

# SiteLine

JOFFRE SITE COMMUNITY NEWS

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Published for the Central Alberta community by NOVA Chemicals

## Special Edition: Annual Environment Review

NOVA actively promotes sustainable practices and the responsible management of our operational impacts to air, water, land, and biodiversity—all key components of our Joffre Site Environmental Program outlined in this edition of *SiteLine*.

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*In 1975, NOVA Chemicals (at the time, Alberta Gas Trunk Line Company) pivoted from a prairie pipeline company to begin laying the groundwork for our first ethylene plant. Fifty years later, we are proud to be Canada's largest petrochemicals producer.*

## Welcome to the Summer 2025 edition of SiteLine!

It's an exciting time for NOVA Chemicals. We're celebrating the 50-year milestone of the decision to build our first ethylene plant in Joffre, marking the start of NOVA as the petrochemicals company we know today.

As a NOVA employee for 25 of those years, I really appreciate our long and proud history of giving back to the communities where we live and work. As a founding member of Responsible Care®, this commitment means more than just words — it means we must always try harder, be better, and continuously improve for our employees, our communities, the industry, and the world around us.

We held our annual Safety Day on May 7, where our colleagues from across the company gathered to listen, learn, reflect and reaffirm our commitment to Responsible Care and an injury-free workplace. We discussed practicing safety with care and collaboration and using Human and Organizational Performance (HOP) to learn and improve. The HOP approach resonates strongly with me — it focuses on our **people**, and results in a company built on trust, care and learning.

Here at Joffre, I'm proud to say that we have an **excellent safety record to date**. Safety is foundational at NOVA, and it's critical that our employees and contractors go home safely each and every day.

Over the last several months, I've enjoyed engaging in community activities with our neighbours, friends and partners.

- I recently joined the Central Alberta Trades Committee as Co-Chair with Red Deer Polytechnic. This committee is aimed at ensuring our community will have the skilled trades required for the future.

- I attended the grand opening of our NOVA 50 exhibit at the Lacombe Museum in April — see more about the display on the next page.
- In May I participated in Steps for Life in Red Deer to walk with my colleagues and their families to raise awareness and funds to support families impacted by workplace injuries, illness and tragedy. It was great to show NOVA's support and commitment to working safely.

You may have recently heard about the potential acquisition of NOVA Chemicals. Once the deal closes, NOVA will become part of Borouge Group International, marking an exciting new chapter for NOVA Chemicals, ADNOC, and their portfolio of global petrochemical companies. Together, we will be uniquely positioned to meet the growing demand of plastics while accelerating our transition to a circular economy, to deliver even more value to Alberta.

As I reflect on our history, I'm excited about what the future holds. As a member of the community, we truly value our relationships with our neighbours and the safety of our communities. Thank you for your support and partnership. We're looking forward to the next 50 years!

Sincerely,



**Rob Thompson,**  
Vice President Manufacturing West





## BUSINESS UPDATES

### Connersville Grand Opening

NOVA Chemicals hosted a grand opening event in late May to commemorate the commissioning of our first polyethylene (PE) film mechanical recycling facility located in Connersville, Indiana. This marks the facility's readiness for mechanically recycling PE film and producing high quality recycled PE. Projected to produce over 100 mm lbs of post-consumer recycled PE resin annually, **the facility represents one of the most advanced film recycling operations in the world.** With this investment, NOVA aims to provide high-quality recycled content that meets the toughest food-grade standards.



### Celebrating 50 Years in Petrochemicals

For 50 years NOVA Chemicals has been a leader in petrochemicals, innovation, and customer experience. In 1975, a prairie pipeline company made the shift into petrochemicals by building its first ethylene plant in an agricultural community in Lacombe County. Fifty years later, NOVA Chemicals is proud to be Canada's largest petrochemicals producer.



To celebrate, we've partnered with the Lacombe Museum to present an Anniversary Exhibit at the Flatiron Building this summer. The display highlights some great local history, artifacts, and stories to check out until the end of June.

To share our thanks for putting on this showcase, VP Manufacturing West Rob Thompson presented the Lacombe Museum with a donation of \$10,000 at the exhibit grand opening. During the event, members of NOVA's executive committee were able to check out the display and reminisce on the last five decades of innovation, growth, and leadership in the chemical industry.



ENVIRONMENT

Monitoring Our Impact on Water Resources

Water is a valuable resource and a critical part of our manufacturing processes at our Joffre manufacturing facility.

