



Foothills Pipe Lines Ltd. Customer Meeting

March 5, 2020



Housekeeping items

Safety:

- In case of emergency, use the nearest exit
- Muster point - across the street at 5th Avenue Place

Participating via WebEx:

- Please sign-in through WebEx application including your full name and company
- To reduce background noise and improve audio quality, all WebEx participants will be placed on mute
- Please submit your questions via the chat function and the moderator will ask your question

Safety moment – Fatigue mitigation and sleep

FATIGUE is dangerous to an employee’s health and wellbeing, and can have a negative impact on their work performance.

Tips for improving your sleep quality and quantity include:



Make a cave

Your sleep environment should be cool, dark, and quiet. Use light blocking shades, sound machines, and earplugs, to create your own “cave”.



Have a routine

Keep your awake time consistent and ensure you have a bedtime that will allow you to get the recommended 7-9 hours of sleep. Create a relaxing pre-sleep routine; this can include taking a bath, reading a book, or practicing relaxation exercises.



Beware of light exposure

Exposure to sunlight during the day and darkness at night helps maintain a healthy sleep-wake cycle. Limit exposure to bright light for at least 30 minutes before bed; this includes electronic devices, such as phones and tablets.



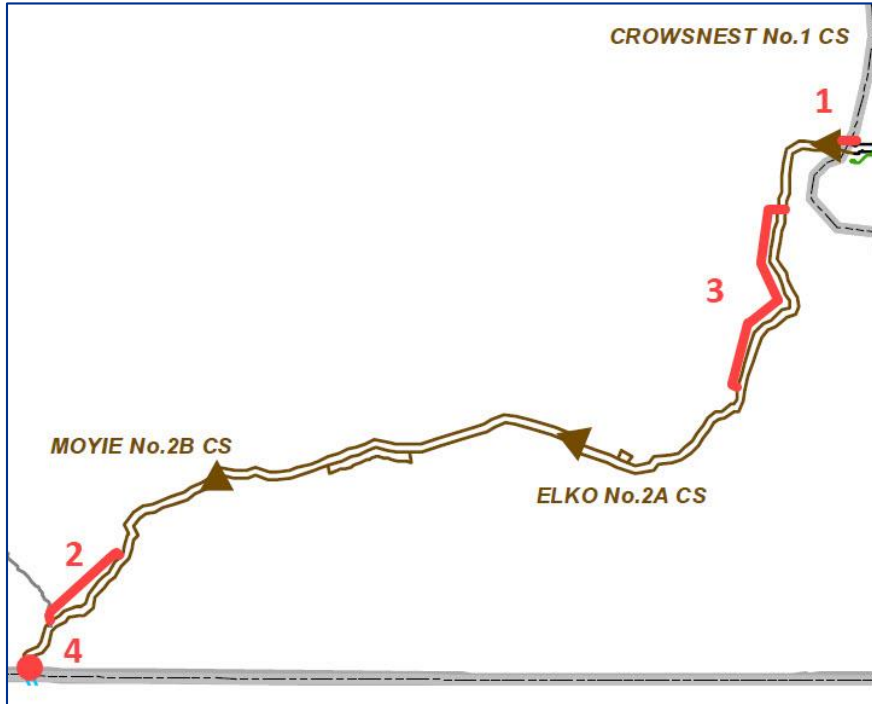
Exercise regularly

Engaging in at least 30 minutes of moderate aerobic exercise during the day can improve your sleep quality that same night!

Agenda

- 1 Foothills BC (FHBC) Expansion – Facilities Update
- 2 Foothills BC (FHBC) Expansion – Alternative Analysis
- 3 Estimated Abandonment Costs
- 4 Illustrative Toll Impact on Foothills BC

Proposed Mainline Facilities for Area Demands (FHBC)



LEGEND:	
●	Proposed Facility
▲	Proposed Compressor
—	Proposed Pipe

<u>MAP I.D.</u>	<u>FACILITY</u>	<u>DESCRIPTION</u>	<u>TARGET IN-SERVICE DATE</u>	<u>CAPITAL COST (\$Millions)</u>
FHBC Export Expansion Tranche 1				
1	BCML Loop Crowsnest Section	4 km NPS 48	Nov-22	93
2	BCML Loop Yahk Section	13 km NPS 48	Nov-22	133
FHBC Export Expansion Tranche 2				
3	BCML Loop Elko Section	31 km NPS 48	Nov-23	305
4	Kingsgate Meter Station Expansion		Nov-23	7

