

Manufacturing East Connections

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CAER Hotline

Did you know that one of the tools NOVA Chemicals uses to share information with the community is the CAER Industry Update line?

The update line is a 24-hour service that features information on industry activity through pre-recorded telephone messages and is available to all area residents.

Please call 1-855-4SARNIA or 1-855-472-7642.



Our Focus on Safety and Reliability

Last December, we proudly announced two significant projects for our St. Clair Township operations. With work underway (please see pages 3 and 4 for updates), I want to share with you again our commitment to safe and reliable operations.

Safety is the top priority for all of us at NOVA Chemicals — be it at our existing operations or at our project construction sites. **We want every employee and contractor to return home safely each day.** Our goal is zero workplace injuries and illnesses.

NOVA Chemicals is a founding member of Responsible Care® and **safety is integral to our commitment to this program and our own Taking Care approach** not only in our workplace, but in our community, with our environment and our products.

The reliability of our operations is another area of ongoing focus for us. Planned maintenance during our regional turnaround in 2017 as well as the replacement of the Corunna Site flare tip were significant investments to ensure the safety, reliability and environmental performance of each facility.



Safety is the top priority for all of us at NOVA Chemicals. Our goal is zero workplace injuries and illnesses.

We strive for our facilities to run smoothly and reliably every day. Not only does this make good business sense, it meets our commitments to our community, positively influences our environmental performance and contributes to our safety goals.

Tom Thompson
Regional Manufacturing Director

Call for New BCAP Members

NOVA Chemicals is a proud member of the Bluewater Community Advisory Panel (BCAP). BCAP gives us a strong link to people who live and work in the Sarnia-Lambton region and we use this forum to communicate and engage on topics of mutual interest.

BCAP is currently looking for volunteer members. If you have an interest in the environment, safety or emergency preparedness related to local industry, please give this opportunity consideration. For more information, please email manestcomm@novachem.com.

In Our Community

Continued Support for YMCA Youth Development Programs

As a long-time supporter of the YMCA of Sarnia-Lambton, we are pleased to continue our lead sponsorship of several meaningful youth development programs.

To date, the YMCA Youth Aboriginal Leadership Initiative and Leaders of Tomorrow program have given 450 aboriginal youth from three local First Nations communities an opportunity to build leadership, problem solving and life skills, through communication, teamwork and having fun.

Additionally, YMCA Project North, with a focus on leadership development, community involvement, philanthropy and life experience, is a program empowering both aboriginal and non-aboriginal youth to look beyond their own backyard.

Building healthy communities can start with inspiring and engaging youth, and we're certain that the youth who participate in these exciting programs will forge new friendships and be part of unique experiences that they will remember for years to come.



Our sponsorship of several youth development programs helps foster leadership skills and community involvement, while providing valuable life experience for participants.



Helping Students Succeed at the FIRST Robotics Competition

As an industry that depends on future engineers and scientists, it's important to support STEAM education (science, technology, engineering, arts and mathematics). Hands-on STEAM education is credited with increasing science literacy and encouraging the next generation of innovators.

With this in mind, we're proud to be the 2018-2019 lead sponsor of the St. Patrick's Catholic High School FIRST Robotics Competition team, Irish Iron.

Each year, student teams from secondary schools in Lambton and Kent Counties, as well as other communities from across Ontario, Canada, and the world, gather together to challenge themselves and each other. Under strict rules, limited resources, and an intense six-week time limit, teams of students are challenged to raise funds, design a team "brand," hone teamwork skills, and build and program industrial-size robots to play a difficult field game against like-minded competition. It's as close to real-world engineering as a student can get!

FIRST (For Inspiration and Recognition of Science and Technology) is an international non-profit organization founded in 1998 to inspire young people's interest and participation in science and technology through teamwork and problem solving.

Best of luck to the Irish Iron!

Improving Access to Rehab Services for Local First Nations Children, Youth and Young Adults

NOVA Chemicals has joined four other area industry companies in providing support through Pathways Health Centre for improved access to rehabilitation and therapy services for children, youth and young adults from the First Nations of Aamjiwnaang, Walpole Island, Kettle and Stony Point.

This unique program is a collaboration between Pathways and each First Nation and is designed to deliver culturally appropriate therapy in each community for three areas of great need: Speech-Language Pathology, Occupational Therapy and Physiotherapy. Therapists are now travelling into the community on regular days and times, working with children, youth and families in a location of each First Nation's choosing where families regularly gather.

One part of the model that has been of special interest to the communities is the proposal for Pathways therapists to coach and train First Nations support staff on the job so they are able to follow through with activities and strategies with families in between therapy visits.

Since service began in late 2017, positive feedback and outcomes for families and children are already being realized.

Supporting Community Events

What would summer be without special events and festivals?

To help community groups bring fun, educational and entertaining activities to our community, NOVA Chemicals has sponsored the first aid / medical and safety stations at a variety of events this summer. Look for our logo at Captain Kidd Days, Artwalk, Bluewater Borderfest and the Bright's Grove Music Fest!