As an industry leader and founding member of Responsible Care®, NOVA Chemicals takes great care in ensuring the responsible treatment, reuse and return of water to the Red Deer River.

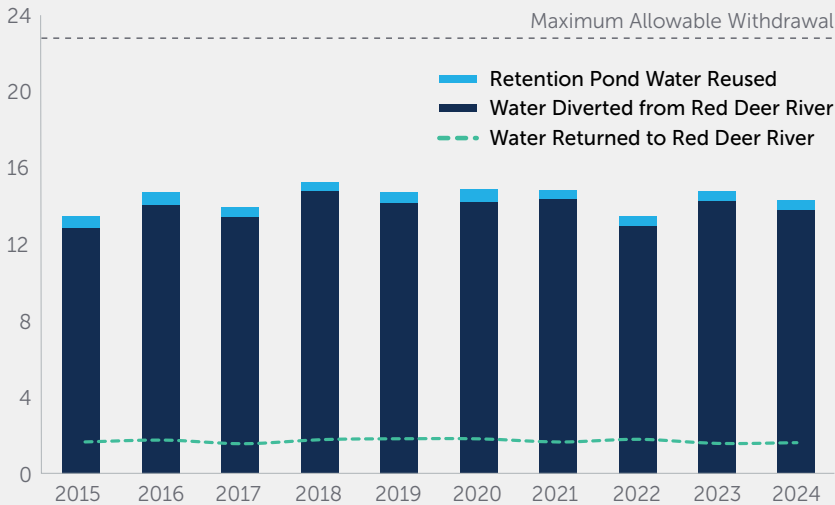
The Red Deer River has an annual flow of roughly two billion cubic metres (m³). NOVA Chemicals has water licences for approximately 23 million m³ per year, which is just over 1% of the annual flow in the river.

In 2024, NOVA **withdrew 13.8 million m³** or 61% of our allotment from the Red Deer River. We also **collected and used 0.47 million m³** from surface runoff.

Most of the water used in our manufacturing facilities is returned to the environment through evaporation in cooling tower plumes. The amount of water vapour released back to the ecosystem is about 80% of our intake. Water returned to the river goes through extensive testing to meet regulatory requirements and strict environmental standards.

Joffre Site Water Usage

(million m³ of water)



This graph shows our water use at the Joffre Site for NOVA Chemicals and Cogen. Generally, the greater the production rate, the greater our water use. Water use also fluctuates with other site activities such as turnarounds and weather conditions.

Ensuring Air Emissions Meet Alberta Ambient Air Quality Objectives

Through the Joffre Site Air Emissions Management Program we strive to reduce emissions, monitor impacts and continuously review our performance.

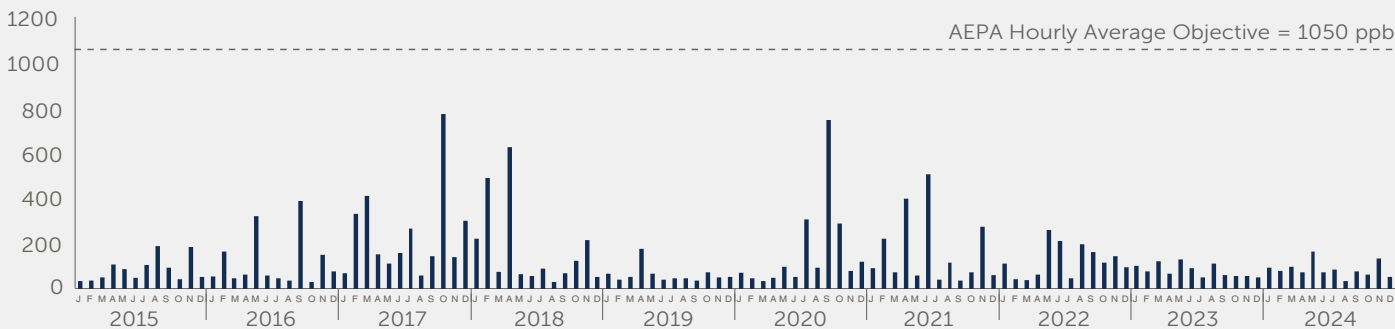
We remain focused on ensuring air emissions are below all regulatory compliance limits and air quality objectives set by Alberta Environment and Protected Areas (AEPA).

NOVA Chemicals interfaces with regional groups such as the Parkland Airshed Management Zone (PAMZ).

