



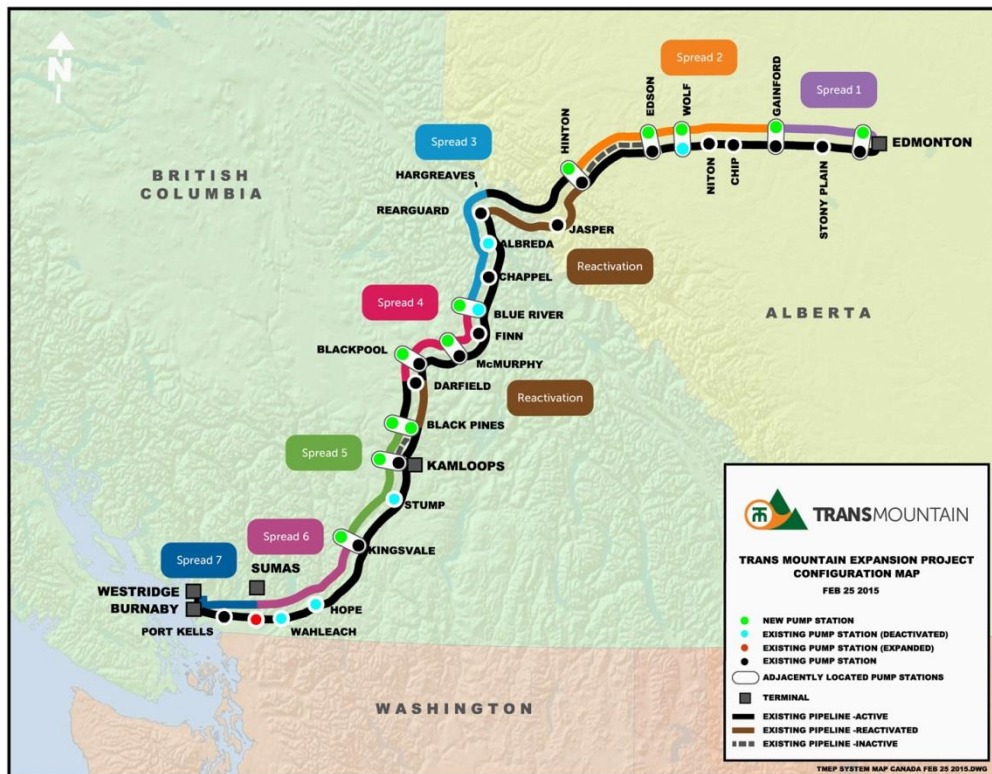
Trans Mountain Expansion Project Project Update and Construction Plans District of Barriere

