

# SiteLine

## Joffre Site Community News

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### Highlights of what's inside...

Top United Way contributor award .....	2
Lakeland College donation .....	2
PE1 Expansion Project update..	3
Take a virtual tour: Community Nature Trail .....	3
Regulatory update.....	4
Greenhouse demolition / reclamation underway .....	4
Community Open House invitation .....	4



**NOVA Chemicals:  
2019 Canada Winter  
Games Sustainability  
Pillar Sponsor**

See page 2



## A renewed perspective on value-added industry in Alberta

When the Joffre Site began operations 37 years ago, one of the principles that drove leadership's vision for the construction of our first ethylene plant was diversification, adding value to Alberta's natural gas resources. When Premier Peter Lougheed officially opened that first plant in 1979, I don't think any of us foresaw the creation of one of the largest ethylene and polyethylene production complexes in the world. But that is what the Joffre Site is today.

**Today, as the Alberta Government focuses on creating a comprehensive value-added plan for Alberta,** we are pleased to be at the table to share our experience and to help identify strategies for our province to further this concept. We see ourselves among the "pioneers" in value-added industry in this province. We also believe this province has tremendous economic potential in upgrading our natural resources close to home.

**Creating value, as we have learned at the Joffre Site, involves long-term commitment.** It involves constant investment and reinvestment — not just in our physical assets, but in our people and our community. It also involves socially responsible operations that meet the expectations of our community and many different stakeholders.

In 2013, we kicked off a significant growth project at the Joffre Site: our \$1-billion Polyethylene 1 (PE1) Expansion Project. A peak construction workforce of about 800 craft workers is now focusing on taking the project into the home stretch. **We are preparing for the commissioning and start-up of the PE1 expansion by year-end** (see page 3 for details). The expansion will allow us to increase our overall site



*Alberta Minister of Energy, Honourable Margaret McCuaig-Boyd, pictured with our Senior Vice President Olefins and Feedstock Naushad Jamani, toured the Joffre Site on February 16. The Minister was joined by the MLA for Red Deer-North Kim Schreiner and the MLA for Red Deer-South Barb Miller. Our guests had the opportunity to learn first-hand the positive impact NOVA Chemicals continues to have in our Alberta communities.*

polyethylene capacity by approximately 40%.

We are also continuing with our Ethylene 2 Furnace Refurbishment Project, the planned construction of a new retention pond and the reclamation of the former greenhouse area. All of these activities, and others involved with our daily operations, contribute to **continued positive economic activity in the region.**

Please come out to our April 27 Community Open House (invitation page 4) to get updates on these activities and our day-to-day operations. Your input and suggestions add significant value! We look forward to seeing you there.

**Rick Van Hemmen, Joffre Site Leader**

## Stepping up as sustainability sponsor for 2019 Canada Winter Games

On February 10, Red Deer College (RDC) and the 2019 Canada Winter Games Host Society (2019 Games) announced NOVA Chemicals as the Sustainability Pillar Sponsor.

As a pillar sponsor, we will provide support for RDC and the 2019 Games and the construction of the RDC Health, Wellness & Sport Centre.

We're excited about the unique opportunity for us to be a part of this significant national-level event and multi-purpose venue that will stage the games and leave a lasting legacy for Central Alberta. RDC and the Games will utilize a suite of strategies to support a sustainability leadership vision. This is well-aligned with how NOVA Chemicals applies sustainability in our business by helping to address economic, social, environmental and future generation impacts.