Data related to a variety of air quality parameters, as shown in the graphs below and on page 4, indicates our concentrations are consistently below established objectives.

Ambient Air Ethylene 1-Hour Maximum Concentrations

(ethylene reading [ppb])

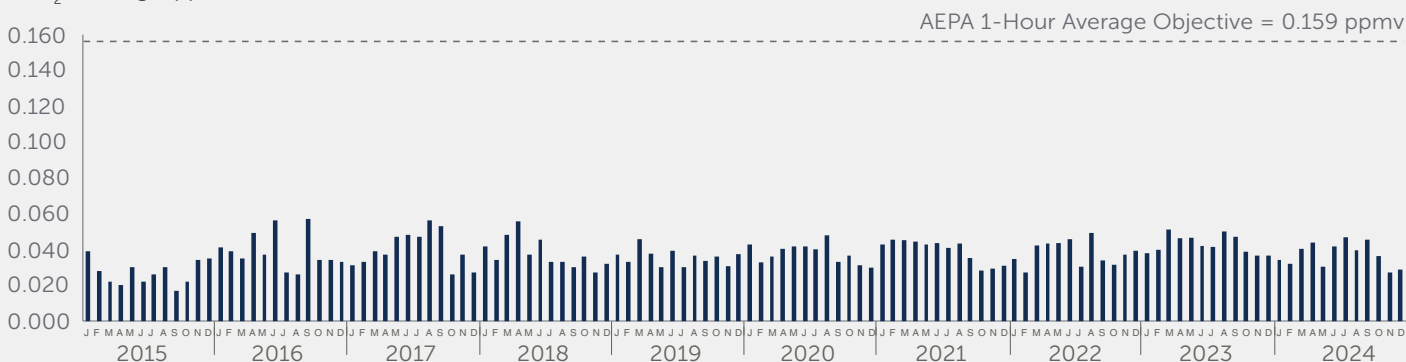


Ambient ethylene (1-hour maximum) concentrations are well below the AEPA Hourly Average Objective of 1,050 parts per billion (ppb). The high concentration readings correlate with outage dates and plant start-ups, where most often additional flaring and equipment purging occurred. Operational corrections for flaring events and repairs made through the LDAR program (Leak Detection and Repair) have been made as necessary, and have successfully reduced the number of high concentration readings.



## Ambient Air NO<sub>2</sub> 1-Hour Maximum Concentrations

(NO<sub>2</sub> readings [ppmv])

