

SiteLine

Joffre Site Community News

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Highlights of what's inside...

2017 Highlights: Taking Care in our community 2 & 3

Regulatory and other site updates..... 4

*Season's greetings
and best wishes
for the New Year!*

From all of us
at the Joffre Site



A time to reflect on the past year...and to look forward

At the start of this year, our focus was definitely on a major milestone as we launched operations of our \$1-billion Polyethylene 1 Expansion Project. During 2017, we were pleased to have made significant progress towards **stabilizing operations at this new facility**. We have now **demonstrated full PE1 manufacturing capacity** for increasing periods of time and are working to further optimize our new assets in order to sustain this performance.

With continued positive progress, the Joffre Site will now be capable of producing more than 3.4 billion pounds of polyethylene per year for our customers in Canada and internationally. That's 40% more than pre-expansion. This accomplishment is extremely important to us. It helps ensure our **continued, sustainable business success** as well as our ongoing — and **growing — economic contribution** here in Central Alberta.

Throughout 2017, we were also preparing for a **significant regulatory application**. Early in 2018 we will be submitting Applications for Renewal for our Operating Approval and our Waterworks System Approval (page 4). Integral to the Operating Approval was our assessment of our environmental performance from 2006 to 2016. **We shared this information with you —** specifically through our Fall edition of *SiteLine* and at our October Community Open House.

In the course of our consultation related to this application, no new issues were identified. But as we look ahead, we

are just as committed to continue to manage, with your ongoing input, a range of **issues and opportunities we know are priorities for our community**. From managing increased rail traffic to and from our site, to promoting local business and employment opportunities, plastics recycling and product sustainability — these are among the areas of focus that are integral to meeting our Responsible Care® commitments. Plant reliability and the related flaring issues for our neighbours, such as noise, are at the top of our list after a year in which we experienced several plant outages.

In this year-end issue, we have a tradition of highlighting **how we Take Care in our community** — helping to support both financially and through our employee volunteer hours the initiatives that contribute to the quality of life here in Central Alberta. Our employees and our leaders are proud of our role in the community. We look forward to working into the future with the many people and agencies with a vision for our communities: caring, vital and sustainable.

As we close out Canada's 150th anniversary year, I'd like to wish you the best for the holiday season and a safe and productive new year. Thank you from all of us at the Joffre Site for your ongoing input into our operations.

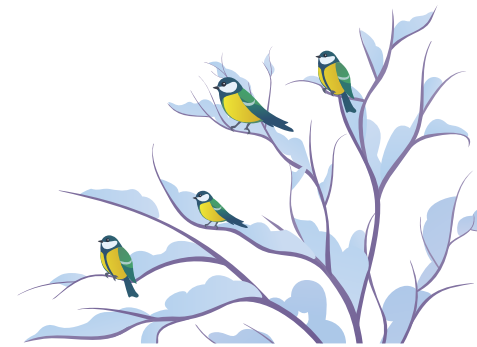
Rick Van Hemmen, Joffre Site Leader

2017 highlights: Taking Care in our community

We have a long history of community involvement and investment. It's an important aspect of our corporate culture and a reflection of our Taking Care model and our long-standing commitment to Responsible Care.

In addition to our financial support of organizations dedicated to making a difference and improving the overall quality of life for Central Alberta and fellow Albertans, our employees contribute hundreds of volunteer hours each year throughout the community.

Here is a look at some of our community involvement activities throughout 2017.



New annual sponsorship: Threads of Life

Throughout NOVA Chemicals we have an unwavering commitment to public, employee and contractor safety and Goal Zero (incidents, injuries, illnesses).

To support our commitment, we recently announced a three-year sponsorship of *Threads of Life*. Like us, this organization's network of family members and other corporate partners believes that workplace injuries, occupational diseases and deaths are preventable. *Threads of Life* is dedicated to supporting families along their journey of healing who have suffered from a workplace fatality, life-altering illness or occupational disease. The agency provides programs and services to more than 2,500 families across Canada at no cost.



“As a company, one of our core values is the safety and well-being of our co-workers and a commitment to Responsible Care®. We're excited to partner with *Threads of Life* as their network also believes that workplace tragedies are preventable.”

-Arnel Santos
Senior Vice President, Operations
NOVA Chemicals

Partners in building homes for deserving families

We were pleased to support Habitat for Humanity Red Deer in constructing four homes in 2017 for families in need in Lacombe. The community agency harnessed not only financial support and partnerships, but also 223 volunteers who devoted more than 3,500 hours to this incredible project.

Habitat Chief Executive Officer Karen Vavrek noted in a letter to NOVA Chemicals: "It is only with the support of community organizations and partners like yourself that we can fulfill our mission of breaking the cycle of poverty through home ownership here in Central Alberta."



Count down to the 2019 Canada Winter Games

NOVA Chemicals is a Platinum sponsor for both the 2019 Canada Winter Games and the construction of the Centre for Health, Wellness & Sport at Red Deer College.



As the Sustainability Sponsor for the Games we recently took the opportunity to introduce members of the Games to some of the industry associations we are involved in that have key sustainability mandates. The Games participants joined us at the NOVA Chemicals Centre for Performance Applications in Calgary in early September to meet with the Canadian Plastics Industry Association and Alberta Plastic Recycling Association. These connections aim to support proactive planning to minimize the footprint of the actual Games where over 5,000 volunteers will execute the 18-day event for a projected 20,000 visitors.