Update on Growth Projects

Last December, we announced a capital investment of approximately \$2 billion for two new significant projects for our St. Clair Township operations: a new polyethylene facility and the next phase in the expansion of our Corunna Site cracker.

Both of these projects are linked and generally follow the same expected schedule for engineering, construction, commissioning and start-up in late 2021.

Site preparations are underway and detailed engineering work continues, with approximately 50 local tradespeople currently on-site.

Construction on Area Roads

The Ministry of Transportation Ontario (MTO) will be making enhancements to Highway 40 between Petrolia Line and Rokeby Line beginning in May and continuing through November.

A portion of this work will facilitate the movement of traffic associated with our new polyethylene facility and includes an extension of the south-bound left-turn lane on Highway 40 at the intersection of Petrolia Line, an extension of the south-bound left-turn lane on Highway 40 at the intersection of Rokeby Line, and advanced green signals for ease in turning left for both directions of traffic at Petrolia Line.

Later this summer NOVA Chemicals will also begin upgrades on Rokeby Line. Anticipated to last from July through October, this work involves turning radius improvements to the east, widening of the paved shoulder and other paving improvements.

A traffic management plan will be in place to mitigate traffic impacts and signage will be posted on the roadway to facilitate the movement of traffic.

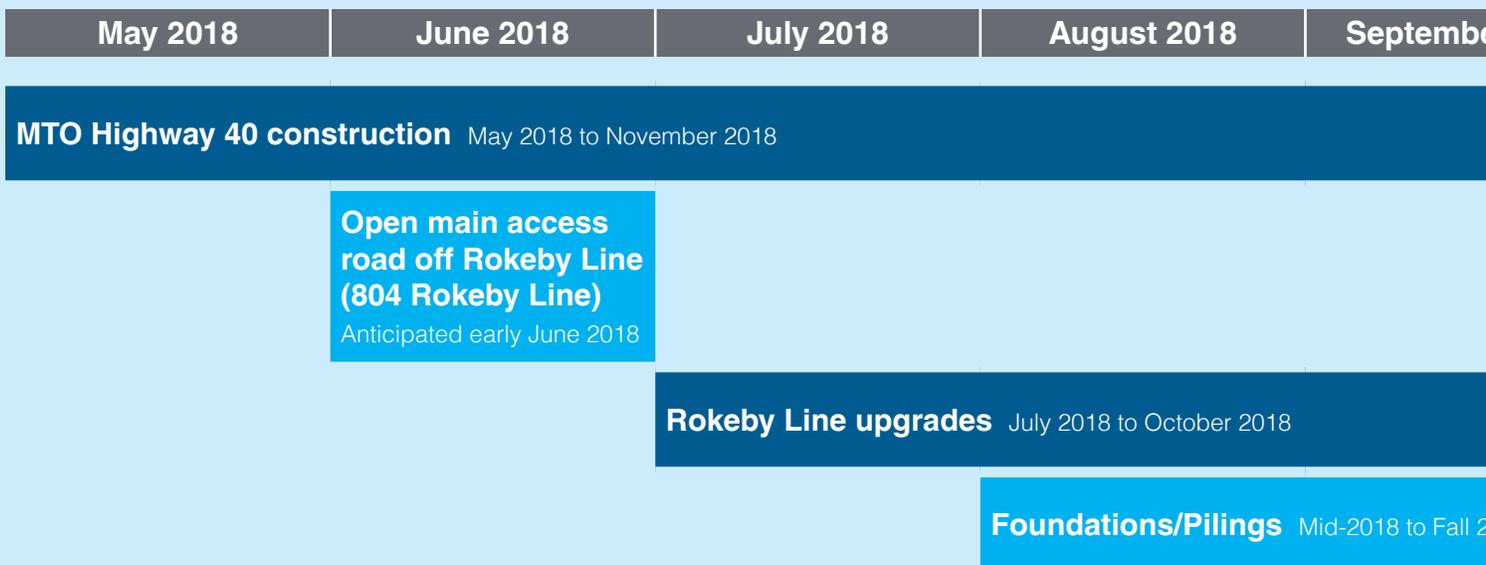
Local media and the CAER Industry Update line, among other ways, will be used to communicate impacts for the community associated with area roadwork.

Thank you for your patience during this time of transition.



2018 Project Milestones

**Note: timing of work is subject to change*



Moore Site Rail Yard Expansion Complete

The expansion of our Moore Site Rail Yard is now complete! This three-plus year project was completed without injury, involved the construction of new tracks and is increasing our capacity to store rail cars on-site. This reduces the number of cars stored at third-party storage yards, shortens shipping times to our valued customers, and increases control of the rail car fleet.

Interested in seeing how we did it? Visit us on Facebook and YouTube to watch a video.



