



**Proposed Redwater Ethylene Delivery System  
Lateral Pipeline Project**

**Public Disclosure Document**

**November 2011**



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Our commitment to sustainability.

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**Please contact us for more information or to provide us your views and input:**

**NOVA Chemicals Pipeline Office: 1-800-780-6682 or 403-342-6461**

**NOVA Chemicals Corporation Emergency Toll Free Line: 1-800-780-6682**

**E-mail:** [joffresite@novachem.com](mailto:joffresite@novachem.com)

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Information about this pipeline project is also available at our website:  
[www.novachem.com/joffre](http://www.novachem.com/joffre) under 'News Room'

**NOVA Chemicals** develops and manufactures chemicals, plastic resins and end-products that make everyday life safer, healthier and easier. Our employees work to ensure health, safety, security and environmental stewardship through our commitment to sustainability and Responsible Care®.

**NOVA Chemicals®** is a registered trademark of NOVA Brands Ltd; authorized use/utilization autorisée.

**Responsible Care®** is a registered trademark of the Chemical Industry Association of Canada (CIAC) in Canada and is a registered service mark of the American Chemistry Council (ACC) in the United States.

**Dear Landowners/Stakeholders,**

**Proposed Redwater Ethylene Delivery System Lateral Pipeline Project**

NOVA Chemicals Corporation (NOVA Chemicals) is proposing to construct a new lateral pipeline segment in the Scotford industrial area to connect the existing Ethylene Delivery System (EDS) pipeline to salt cavern storage facilities being developed across the North Saskatchewan River at the Provident Redwater Fractionation facilities. The new pipeline segment, called the Redwater Ethylene Delivery System (EDS) Lateral Pipeline, will be owned by AltaGas Extraction and Transmission Limited Partnership and be licensed, constructed and operated by NOVA Chemicals.

The proposed High Vapour Pressure Redwater EDS lateral pipeline will be approximately 6.5 km in length, with an 8-inch (219.10 mm) outside diameter. Located within the Strathcona and Sturgeon counties, the proposed route is largely on industrial land and will run in a new NOVA Chemicals' pipeline right-of-way. Up to three pipelines may be installed simultaneously under the North Saskatchewan River using horizontal directional drilling. One will become part of the proposed Redwater EDS lateral pipeline, with the two spare river crossing pipelines remaining in a discontinued state until required for future use.

As a Responsible Care® company, we are committed to demonstrating superior performance concerning safety, health, and environmental standards. As in all of our operations, proposed construction activity will be conducted with the utmost consideration for public safety, landowners adjacent to our facilities, and environmental integrity.

This Public Disclosure document provides a detailed description of the proposed pipeline project. The NOVA Chemicals' *TAKING CARE...along the pipelines we operate* guide for landowners and neighbours provides additional information about our broader pipeline operations. These documents, and related updates, are also posted on our website: [www.novachem.com/Joffre](http://www.novachem.com/Joffre) under 'News Room'.

We look forward to hearing from you and are committed to work with stakeholders in identifying and, wherever possible, addressing concerns or interests through all phases of the project. You can contact us as outlined on the adjacent page.

Yours sincerely,

NOVA Chemicals Corporation



Connie George  
Project Manager



Al Tudhope  
Pipeline Business Team Leader

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## Project Description Highlights