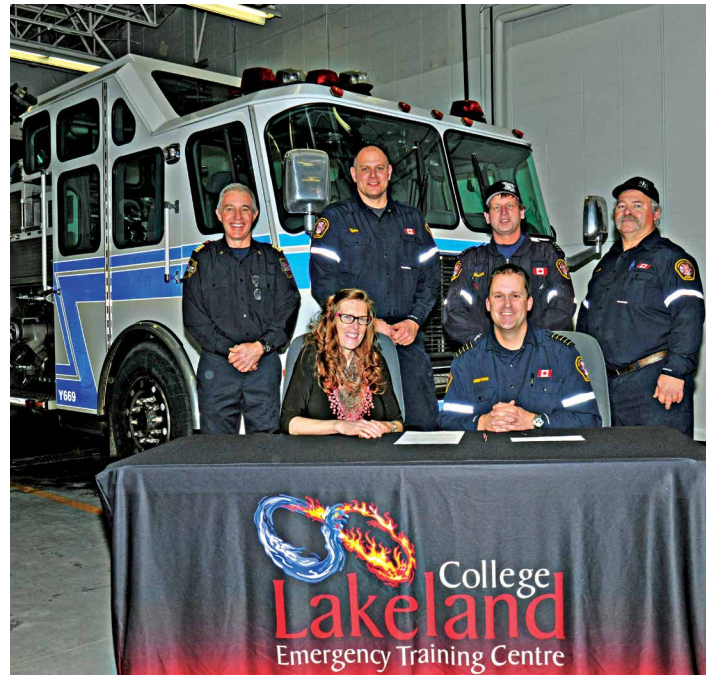
Joffre Site Leader Rick Van Hemmen is also chairing the Legacy Sub-Committee on Sustainability for the 2019 Games. At the announcement for our sponsorship he noted, "We are excited to partner with RDC and the 2019 Games to present the best of Central Alberta to the nation in 2019 under a shared theme of sustainability."

The 2019 Games will connect more than 400 communities and one million athletes who vie for a spot on their respective provincial teams. In 2019, 3,600 participants from across Canada will compete for gold in 19 sports in Red Deer and Central Alberta. The economic impact from the 2019 Games is projected at over \$132 million with 20,000 visitors expected to visit Red Deer and Central Alberta.



*Pictured above is Joffre Site Leader Rick Van Hemmen at the announcement with our partners (in red jerseys): RDC President Joel Ward and Chair 2019 Games Board of Directors Lyn Radford.*

*Pictured below are the key partners signing the official letter of intent.*



## Lakeland College receives industrial pumper truck

Students at the Lakeland College Emergency Training Centre now have access to a specialized industrial pumper fire truck. NOVA Chemicals Joffre Site donated a year 2000 model fire truck which will be used by students and clients for live industrial scenario training, including skills maintenance courses and fire fundamentals.

"Lakeland College is a valued fire training service provider for our NOVA Chemicals site personnel and we have enjoyed a long-term relationship with the college," said Christian Lamoureux, Joffre Site emergency response co-ordinator, at the presentation.

Accepting the donation were representatives from Lakeland College including President Alice Wainwright-Stewart (front left) and NOVA Chemicals' Lamoureux (front right).

## Top campaign contributor award presented to NOVA Chemicals

We were honoured to receive this award from the United Way of Central Alberta in January to acknowledge our 2015 campaign contribution of \$738,840. Chris Cooke, chair of our Joffre Site campaign, cited three components to our success: dedicated employees, committed leaders and ongoing corporate support.



Since 1997 we have raised over \$6.3 million for the United Way of Central Alberta — our "charity of choice" and a significant part of our overall community investment program.

## PE1 Expansion Project Update

# Looking towards commissioning of PE1 expansion by year-end

The PE1 Expansion Project is now more than 75% complete. We expect that by the end of Summer construction will be complete and commissioning will be in full swing.

Planning for commissioning is now underway. Watch the next few issues of *SiteLine* for more information on the commissioning and start-up plan. As with all our operations, these activities will be conducted with the utmost care and consideration for safety, the environment and our surrounding community.



Over the next few months a peak construction workforce of about 800 craft workers will slowly be reduced as our PE1 Expansion Project heads into the home stretch.

During the past few months, we have also upgraded a number of our existing facilities to meet the needs of the new reactor — the key piece of equipment in the expansion. These preparations included upgrading the PE1 Lab and the existing PE1 plant control room, new catalyst facility and silica dehydrator and a new control console.

Check out the video featuring PE1 Expansion Project progress on our website at: <http://www.novachem.com/Pages/company/joffre-expansion.aspx>



To prepare for the expansion start-up, we upgraded a number of existing PE1 plant facilities including the control room.

## Take a virtual tour of the Community Nature Trail

Haven't had a chance yet to visit the 89-hectare (220-acre) NOVA Chemicals Community Nature Trail just north of the Joffre Site? Or want to share your positive experience with others?