February 21, 2017



TRANSMOUNTAIN

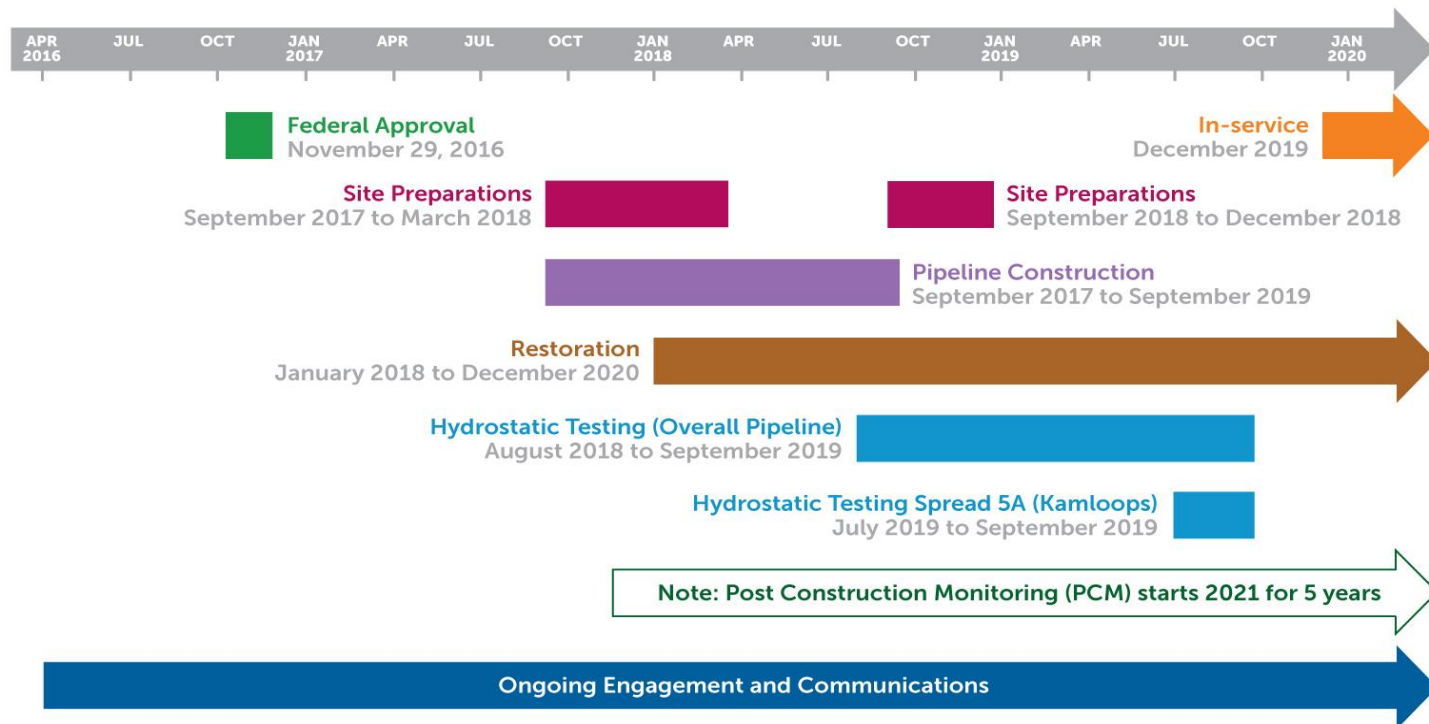
Trans Mountain Expansion



- \$6.8-billion capital cost*
- Expand capacity to 890,000 bpd
- Project scope
 - 980 kms new pipe
 - 12 new pump stations
 - 19 new tanks
 - 3 new tanker berths
- Increase in tanker traffic – not tanker size
- Westridge and Burnaby Terminals construction
- Project has received approvals
- 15- and 20-year contracts with shippers
- \$8.5-million Community Benefit Agreements

*Actual Project costs may change

Trans Mountain Construction Schedule*



Federal Approval • Governor in Council approved the Project following a positive recommendation from the National Energy Board in May 2016

