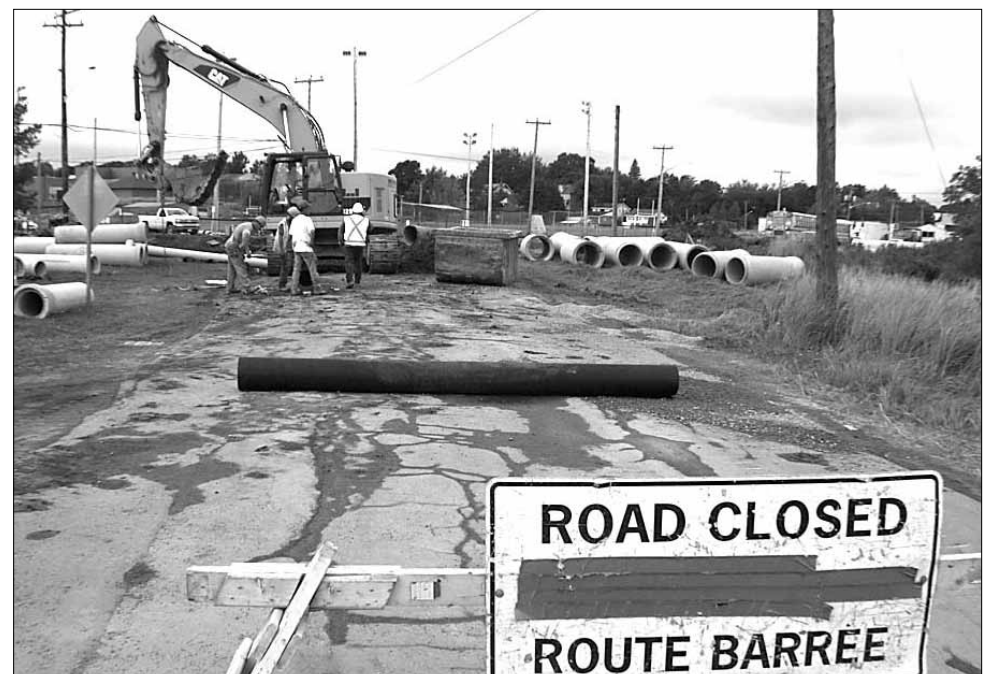
"The water is pulled from the wells and goes directly into the water treatment plant, also located just off Walker Road. Right now, our water is the best quality it's been for years," Acton says.

The town's wastewater treatment facility currently utilizes a double cell and a single cell lagoon located in two different sections of the town.

Being one of the few tidal communities in New Brunswick, Sackville relies on the dyking systems within the marshlands surrounding the town to prevent salt water from infiltrating and flooding the community.

"We also rely heavily on the aboiteaux structures, located in the marshlands, that were constructed in the 1950s and 60s, to get the stormwater out. It's really the bottle-neck, and once the water reaches there, if you don't have an aboiteau the right size and at the right elevation, how do you get the water out? That's kind of where we're at right now; why we're having the flooding issues," Acton says.

The aboiteaux and other related issues



The Town of Sackville, New Brunswick is currently undergoing major repairs to its water, wastewater and stormwater mains in the lowest elevation areas in the municipality. A tidal community, the town is often subjected to periods of flooding as climate change issues result in higher water levels due to the rise of tides and periods of heavy precipitation. Shown here, a section of Lorne Street remains closed as contractors work to install new infrastructure.

Joan LeBlanc photo

were studied during the planning for phase two, the specifics of which will be released after an upcoming public consultation. Acton says the two main aboiteaux currently in use are only 24 by 36 inches and 18-inch square, while the two new ones planned will be 48-inch round, stacked aboiteaux.

"Basically, there will be one on the very bottom of the ditching... the tide comes

in and holds those aboiteaux closed. The tide goes back out and if the water is high enough on the fresh water side, it will go out the top aboiteau. So, we'll be able to dump water, I'm not going to say constantly, because when the tide's in full it likely will hold the top one closed as well.

Continued on page 10



Theodore (Theo) Campbell is in the second year of UNB's electrical engineering program.



Bowser Construction Ltd. and Dexter Construction in partnership with Beal & Inch Construction Ltd. have been contracted to complete Phase One of that community's stormwater mitigation project. Shown here, owner Danny Bowser maneuvers the crane as his crew works to position a PVC water pipe into place on Lorne Street.

Joan LeBlanc photo

Continued from page 9

But as the tide starts to move out, that top one would open and release water on the top aboiteaux; the bottom one would still stay closed because the tide's still against it. But with the two, (in the future) there will be a significant difference over what we have today," Acton says, adding this will help move excessive stormwater out of the downtown area faster.

Phase two of the stormwater miti-

gation project has taken longer than anticipated to implement, Acton says, due to issues with land acquisition and the completion of an Environmental Impact Assessment by the New Brunswick Department of Environment.