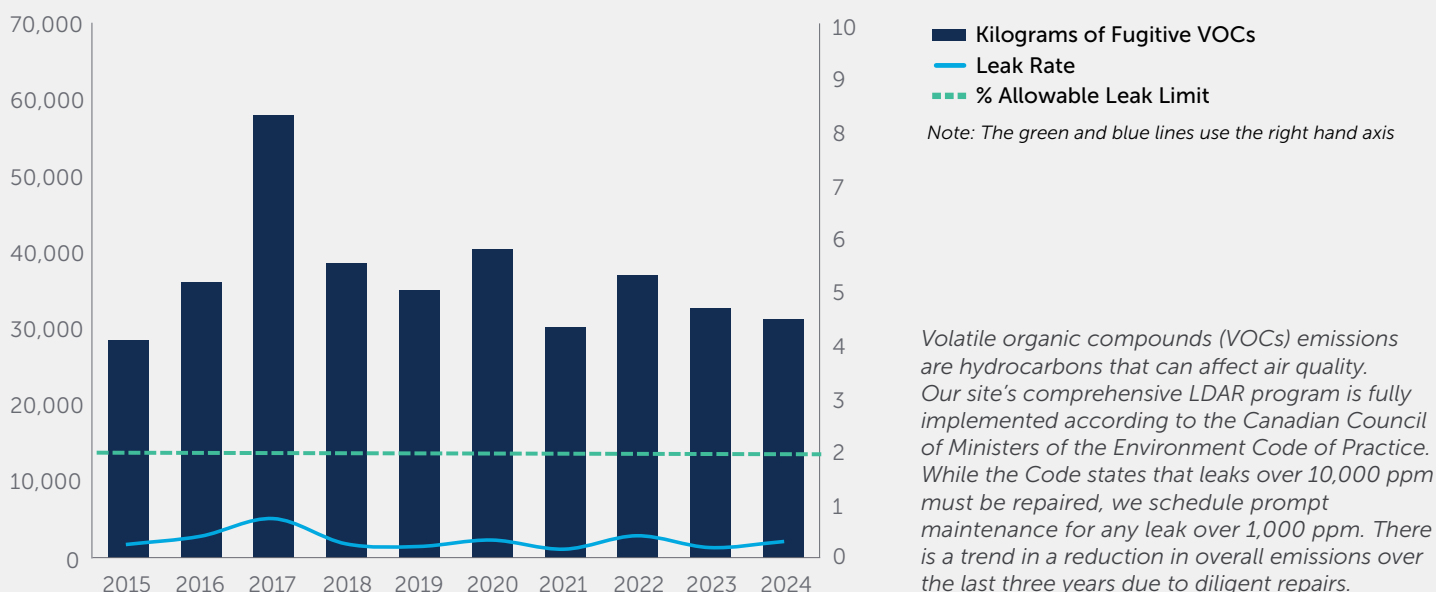


Concentrations of oxides of nitrogen (NO<sub>x</sub>), specifically NO<sub>2</sub>, are consistently below regulatory limits.

## Petrochemical facility fugitive VOCs

(kilograms of fugitive VOCs)

(% allowable leak rate)



## What to Expect When We Flare

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.

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.

Our operating policy is to minimize flaring to reduce environmental, economic and community impacts. We strive to minimize flaring, keeping it to times necessary for our continued safe operation.



## Noise Management Updates

Monitoring, modelling and mitigation are key components of our ongoing noise management strategy.

In 2024, an analysis of historical permanent noise monitoring station data was completed. The results showed that **night-time noise levels remain below the historic target sound levels** during normal operations. In addition, ad hoc noise monitoring was conducted during unit shut-downs and start-ups.

The North Rail Abatement Strategy 2024 results indicated that **sound levels continue to be below the Alberta Energy Regulator Noise Directive**.

There were **no rail curfew exceedances** for the north rail yard in 2024.



## Our Commitment to Waste Reduction

We continue to seek new ways to divert items away from the landfill.

In 2024, **46% of waste generated was recycled, reused, or recovered**.

Our Soil Enhancement Program continues to benefit local farmers' fields with the **application of our spent lime/phosphate to 2,945 acres** in 2024.

Through ongoing promotion and awareness of our onsite recycling programs, we **raised over \$10,555 for the United Way** in 2024. These funds support hot breakfasts for school-aged children, domestic violence therapy, literacy training, immigrant training and more.

## Compliance Assurance in Action!

Did you ever wonder how our regulators maintain oversight of the Joffre Site? In 2024 through early 2025, we participated in an inspection by Alberta Environment and Protected Areas with Environmental Protection Officers. Their focus was on the conditions of our Environmental Protection and Enhancement Act approval, especially around our air and wastewater sections. Over five months of engagement, the inspection included a review of documentation as well as a site visit. The results were very positive with no findings.



## CARING FOR OUR ENVIRONMENT

The **Sustainability Action Team** is an employee-led team passionate about sustainability. They act on initiatives that reduce environmental impact and/or raise awareness to influence positive personal behaviours.



Manufacturing West  
**Sustainability  
Action Team**

**Annual Red Deer Tree Planting** — For over 26 years, NOVA Chemicals employees and their families have supported the Red Deer Community Reforestation Program. On May 2, NOVA volunteers and their family members **planted 1,000 seedlings in the Queens Industrial Park Reforestation Area**.



**Reducing Road Traffic, On and Off Site** — To help reduce the impact of traffic in our community we have our **NOVA To Go carpool app** for employees and contractors to find carpool partners. We will be actively promoting carpooling and the use of our app to help encourage ride-sharing. Our **on-site bike share initiative** encourages employees to utilize bicycles for transportation around the site to reduce the number of vehicles in use.

**Adopt-A-Highway Spring Clean Up** — As part of our sponsorship of Adopt-A-Highway Programs, we **support 14 youth groups per year to sweep 35 KM of ditches** surrounding the Joffre Site. The groups collect garbage and identify hazardous items for proper retrieval and disposal. **Please drive with caution when you see the youth groups in the area!**





## COMMUNITY ENGAGEMENT

### NOVA Welcomes National Council Deans of Apprenticeship Trades & Technology

Red Deer Polytechnic hosted the National Council Deans of Apprenticeship Trades and Technology in early June bringing together post-secondary institutions across the country. NOVA Chemicals was proud to welcome them to our world-class facility for a tour and to share more about our desire to grow interest in trades in our industry and our province.



