



energy pathways



Practice Makes Perfect: Emergency Preparedness Drills

A large meeting room at a local hotel is buzzing with activity like a beehive. Today our employees and community members have come together to coordinate a response to an incident at one of our facilities. The hotel room is Kinder Morgan Canada's incident command post and everyone here has an important and clearly defined job to do. Time flies as teams identify emergency response techniques, develop communications, and order equipment and resources. Today our staff's knowledge and critical thinking are put to the test. One more faculty, however, is called upon during the day — imagination. Because, as you might have already guessed, this is a drill.

What are tabletop drills?

These emergency response exercises, known as tabletop drills, typically take place in an office setting, unlike deployments of equipment and staff staged in the field. During a tabletop exercise, our staff enact a mock response scenario using the Incident Command System (ICS), an internationally recognized and adopted standard in emergency response management. Participants learn and practice ICS and their respective roles within the system, as well as cross-train for roles outside of

their usual function. During a typical one-day tabletop, the trainees work through the first eight hours of a mock incident scenario revealed to them on the morning of the drill. At the end of the day, they sum up their exercise experience and talk about what worked and what could have been done more effectively.

On average, we engage in seven tabletops per year with varying geographic locations and incident scenarios. Locations are selected along our pipelines and near our terminals and pump stations.

The drills are facilitated by an experienced emergency response consultant, and often include community members — fire departments, government officials and First Nations.

Regular training

Tabletops and deployments are an integral part of our emergency



response plans. The plans provide a solid framework to ensure efficient resource allocation and priority setting in the unlikely event of an incident. The plans include provisions for any level of emergency, from a small pipeline leak in a remote rural location to an incident at one of our terminals in a populated urban area. The plans outline steps such as a shutdown of the facility or a pipeline, deployment of response crews and equipment, and communications.

However, all plans need practice. Regular and frequent emergency response training provided to all our key operational and support staff ensures we are prepared to address any emergency.



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British Columbia's Key Export Commodity

Vancouver Wharves is a major link in copper concentrate exports

Do you know what the Toonie, electrical wire, plumbing fittings, and the roofs of the Parliament Buildings in Ottawa have in common? They are all made of, or contain, copper. Have you ever wondered where the metal comes from?

Uses of copper

Due to its exceptional properties, such as longevity, resistance to corrosion, high electric and heat conductivity, copper has been an essential material to many civilizations for centuries. Ancients used it in weapons, tools and jewelry. In modern day, copper applications range from electrical and plumbing to architecture and art.

Production and processing

Copper occurs in nature mostly in the form of copper ore deposits; and its extraction from raw materials includes a number of stages — mining, concentrating, smelting and refining. Because mined copper ores may contain less than one per cent of copper, they undergo further processing, or concentrating. The crushed ore is ground and mixed with water and chemical additives. Then the unwanted materials are physically or chemically separated, and the water drained and recycled. The resulting material is

copper concentrate with significantly increased copper content.

Vancouver Wharves role in copper concentrate exports

British Columbia is one of the two largest copper producing regions in Canada, copper concentrate being a key export commodity for the province. The majority of copper concentrate produced in B.C. is shipped to smelters in Japan, China and India. But before the product arrives at its final destinations overseas, it is transported by railcars and trucks to our Vancouver Wharves bulk terminal where it is loaded onto ships.

Our Vancouver Wharves terminal, located on the North Vancouver waterfront, has a long history of providing export services for copper mines in B.C. Currently, the terminal receives copper concentrate from four producing mines in the province. The product is stored in two large warehouses with a total storage capacity of more than 100,000 tonnes.

This year, Vancouver Wharves is building additional storage to accommodate production from two new copper mines. The terminal handles more than 500,000 tonnes of copper concentrate, and loads up to 40 marine vessels with the product each year.



Vancouver Wharves

April is Safe Digging Month

With the arrival of spring comes the start of the annual gardening season. Many of us begin planning our garden or landscape projects at this time. April is safe digging month. It serves as a reminder that there could be a complex network of underground utilities below your lawn. Striking one of them could put your safety at risk.