Getting to work at Fall Career Day

This November, 33 career day participants joined their parents at work at the Joffre Site. Workshops, one-on-one mentoring and general career exploration were all on this year's work day agenda. Feedback from participants (students, parents and employee volunteers) was extremely positive. We believe the petrochemicals industry has a wealth of career opportunities available — now and into the future.

What a year for our annual Joffre Site United Way Campaign!



Halloween is a time for pumpkins, costumes and candy! This year, Joffre Site revealed something special in our pumpkin patch — more than \$651,000 — the first tally from our United Way campaigns*. The volunteer commitment to our campaign remained high with more than 130 employees helping canvass their co-workers and host fun events across the site.

Through the ongoing generosity of our employees and retirees together with company matching dollars, our campaign has raised more than \$772,000. Over the years, the cumulative total from our campaigns in support of the United Way Central Alberta is nearly \$8 million.

**Our PE1 facility was carrying out a scheduled maintenance turnaround during our regular October campaign. So the PE1 employees didn't miss out on the opportunity for some United Way fun and comradery as well as an opportunity to help grow a strong Central Alberta community, a decision was made to host a dedicated United Way campaign for PE1 (post turnaround). This enabled everyone engaged in the turnaround to focus on their work activities and everyone's safety.*

Helping out community agencies through the United Way Day of Caring® Program

An essential aspect of our annual United Way Campaign is our participation out in the community, helping agencies with a variety of activities that will help them deliver their services better. This year, more than 175 of our employees devoted more than 1,300 hours of support (dollars saved can be re-directed into agency programming). Projects included technical support at Bethany CollegeSide and building a fence for Central Alberta Residency Society. These pictures tell more of the story we're so proud of!



Our Environment Team building the Pollinator Hotel at the NOVA Chemicals Community Nature Trail



Helping Central Alberta Residence Society build a fence



Sorting food at the Red Deer Food Bank



Cooking at Red Deer Ronald MacDonald House

A festive tradition continues

For 18 years, NOVA Chemicals has been a financial sponsor and dedicated volunteer supporter of the Festival Fashion Brunch (formerly TIS the Season Luncheon) — an integral part of the Red Deer Regional Hospital Foundation Festival of Trees fundraising event.

At this year's event, 40 of our employees handled their serving trays like pros for the more than 330 guests in attendance at this community tradition.



Regulatory update

Applications for Renewal of Operating Approval and Renewal of Waterworks System Approval: Early in 2018, we will be submitting both of these applications to Alberta Environment and Parks (AEP) as these approvals expire in 2019. As part of the consultation process with our neighbours and community on these renewals, we provided environmental performance data (2006 to 2016) in the September issue of *SiteLine* and at our October Community Open House. If you have any comments or questions on this information please get in touch with us.

Once we have submitted the applications and they are deemed complete by AEP, notices will be placed to allow for public review of the applications.



There was a great turnout of 48 community members at our October 2017 Community Open House. Guests were provided an overview of current site activities by Joffre Site Leader Rick Van Hemmen and had an opportunity to ask questions and discuss any aspect of our operations. Extensive displays highlighted Joffre Site environmental performance from 2006 to 2016 and our upcoming Application for Renewal of Operating Approval.



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For more information, please see these websites:

- www.novachemicals.com | www.novachemicals.com/Joffre
- Chemistry Industry Association of Canada: www.canadianchemistry.ca
- American Chemistry Council: www.americanchemistry.com



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Other site updates

Construction of the new stormwater retention pond located just east of the existing pond is complete, with commissioning now scheduled for 2018. The new pond incorporates best practices and will help the site more effectively capture run-off from major storm events. This captured water, once it is softened and clarified, is normally re-used in operations. Once the new pond is operational, we will be able to remediate the existing pond. More information on the remediation process will be provided in 2018.

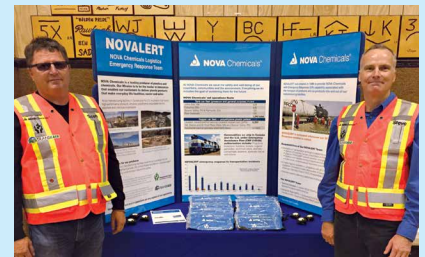
Former greenhouse property reclamation will continue into 2018 with the removal of below-ground concrete footings, pads and some foundations, various underground piping and an underground storage tank. Reclamation of topsoil is also included in the work plan. In Spring 2018 we expect to have two thirds of the property back into agricultural use by leaseholders.

Safely transporting products in Canada and the U.S.

NOVA Chemicals is actively involved in TRANSCAER® (Transportation Community Awareness and Emergency Response). This organization is a voluntary national outreach effort under the direction of the Chemistry Industry Association of Canada (CIAC) that focuses on assisting communities to prepare for and to respond to a possible hazardous materials transportation incident.

In 1989, NOVA Chemicals created NOVALERT to provide us with Emergency Response capability associated with the transport of products and co-products into and out of our manufacturing facilities.

This Fall, members of our NOVALERT team took part in an event in Bowden that provided more than 70 first responders with information about our products and co-products. NOVALERT team members are available to support authorities during an incident as technical experts.



Connect with us!



Responsible Care®
Our commitment to sustainability.