Site Preparations • Line sweep, clearing, access

Pipeline Construction • Haul, string, weld, lower-in, tie-in

Restoration • Cleanup, remove access, reclamation, monitoring

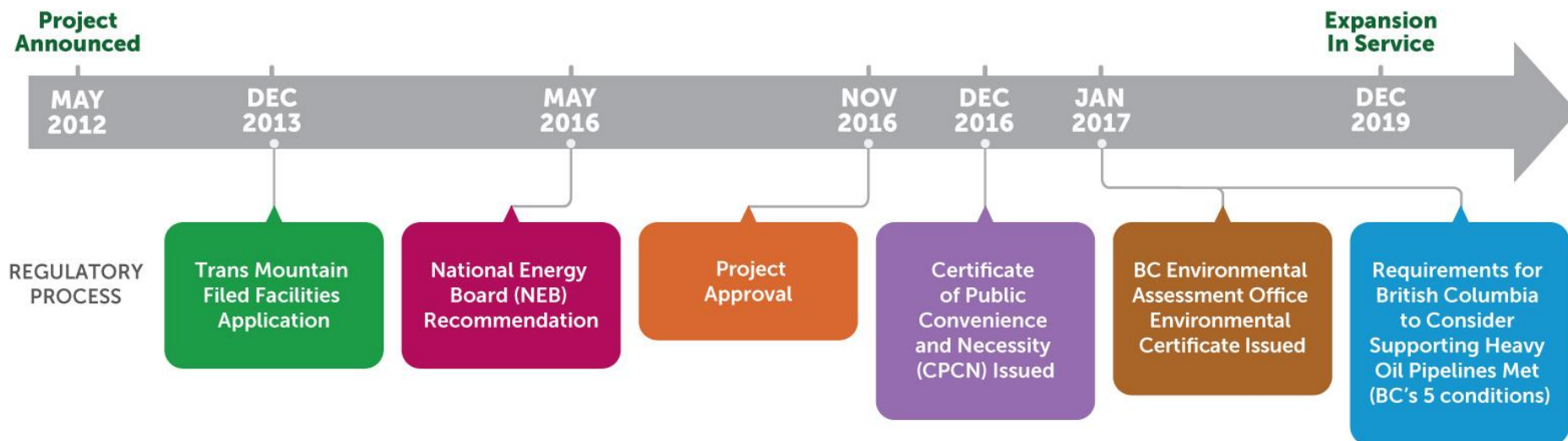
Hydrostatic testing

In-service

February 2017. Subject to change.

*This schedule is subject to change based on detailed construction planning and regulatory timelines.

Regulatory Process*



*This schedule is subject to change based on detailed construction planning and regulatory timelines.