Before you get out your shovel, first make a BC One Call. Once you give BC One Call the details of your planned activity, they will contact their member companies to let them know of your intention to dig. If your activity is near one of our pipelines, our representative will call you back within three business days to provide you with the information you need to safely complete your project. Digging safely is not just for professionals. Support the safe digging month by first making a One Call. For more information, visit www.bconecall.bc.ca.

Our new Canadian pipeline safety web content goes live

At Kinder Morgan Canada, we are committed to keeping our facilities safe and protecting the public and the environment. We also believe that pipeline safety is a shared responsibility. Therefore, we are pleased to offer fresh new content on our website to provide you with information about how we can achieve safe and reliable pipelines together.

By visiting our new website section on pipeline safety and damage prevention at www.kindermorgan.com/pipelinesafety, you will learn:

- How to work safely near our pipelines
- How we maintain the integrity and safety of our pipelines
- Why you should always Call Before You Dig
- and much more.

We value your opinion. Please fill out our online survey at www.kindermorgan.com/pipelinesafety to tell us what you think about our new website.

BC One Call

New changes mean mandatory One Call membership for OGC regulated pipeline companies

Last fall the BC Oil and Gas Commission (OGC) updated its regulations and mandated that any pipeline company under its jurisdiction must have a Damage Prevention program in place and become a member of BC One Call. BC One Call is a service that processes requests for the location of buried facilities and is free to homeowners and contractors. As a nonprofit organization, BC One Call is supported by the notification fee paid by its members.

“This is excellent news,” says Darlene Dyson, Operations Manager for BC One Call. “We understand that out of approximately 210 pipeline companies in B.C. only 40 are currently members of BC One Call.”

The OGC mandate is to have 80 per cent of pipelines compliant within one year. To facilitate the anticipated workload, BC One Call has implemented an online membership program. Depending on the infrastructure, adding a new utility can take as little as a few days or, in the case of a larger system, a few months.

“This is all about safety,” Dyson stresses. “What people don’t realize is that there is a vast network of underground facilities that could be accidentally hit. Calling BC

One Call first not only saves you time and money, but it also ensures the safety of your workers.”

Hugh Harden, Kinder Morgan Canada’s Vice President of Operations and a BC One Call Director agrees: “We want to do everything possible to prevent others from striking our pipeline. Membership in BC One Call is a smart investment that generates invaluable savings for us.”



For more information on BC One Call visit www.bconecall.bc.ca.

Vegetation Management

Why it is important to keep pipeline rights-of-way clear

Plants play an important role in our lives and the environment. They provide essentials for our physical and emotional well-being from food to oxygen to aesthetics. However, if allowed to grow uncontrollably, the wrong plants in the wrong spot may pose a serious risk to public safety.

Pipeline rights-of-way are one of the instances where excessive and overgrown vegetation presents a

Safety is our top priority, and vegetation management is an integral part of our Damage Prevention and Integrity Management program. We use a variety of methods to control and maintain vegetation on our rights-of-way. Selection of the vegetation management methods depends on specific conditions and applicable regulations; and in each case, we strive to minimize impact of these activities on the environment and human health.

As part of our vegetation management program, we mow grass and low growing vegetation annually on those sections of the right-of-way that have not been landscaped by a landowner. If a right-of-way is landscaped by a landowner, he or she is responsible for the appropriate use and maintenance of the area. Sometimes it is necessary for us to remove brush or trees that have grown beyond a safe level. In such cases, we work closely with affected landowners.

To assist landowners with landscaping decisions and provide information on land uses compatible with

the right-of-way, we have developed *Landscaping Guidelines* and *Guide to Pipeline Safety* available at www.kindermorgan.com/business/canada under *Canadian Publications*. For more information about our vegetation management program and appropriate land uses on the right-of-way, please call us at (888) 767-0304.