### Lacombe County Annual Meeting

NOVA and Lacombe County held their annual meet-up in Lacombe in June and were able to also check out the museum display!



### 2024 United Way Campaign Award

The NOVA Chemicals campaign team was thrilled to accept the award for top campaign in 2024, contributing over \$686,000 to the \$1.7 million dollar campaign! Thank you to all employees and retirees who helped us with the campaign — we are looking forward to our campaign in 2025!



### Supporting 4-H

It was another great 4-H beef sale in Lacombe at the end of May. NOVA is proud to support youth in our community and impressed by the dedication the 4-H members put in throughout the year. NOVA purchased 10 steers at this year's sale and sponsored Supreme Champion Female.





## Science Olympics

NOVA was proud again to sponsor the Science Olympics, hosted by the Association of Professional Engineers and Geoscientists of Alberta (APEGA). This annual event brings together students from grades 4-12 and inspires them to explore careers in STEM.



*NOVA engineers volunteered at the event to help put on a great day for the students.*



## Manufacturing West Employee Resource Groups (ERGs)

### Indigenous Inclusion Session Elder Teachings —

In March we had the opportunity to learn from Theresa "Corky" Larsen-Jonasson, a Cree elder from Central Alberta. She taught about elder protocol, the medicine wheel, and the different corresponding medicinal plants the Indigenous peoples of the area use.



**English as a Second Language Promoting Language Learning —** NOVA's English as a Second Language ERG is providing opportunities year-round to learn about new languages and cultures!

### Women in NOVA Support Central Alberta Women's Emergency Shelter —

As part of International Women's Day, the Women In NOVA (WIN) Employee Resource Group held a site-wide donation drive and presented a **\$10,000 donation** to put towards the furnishing of their new shelter!



## STAY CONNECTED



### Sign up for Texts from NOVA!

We've launched **Texts from NOVA** — a proactive communications avenue to share helpful information with community members to keep you in the loop on community events, alarm or Communicator testing, and site activity, like flaring. Texts will be sent from 8 AM – 8:30 PM, as activity dictates.

Texts from NOVA will not be used for emergency situations, our Communicator telephone system will remain the only avenue for these communications. Sign up by scanning the QR code or visiting [novachem.com/Joffre](http://novachem.com/Joffre)



## NOVA Chemicals Community Nature Trail

Due to potential dry conditions this year, wildfire risk is high. Please be mindful there is a no smoking policy at the Nature Trail.



**CAUTION**  
**WILDFIRE**  
**DANGER IS HIGH**

During high wildfire season, please use extra caution:



**No smoking**  
The use of tobacco, cannabis and vapour devices is prohibited



**No BBQ**  
The use of portable BBQ and camping stoves are prohibited



**No motor vehicles**  
Foot traffic only permitted

SiteLine is published by NOVA Chemicals Corporation  
P.O. Box 5006, Red Deer, AB, T4N 6A1  
Attn. Kaelyn Gillard: [joffresite@novachem.com](mailto:joffresite@novachem.com)

For more information, please see these websites:

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

Connect with us!



### Key Dates in 2025

- **June 21 & December 21 (annually)** — Offsite Emergency Community Notification System testing & Joffre Alarm Testing
- **Mid-September** — H<sub>2</sub>Safety information verification phone calls for 5 KM residents
- **November 2** — Site Alarm Testing
- **November 5** — Community Open House at Haynes Hall, 5:30 – 7:30 p.m.

## Joffre Site Hosts TRANSCAER®'s new training railcar

Recently, Manufacturing West in Joffre was excited to host **TRANSCAER's new training railcar, Safety Train CCPX 911**, to prepare it for a journey across Canada. Essentially a classroom on wheels, the Safety Train plays a key role in TRANSCAER's outreach events to deliver hands-on, real-world training to emergency responders and communities across Canada.

A team from NOVA weighed the railcar, installed equipment, and completed preparations so it could hit the tracks for its journey. The Safety Train officially left the 'station' in March, heading to Vancouver for its first event. Then it will make its way to Ontario, Quebec, and back through the prairies.



**What is TRANSCAER?** TRANSCAER stands for 'Transportation Community Awareness and Emergency Response' and informs communities about products being moved through their area by road and rail, as well as the measures in place to respond to transportation incidents.



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