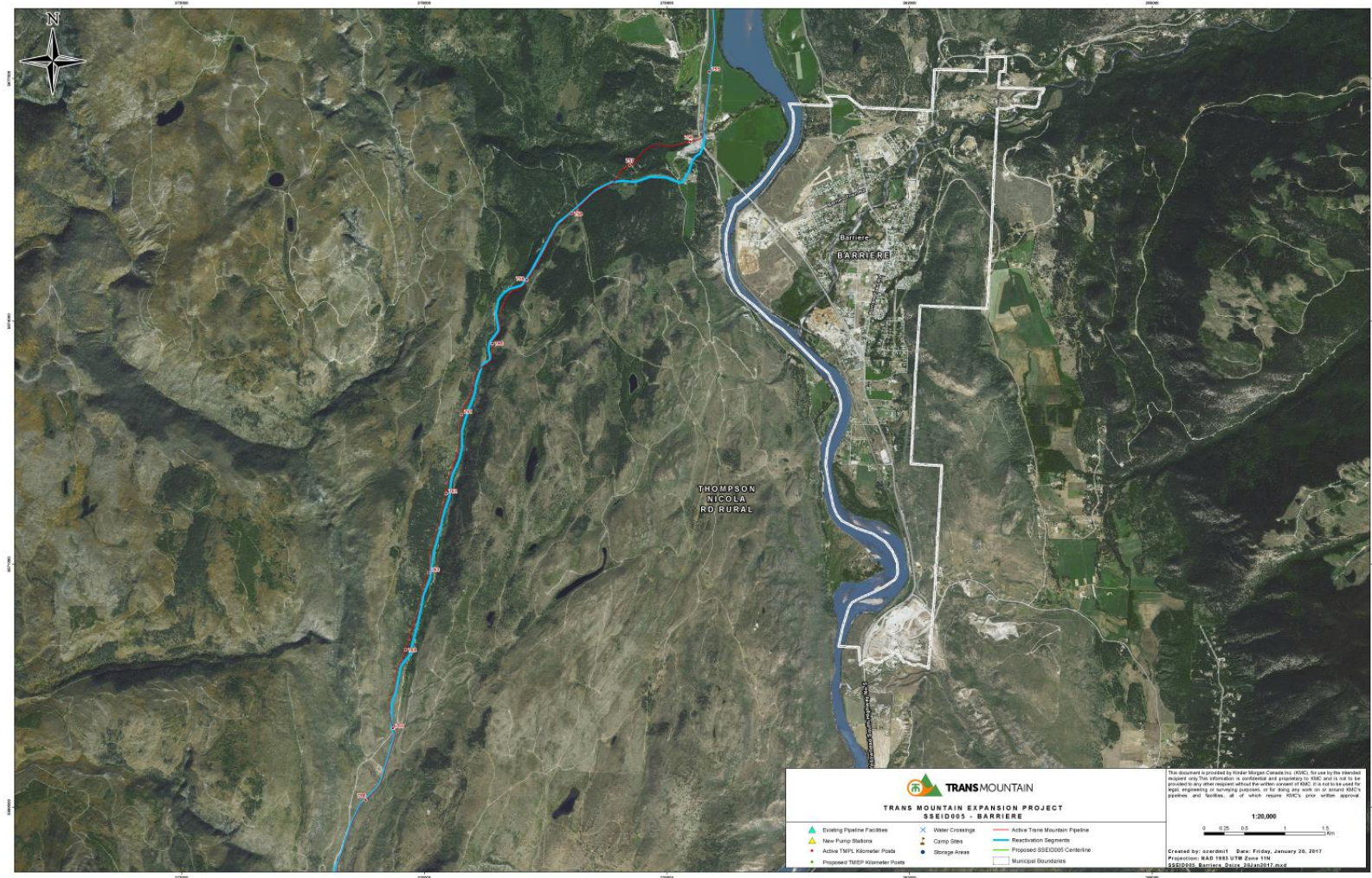
Project Conditions



- 157 – NEB
- 37 – British Columbia Environmental Assessment Office (BCEAO)
- Variety of filing deadlines from pre-construction to operations
- Commitments (NEB Condition 2)
 - 1,000 commitments to stakeholders and communities



Construction Proximate to Barriere



Construction Barriere Region



Spread 4

- September 2017
 - Clearing
 - Temporary Sites
- June 2018 – June 2019: Pipeline Construction
- March – September 2019: Testing and Valve Installation

Reactivation

- May 2017 – January 2019
Darfield-Blackpines

Typical Pipeline Spread

47 Management

24 Foreman

26 Straw Boss

12 Mechanic

130 Equipment Operator

52 Driver

19 Coater/Sandblaster

31 Welder

31 Welder's Helper

20 Labourer Plus

145 Labourer

8 Tester

6 Medical and Security

35 Direct pipe/HDD

Job Opportunities



- Trans Mountain is committed to providing opportunities for Aboriginal, local and regional residents
- Workers will be hired through contractors
- Contractors developing Employment Plans for approval by TMEP
- Contractors will actively recruit in advance of construction
- Interested individuals can register their interest at www.transmountain.com/jobs



Procurement Opportunities

- Trans Mountain is committed to providing Project-related business opportunities to Aboriginal, local and regional groups
- \$4.5 billion anticipated in goods and services required
- Anticipated contracting opportunities:
 - Contracting Services
 - Professional Services
 - Materials/Equipment
 - Support Services



Procurement Opportunities

- Contractors developing Procurement Plan for approval by TMEP
- Contractors will award contracts to selected services and suppliers
- Register interest at www.transmountain.com/procurement



Project Status and Next Steps

- Q1 / Q2 2017:
 - Final cost estimate review with shippers
 - Final investment decision (FID) by the Kinder Morgan Board of Directors
- Q1 – Q3 2017: Continue to refine engineering, complete field work and planning for construction execution
- Q2 2017 – Q1 2018: Contractors Employment and Procurement Plan implementation.
- September 2017: Construction start – clearing, temporary sites and HDDs of high-risk crossings
- Late 2019: In-service
- 2019 – 2020+: Reclamation and post-construction monitoring

Discussion Tables



- Jobs
- Procurement

We Want To Hear From You



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