New, Updated Website for Construction News

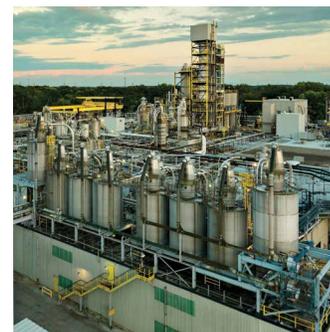
Our recently updated website is your one-stop shop for timely news and information related to our growth projects in Ontario. Visit www.novachem.com/Pages/sarnia-lambton/growth-in-ontario for:

- Project overviews
- Construction schedules and progress
- Newsletters and fact sheets
- Frequently asked questions, including how to work and do business with us.



Enhancements to St. Clair River Site

As part of ongoing continuous improvement, a capital project is currently underway to enhance our processes related to water collection and use at St. Clair River Site. This \$6-million investment will enhance our existing release prevention programs and processes. The project is targeted for completion in early 2019, subject to regulatory approvals.



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2019

Being a Good Neighbour

Our commitments to you

Community outreach, involvement and engagement are important to us at NOVA Chemicals. They are integral to the success of our ongoing operations and growth work.

With construction ramping up, being a good neighbour to our community is more important than ever. NOVA Chemicals, along with our construction contractors, is committed to proactively considering impacts and opportunities for stakeholders, and building positive community relations. These commitments or key areas of focus, outlined below, are made up of strategies intended to reduce community impact from construction through commissioning and start-up.

We will track our progress, share our performance with you along our journey and continue to welcome your feedback on how you think we're doing.



Communications

We are committed to sharing information related to project impacts, opportunities, news and milestones in a proactive and timely way.

We will do this by:

- Creating opportunities for stakeholder feedback
- Continuing to consult with directly and potentially impacted stakeholders



Traffic

We are committed to mitigating our impact on area roads.

We will do this by:

- Implementing a traffic management plan
- Proactively anticipating traffic impacts, particularly during peak construction times and for movements of heavy equipment
- Promoting speed reduction
- Using pre-determined traffic routes
- Developing processes to control gravel, debris, litter and dust



Employment and Business Development Opportunities

We are committed to contributing to the local economy.

We will do this by:

- Creating opportunities to connect the construction workforce with local businesses
- Promoting local employment opportunities
- Promoting local business development opportunities



Noise

We are committed to mitigating construction noise.

We will do this by:

- Scheduling work primarily during daytime hours
- Constructing a berm



Environment

We are committed to enhancing and protecting our natural resources.

We will do this by:

- Meeting our permitting and regulatory requirements
- Implementing a plan for tree planting on-site to compensate for trees removed from the construction site.
- Working with our contractors to minimize construction material waste or over supply

In Other News

Connecting Local Business to Construction Trades

We're excited to be expanding our St. Clair Township operations, and as part of our Good Neighbour commitments, we want to create opportunities to connect our construction workforce with local businesses.



In the coming months, we will offer the opportunity for local businesses to promote their services through a mobile app.

From food and beverage services, to rental accommodations, retail, entertainment and more, the app is intended to be a one-stop shop for tradespeople working on our projects to find what they need in Lambton County.

Stay tuned for more details on this exciting program!

Taking Care along our Pipelines

At NOVA Chemicals, we care about the safety of our neighbours and landowners, the communities in which we operate and the environment.

Our commitment to Responsible Care, which includes community awareness and emergency response, is aimed at attaining the highest standards for health, safety and environmental performance in all of our operations. Sharing information with you on how we are "taking care" along our pipelines is a key part of that commitment.

This spring, landowners and neighbours along our pipeline systems will receive an information guide that explains our approach to maintaining very high standards for pipeline safety and integrity, our emergency preparedness plans, and landowner rights and responsibilities. If you receive this guide, we encourage you to read it and keep it for future reference.



Taking Care

Understanding Flares

Flares are important safety devices used in refineries and petrochemical facilities. They safely burn excess hydrocarbon gases that cannot be recovered or recycled and do so in an environmentally-sound manner.

Our flare systems must meet strict environmental controls and approvals, as well as NOVA Chemicals' process safety and Responsible Care standards.

The use of flares is minimized to the extent possible. Flaring can occur during start-up and shut-down of our facilities for planned maintenance, and also during unplanned operational interruptions.



Photo courtesy of Glenn Ogilvie/Sarnia

We know that flaring may cause disruptions for our neighbours and community, particularly as it relates to noise, vibration and flame glow. When you see flaring, please be assured that flares play a key role in keeping our facilities running safely. We strive to minimize flaring, keeping it to times necessary for our continued safe operation.

Connections is published by NOVA Chemicals Corporation

If you have any questions, suggestions or concerns, please contact:

Manufacturing East Communications
manestcomm@novachem.com

For more information, please see these websites:

- NOVA Chemicals: www.novachem.com/pages/sarnia-lambton/sarnia-lambton.aspx
- Chemistry Industry Association of Canada: www.canadianchemistry.ca
- American Chemistry Council: www.americanchemistry.com



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