"Right now, they (the town and Crandall Engineering) are looking at a number of viable options and it's expected the most viable will be chosen soon. We're hoping to have the tenders out this fall so work can be completed later this year or early in 2018," Acton says.

Bursary winners announced for 2017

*Two UNB students in their second years
chosen as recipients*

BY MPWWA

The Maritime Provinces Water and Wastewater Association is pleased to once again award two educational bursaries, valued at \$1,000 each, to two deserving students attending post-secondary institutions and whose parents are members of the association.

This year's recipients of the Maritime Provinces Water and Wastewater Association Educational Bursaries are Jana Giles and Theodore Campbell.

Giles is from Moncton, N.B. and is entering her second year in the Bachelor of Science in Chemical Engineering program at the University of New Brunswick, having attained a 3.9 GPA in her first year.

While handling the heavy course load involved with the chemical engineering program, she is also a varsity athlete and has represented the UNB cross country team at the Atlantic University Sport Championships. Proud papa Gil Giles is

a Moncton area member of the MPWWA.

Theodore (Theo) Campbell is from Saint John, N.B. and is also entering his second year at the University of New Brunswick. He is enrolled in the electrical engineering program with a first year GPA of 3.8. He is heavily involved with volunteering with various organiza-

tions in the Saint John area, and has played violin with the Saint John Area Strings since the age of 8 years old. His dad, John Campbell from Saint John Water, is a long-time member of the MPWWA.

Congratulations and wishes of continued success in their scholastic endeavors go out to both students.

Since the inception of the educational bursaries in 2013, the MP-

WWA has contributed a total of \$10,000 in financial assistance to students looking to further their education.

For further information on how to apply for the educational bursary, check out the MPWWA webpage: www.mpwwa.ca.

"Since the inception of the educational bursaries in 2013, the MPWWA has contributed a total of \$10,000 in financial assistance to students looking to further their education."



Jana Giles is in the second year of her Bachelor of Science in Chemical Engineering degree.

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Water upgrades prepare Slemon Park for its next 75 years

Heart of aerospace, manufacturing sectors needs improvements to handle growing client list

BY ANDY WALKER

Located on the outskirts of P.E.I.'s second largest community, Slemon Park has been a flight school and a Canadian Forces air base over the years, and is now the heart of the Island's \$500 million per year aerospace and manufacturing industry.

A growing client base and the demands of a global industry meant Slemon Park needed to update its decades-old sewer infrastructure. This year, investments from the Canada Water and Wastewater Fund allowed the aerospace hub to meet modern sewer handling requirements.

"Most of Slemon Park's underground wastewater collection system was installed prior to – and during – World War II," says David Anderson, vice president of property management for the Slemon Park Corporation. The corporation manages the former military base on behalf of the P.E.I. government.

The former system consisted of a mix of clay and concrete pipes along with

brick and cast concrete manholes. If they had failed, it would've threatened both the environment and the water system at Slemon Park.

"Replacement of these lines is strategic for Slemon Park to ensure the reliability of service both for existing and new companies, as well as protecting the environmental health of the area," Anderson says.

The Slemon Park water system is subject to heavy demands. More than 1,000 people work at the various businesses in Slemon Park, while 700 people live in the former housing facilities of CFB Summerside.

The work conducted at Slemon Park, which wrapped in October, included three distinct projects: a sewage lift station, sewage line replacements on Aerospace Boulevard and more replacements on Larchwood Drive. The projects cost nearly \$1.2 million, with half coming from Ottawa and 25 per cent each coming from the provincial government and Slemon Park.

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Souris upgrading wastewater infrastructure

Town to move from cracked, aging iron to new PVC piping

BY ANDY WALKER

The last time Souris upgraded its water and sewer lines, Swiss Family Robinson was playing in theatres and Bobby Lewis' 'Tossin' and Turnin'' was the No. 1 song.

Back in 1961, the growing seaside town, located approximately 20 minutes from the eastern tip of Prince Edward Island, installed iron pipes under its streets. Fast forward 56 years and those pipes are worn out and cracked from decades of tree root growth.

"That's a lot of stress over the years," says Greg Jay, the town of Souris' maintenance supervisor.

Jay spent this past summer overseeing the ongoing replacement of the town's

sanity sewer. The town filed a successful application under the Clean Water and Wastewater Fund. The federal government contributed \$84,476 to the project, while the province and the town both contributed \$42,238.

Souris' 1,100 residents are now flushing into brand-new PVC pipes installed under Main Street and others.

"This work will keep repair and maintenance costs low," Jay says. "We were having between 15 and 20 water main breaks a year, now we have maybe one. It's a big step forward."

Jay says the work being done will help protect the town's high-quality well water, adding the infrastructure is all separate. Jay says engineers are now studying the best options for upgrading the town's wastewater treatment plant.

"That's our next step."

"The last time Souris upgraded its water and sewer lines... Tossin' and Turnin' was the No. 1 song."

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