Approved Applied-for To Be Applied-for

Proposed Mainline Facilities – Kingsgate Export (FHBC)

Purpose:

- Increase capability to transport gas to growing markets

Scope:

- 17 km NPS 48 for 2022
- 31 km of NPS 48 for 2023

Estimated Cost:

- Total: \$226 Million (2022) & \$312 Million (2023)

Capacity:

- Expected Existing FHBC Capacity 2022: ~ 78,800 10³m³/d (2,980 TJ/d)
- Incremental Capacity (Tranche 1): ~ 2900 10³m³/d (110 TJ/d)
- Expected Existing FHBC Capacity 2023: ~ 81,700 10³m³/d (3,090 TJ/d)
- Incremental Capacity (Tranche 2): ~ 4300 10³m³/d (160 TJ/d)

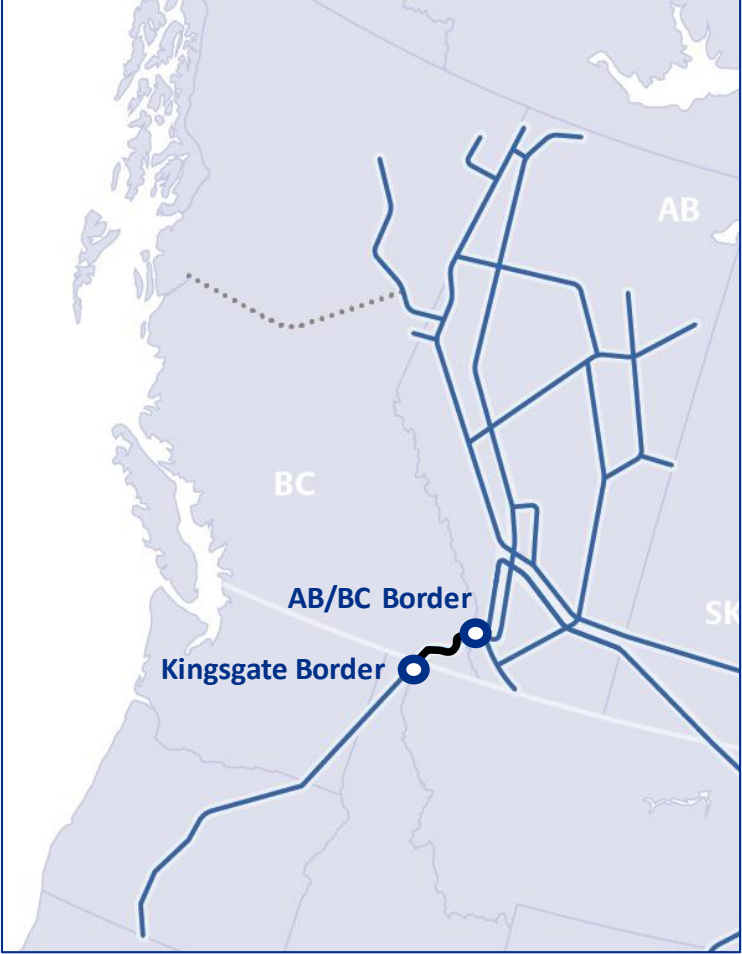
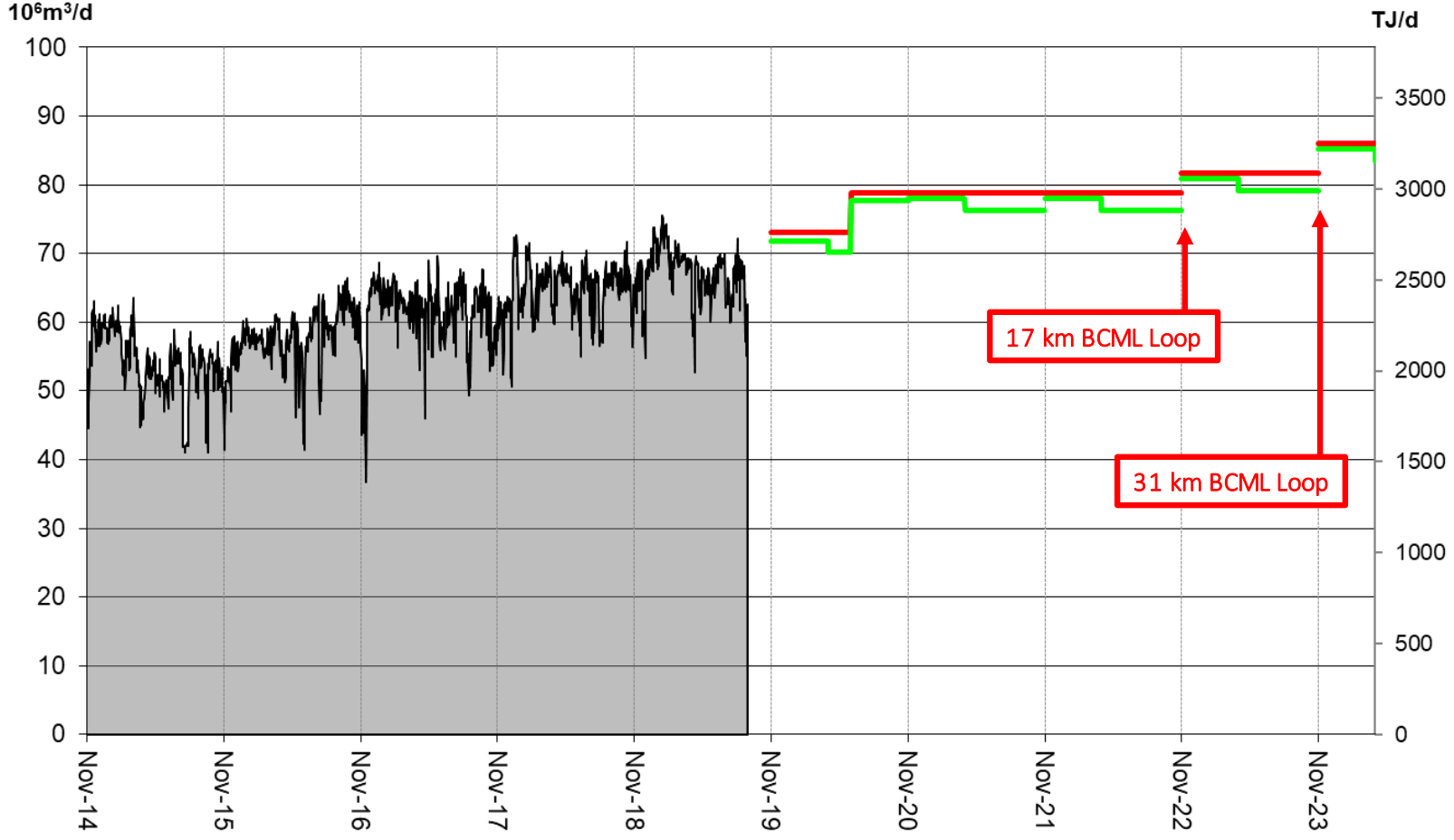
Incremental Contracts:

- 108 TJ/d for Nov 2022
- 162 TJ/d for Nov 2023

Schedule:

- Two applications in 2020
 - CER s.214 Application (2022 on-stream)
 - CER s.214 Application (2023 on-stream)
- In-service Nov 2022 and Nov 2023

Foothills BC Delivery Design Chart



Historical FHBC Delivery Flow
 Design Capability
 FHBC Evergreen Contracts

FHBC Export Expansion – Alternative Analysis

A compression alternative was not an option for the following reasons:

- Compression was at or near MOP
- Looped piping addresses areas with significant pressure loss

Estimated Future Abandonment Costs

- \$5.6 million estimate to abandon the proposed facilities
- Specific abandonment approach and cost estimate will be updated when an application to abandon these facilities is filed in the future

Illustrative Toll Impact – FHBC

Toll/Revenue impact assessment based on the following:

- Total capital costs: \$226 Million (2022) & \$312 Million (2023)
- Subject to change before filing

	2022	2023	2024	2025	2026	2027	Average Toll Impact (2022–2027)
Illustrative Toll Impact (¢/GJ/d)	(0.4)	1.5	5.0	5.0	4.9	4.9	3.5

Contacts

Customers are asked to advise TC Energy of any objections. If no objections are received from customers in advance of the application, TC Energy will state in its application “TC Energy has informed the shippers and is not aware of any objections”

Darryn Rouillard

Manager, Mainline Planning West

403.920.6341

darryn_rouillard@tcenergy.com

Kevin D’Souza

Foothills Chair, Collaboration West

403.920.7915

kevin_dsouza@tcenergy.com

Penelope Echenagusia

Manager, Commercial West Rates and Services

403.920.5396

penelope_echenagusia@tcenergy.com