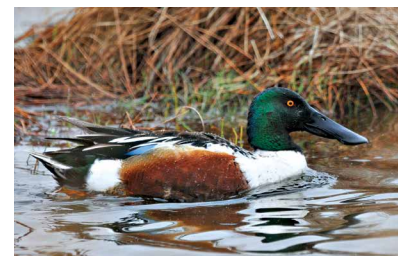
We've posted a short video to YouTube showing the finished trail. Please take a look at:

<https://www.youtube.com/watch?v=Tcrp4nUsUuc>

We've also added lots of visitor information to our website at:

<http://www.novachem.com/Pages/joffre/joffre.aspx>

The Community Nature Trail — an environmental legacy project of the PE1 Expansion Project — was opened in Fall 2015 for the enjoyment of the community and our employees. The area, open to the public year-round, is unique and demonstrates how wildlife habitat / agricultural / industrial / recreational land uses can exist harmoniously together. The five-kilometre trail system provides an excellent opportunity for people to connect with nature. The theme of the 26 interpretive signs is *Taking Care with Our Land*.



## Regulatory update

### New retention pond awaiting regulatory decision:

Last year we completed a geotechnical assessment and engineering design work to confirm the location for a new retention pond as well as its specifications. This information was shared with the community at the Open Houses and through *SiteLine*. In December 2015 we applied to Lacombe County for rezoning of approximately eight hectares of agricultural land to industrial for the pond, to be located directly east of the existing southeast pond. The application was approved on January 14, 2016.

We also submitted a regulatory application in January 2016 to Alberta Environment and Parks (AEP) for an amendment to our Approval under the *Alberta Environmental Enhancement and Protection Act* to allow construction of the new retention pond. AEP's review also encompasses dam safety guidelines. The approval decision for the new pond is expected this month.

With approval, construction of the new pond will begin in the Spring with a scheduled commissioning and start-up in Fall 2016. For details on the pond please see our fact sheet at: [www.novachem.com/pages/joffre/joffre.aspx](http://www.novachem.com/pages/joffre/joffre.aspx)

## Buffer zone update

### Greenhouse demolition / reclamation work underway

Work got underway in the Winter on the first phase of reclamation of the former greenhouse property (just south of the Joffre Site). This first phase involved dismantling / demolishing of the above-ground facilities and work was completed early in February 2016.

Wherever possible, materials from the site were reclaimed and sold or recycled by the contractor.

The second phase will assess the scope, costs and timing for the removal of below ground foundations and equipment such as piping and the underground storage tank, removal of the ponds, as well as reclamation and remediation of the land as part of our Joffre Site buffer zone. The timing of this phase is being influenced by our planned use of the area for a temporary laydown site for the ongoing PE1 Expansion Project as it nears completion in 2016, as well as seasonal considerations for soil work. We will continue to develop the next steps for the property in 2016.



*Before: The above-ground facilities included three greenhouses, a warehouse and some associated smaller buildings.*



*Dismantling and demolition work of above-ground facilities during Phase 1.*



## Community Open House

- Date:** Wednesday, April 27, 2016
- Time:** 5:30 to 6:30 p.m. "Drop in to Chat"  
6:30 to 7:30 p.m. Presentation/Discussion
- Place:** Haynes Hall (Travelling east on Highway 11, turn north (left) on Range Road 244 for 3.3 km to Township Road 390. Cross over 390 and take first left into parking lot of Haynes Hall.)

### Refreshments will be served

- Agenda:**
- Get business and facility operations updates
  - Get updates on the PE1 Expansion Project
  - Discuss any topic of interest
  - Provide your input and suggestions

**We hope to see you there!**

### SiteLine is published by NOVA Chemicals Corporation

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### For more information, please see these websites:

- [www.novachemicals.com](http://www.novachemicals.com) | [www.novachemicals.com/Joffre](http://www.novachemicals.com/Joffre)
- Chemistry Industry Association of Canada: [www.canadianchemistry.ca](http://www.canadianchemistry.ca)
- American Chemistry Council: [www.americanchemistry.com](http://www.americanchemistry.com)