Planting on the right-of-way requires a permit. Contact our Pipeline Protection Department at (888) 767-0304 to learn more.

safety hazard. A pipeline right-of-way is a strip of land typically 18 metres wide containing one or more buried pipelines. To ensure safe and reliable pipeline operations and to comply with regulations, we must maintain a clearly marked right-of-way, free of trees and tall growing vegetation. These measures help us prevent damage to the pipeline; ensure public safety; and provide access for maintenance and repairs, aerial and ground visual inspection, pressure testing and emergency response.



Pipeline right-of-way in urban area

Leadership Exchange

Kinder Morgan Canada's President and First Nation's Chief walk a mile in each other's shoes

In January 2011, the Industry Council for Aboriginal Business (ICAB) marked the first anniversary of the new Leadership Exchange Program. A first in Canada, the exchange was piloted in the fall of 2009 by ICAB in partnership with the Learning Strategies Group at Simon Fraser University. The 2009 – 2010 program involved six Aboriginal and non-Aboriginal leaders who were paired up to experience each other's corporate and communal worlds firsthand.

Our President Ian Anderson and his partner Chief Kim Baird of Tsawwassen First Nation (TFN) spent six days over the course of several months in their respective environments. Through the exchange, Ian gained a better appreciation of the differences that exist between industry and Aboriginal approaches to commercial discussions, as well as TFN's focus on translating its commercial

and industrial opportunities into education, employment, and social value for the community. In turn, Chief Baird learned about our industry and operations. She enhanced her knowledge of business decision making, which would help her identify the alignment of interests when dealing with business in the future.

The relationship established between Ian and Kim has evolved to include closer working ties between our staff and TFN employees. In particular, Kinder Morgan Canada



Ian Anderson and Chief Kim Baird

(KMC) and TFN signed a two-way secondment agreement that will provide both parties with ongoing access to each other's employee experience and expertise in relevant areas, as a means to building and developing capacity within the TFN community and KMC.

Meet our Staff

Wayne Arcand, Manager Emergency Response and Security

Almost three decades ago, Wayne began his career with Trans Mountain Pipeline (now owned by Kinder Morgan Canada (KMC)) as a pump station operator in Kamloops. Today, he is Manager Emergency Response and Security for KMC and is located in Burnaby, B.C. The biggest part of his job is managing our Emergency Response program that covers the Trans Mountain Pipeline, Express Pipeline (Canada and US), Platte Pipeline (US), Westridge marine terminal, and Edmonton and Vancouver Airport terminals. Wayne is also responsible for the component of the program that addresses security at our facilities and ensures compliance with security legislation.

Although Wayne took on his current responsibilities in the fall of 2010, he is highly conversant with KMC's emergency response plans thanks to his previous role as Supervisor Operations at the Burnaby and

Westridge terminals. During the last 13 years, he has been actively engaged in emergency response training and served as Incident Commander in real life events. These experiences have taught him that, in case of an incident, thinking proactively and strategically is critical for a quick and efficient response. This is where the efforts invested in the emergency preparedness program and training pay off. "Being prepared is key. It reduces uncertainty and stress in an emergency, and helps meet the challenges more effectively," says Wayne. "My current role allows me to focus on improving our emergency response program and aligning it with ever changing regulations and technology."



Wayne Arcand

When asked about his interests outside of work, Wayne chuckles "It is all work for me, no play." He is joking, of course. Wayne's high energy fuels an array of hobbies that would surely overrun the space available for this article. Walking, running and hiking are a big part of his life. He and his wife walk 42 km a week, and Wayne regularly participates in the Aloha 10K run and the Sun Run. His active lifestyle and love for water meet in yet another passion — surfing. Twice a year he retreats to Hawaii to catch the wave. But nothing beats his next adventure: at the time of writing this article, he is planning a 'retreat' to a shark cage! Good luck, hold tight and don't let that shark bite!



Trans Mountain Legacy Fund: a Lasting Environmental Benefit

Kinder Morgan contributes \$3 million to environmental projects in Jasper and Mount Robson Parks

In January 2011, we reached an agreement with Alberta Ecotrust Foundation for them to administer the Trans Mountain Legacy Fund, as directed by a multi-stakeholder steering committee.