- The existing EDS pipeline, in operation for more than 30 years, is used to transport ethylene between NOVA Chemicals' Joffre petrochemical facilities to customers in Fort Saskatchewan. Ethylene is used by our customers to produce a variety of consumer and industrial products.
- The EDS pipeline has historically used salt cavern storage at Fort Saskatchewan in order to maintain a continuous, uninterrupted ethylene flow from the Joffre petrochemical facilities to the Fort Saskatchewan industrial market. This project is designed to ensure the ongoing effective and continuous ethylene delivery to our customers in Fort Saskatchewan.
- The route for the proposed new Redwater EDS Lateral Pipeline is approximately 6.5 km in length and runs between an existing pig-trap on the Shell Scotford industrial site (LSD 01-32-055-21W4M) in Strathcona County, and a new pig-trap (LSD 6-32-055-21 W4M) at the Provident Redwater Fractionation Facility in Sturgeon County.
- The proposed lateral pipeline segment will transport ethylene to and from the salt caverns through an 8-inch (219.10 mm) diameter High Vapour Pressure pipeline.
- An additional 8-inch pig-trap and a new block valve and control building will be installed on the current NOVA Chemicals pig-trap lease located on the Shell Scotford industrial site.
- An 8-inch pig-trap will be installed at the connection to salt caverns under development at the Provident Redwater Fractionation Facility.
- The product transported by the proposed pipeline will not have any H<sub>2</sub>S content (0.00 mol/kmol or 0.00% concentration of hydrogen sulphide).
- Up to three river-crossing pipelines may be installed simultaneously near other pipeline crossings under the North Saskatchewan River, using horizontal directional drilling. One will become part of the proposed Redwater EDS Lateral Pipeline, with the two spare river crossing pipelines capped and licensed as *discontinued* until required.
- We will work with our pipeline contractor to minimize construction impacts on landowners and others in the area. Strict guidelines will be in place to make sure construction is carried out safely and with minimal inconvenience to landowners.
- We will meet all requirements as outlined in our Environmental Protection Plan provided to Alberta Environment and Water. We will work with landowners to minimize disturbance, and topsoil will be salvaged and replaced to maintain soil capability.
- Tie-in of the proposed pipeline segment is not expected to require an outage of the existing EDS.
- Following construction, in consultation with landowners, we will ensure disturbed lands are appropriately reclaimed as quickly as possible.
- The proposed Redwater EDS Lateral Pipeline will be owned by AltaGas Extraction and Transmission Limited Partnership and operated by NOVA Chemicals.
- The existing EDS pipeline, owned by AltaGas Extraction and Transmission Limited Partnership, will continue to be operated and maintained by NOVA Chemicals. NOVA Chemicals, a Responsible Care company, has safely operated the EDS pipeline in the same corridor for more than 30 years.

## Project Schedule

Project Planning: design, routing, environmental reviews, engineering	October 2011 to April 2012
Regulatory Applications Submitted	January 2012
Regulatory Decision Expected	February 2012
Construction Start	May 2012
Completion and Commissioning	August 2012
<b>Consultation and Communication ongoing through all phases</b>	

## Regulatory Requirements

Once stakeholder input is received, NOVA Chemicals plans to submit regulatory applications for the proposed Redwater EDS Lateral Pipeline in January 2012, including:

- An Energy Development Application to the Alberta Energy Resources Conservation Board (ERCB);
- Transport Canada Navigable Waters approval for crossing the North Saskatchewan River;
- A Water Act Approval to Alberta Environment and Water to address any wetlands that will be temporarily disturbed or permanently removed;
- County Development Permit(s) and any other permits as required.

## Your Input Is Welcome

We are seeking the input and views of landowners and stakeholders along the route of the Redwater EDS Lateral Pipeline prior to submitting project applications to regulatory agencies.

We encourage open, two-way communication with all our project stakeholders and hope to meet personally with landowners and other stakeholders to discuss the proposed project. Our Consultation Program includes open houses in the Fort Saskatchewan and Redwater regions to offer all stakeholders the opportunity to:

- learn more about this proposed pipeline project;
- discuss any concerns or suggestions you have with the Project Team; and
- provide us your input on this project or any of our pipeline operations.

## Other Information

The following information is enclosed with this project description document:

NOVA Chemicals *Taking CAER Brochure*

*Letter from the Chairman of the ERCB*

*ERCB Brochure: Understanding Oil and Gas Development in Alberta*

*EnerFAQs No. 7: Proposed Oil and Gas Development: A Landowner's Guide*

*EnerFAQs No. 15: Objecting to an Energy Resource Project and the form Objecting to an Energy Resource Project*

Some of the other publications from the ERCB that are available upon request and online at [www.ercb.ca](http://www.ercb.ca) include:

*EnerFAQs No. 1: What Is the Energy Resources Conservation Board?*

*EnerFAQs No. 2: Having Your Say at an ERCB Hearing*

*EnerFAQs No. 3: Inspections and Enforcement of Energy Developments in Alberta*

*EnerFAQs No. 4: All About Critical Sour Wells*

*EnerFAQs No. 5: Explaining ERCB Setbacks*

*EnerFAQs No. 6: Flaring and Incineration*

*EnerFAQs No. 8: Coalbed Methane*

*EnerFAQs No. 9: The ERCB and You: Agreements, Commitments, and Conditions*

*EnerFAQs No. 10: Public Health and Safety: Roles and Responsibilities of Agencies That Regulate Upstream Oil and Gas*

*EnerFAQs No. 11: All About Appropriate Dispute Resolution (ADR)*

*EnerFAQs No. 12: Oil Sands*

*EnerFAQs No. 13: Emergency Response Preparedness in the Energy Industry*

*EnerFAQs No. 14: Horizontal Multistage Hydraulic Fracturing*



## Location of Proposed Redwater EDS Lateral Pipeline Project