In 2004, as part of our Trans Mountain Pipeline Anchor Loop project

through Jasper National Park and Mount Robson Provincial Park, we committed to a \$3 million net ecological benefit fund known as the Trans Mountain Legacy Fund. Of this, the parks each received \$350,000 directly for initiatives significant to them. The remainder (approximately \$2.1 million) will fund initiatives that create significant environmental benefits, which would more than compensate for the environmental impact of the Anchor Loop project. The efforts will focus on maintaining and enhancing wildlife habitat, particularly for water species and large carnivores. Projects are expected to be completed by the end of 2014.

The award winning Anchor Loop was a challenging and highly scrutinized project completed with excellence through the UNESCO designated Rocky Mountain Parks World Heritage Site. The agreement with Alberta Ecotrust is a significant milestone in the delivery of the Trans Mountain Legacy Fund and is consistent with our commitment to leaving a lasting, positive environmental legacy on project completion.

- **Anchor Loop Project** was successfully completed in 2008 increasing the capacity of Trans Mountain Pipeline (TMPL) to 300,000 barrels per day. It twinned a 160-km section of the existing TMPL between Hinton, Alberta, and west of Mount Robson Provincial Park. The project received the 2010 Alberta Emerald Award in recognition of its environmental stewardship.
- **Alberta Ecotrust Foundation** is a unique partnership between the corporate sector and the environmental community whose purpose is to support stronger and more sustainable communities.
- **The Steering committee** is represented by Canadian Parks and Wilderness Society, Fraser Headwaters Alliance, Ministry of Environment (BC Parks), Parks Canada (Jasper National Park) and Kinder Morgan Canada.



Anchor Loop construction through Mount Robson Provincial Park

We would like to hear from you

Please send your comments to: externalrelations@kindermorgan.com or via mail to External Relations, 7815 Shellmont St, Burnaby, BC V5A 4S9. We appreciate your feedback. Thank you.



Community Corner

Stoney Creek restoration project

Last fall, we engaged community partners in the 'Stream of Dreams' eco-education and stream restoration project in Burnaby, B.C. The project was dedicated to memory of a longtime Stoney Creek stream keeper, Jennifer Atchison, who lost her battle with cancer earlier in the year. More than 50 students from Stoney Creek Community School participated in replanting of native species to

of arts and educational projects in B.C.'s Lower Mainland including West Vancouver Youth Band; Forest Grove Elementary School in Burnaby; the Literacy Enhancement Project run by Little Mountain Neighbourhood House in Vancouver; and the Coastal Sound International Choral Festival in Port Moody. For more information about our charitable giving, visit www.kindermorgan.com/community.

Supporting local schools

Last year, we supported educational and safety projects at two neighbouring schools: Forest Grove Elementary and Gilpin Elementary. Forest Grove School purchased necessary tools and seeds to help students start their own vegetable garden. Gilpin Elementary purchased supplies for their emergency kiosks project.



Fence mural at Stoney Creek School

enhance the local stream. A colourful mural created by the students on a fence surrounding the replanted area will serve as a reminder that taking care of our waterways is everyone's responsibility.

Supporting arts and education

In 2010, the Kinder Morgan Foundation supported a number



KM Canada contributes to Gilpin Elementary

2011 EVENTS

Watch for us in the community:

Great Salmon Send Off - May 7

The Great Salmon Send Off, an annual event organized by the Stoney Creek Environment Committee:
10 a.m. to 2 p.m., May 7, 2011
Stoney Creek Community School
2740 Beaverbrook Crescent,
Burnaby, BC

Giro di Burnaby - July 14

The Giro di Burnaby short course bike race is part of BC Superweek and is back this year. Our Team Kinder Morgan volunteers will support the Giro di Burnaby and we are pleased to be a bronze sponsor of the event.

Photos: top left - Stoney Creek replanting; top right - the Kinder Morgan Foundation contributes to the Little Mountain literacy enhancement project