
Licence No. 954891

File No. 9000174

THIS AGREEMENT is dated for reference April 1, 2021.

BETWEEN:

OIL and GAS COMMISSION, a corporation continued under the *Oil and Gas Activities Act*, S.B.C. 2008, c.36, an agent of Her Majesty the Queen in Right of the Province of British Columbia, having its offices at 6534 Airport Road, Fort St. John, British Columbia V1J 4M6

(the "Commission")

AND:

TRANS MOUNTAIN PIPELINE ULC (Inc. No. A0070893)
2700, 300 – 5th Avenue, SW
Calgary, Alberta T2P 5J2

(the "Licensee")

WITNESS THAT WHEREAS:

The Commission and the Licensee entered into a Licence of Occupation dated August 10, 2018 under Licence No: 954891 (herein called the "Tenure")

The parties desire to amend the Tenure as follows:

- a) to correct the land type of an area of pipeline from Private to Crown and add two new workspaces, increasing the area from 459.17 hectares **to 459.312 hectares**

The "land" now means:

Crown Land within the Omineca and Thompson/Okanagan Districts, (along construction corridor from b-20-B/83-E-3 to a-35-F/83-D-3), containing 459.312 hectares, more or less, as identified in the spatial data submitted to the Commission in permit application 100100221, on April 12, 2017 and in the spatial data submitted to the Commission in amendment application 100113029 on March 17, 2021;

The Schedule A – Additional Conditions now read:

Approved Disturbance Footprint: 459.312 ha

As attached to the Licence of Occupation document, dated August 10, 2018 on file at the Oil & Gas Commission.

The parties have agreed to amend the Tenure.

NOW THEREFORE in consideration of the premises, and of the covenants and agreements herein contained, the parties hereto mutually covenant and agree as follows:

1. In all other respects the Tenure shall remain in full force and effect and is hereby ratified and confirmed.
2. Time shall continue to be of the essence in this agreement and the Tenure.
3. This agreement shall ensure to the benefit of and be binding upon the parties hereto and their respective successors and permitted assigns.

The parties hereto have executed and delivered this agreement as of the day and year first above written.

SIGNED on behalf of the **OIL and GAS COMMISSION**
by a duly authorized signatory



Authorized Signatory – Lori Phillips,
Authorizations Manager, Applications

SIGNED on behalf of **TRANS MOUNTAIN PIPELINE ULC**
by a duly authorized signatory

Authorized Signatory

SCHEDULE A – ADDITIONAL CONDITIONS

Approval Holder: Trans Mountain Pipeline ULC
Application Submitted Date: March 17, 2021
Application Area Number: 100113029
Application Determination Number: 100100221
Approved Amendment Disturbance Footprint: 459.312 ha

Activity Area

1. The approvals granted under this Agreement to occupy and use the Land are limited to the areas identified in the spatial data submitted to the Commission in the permit application as identified in the following table:

CER Pipeline Right of Way No.: 000024482 Land Area No.: 100016206 From: b-020-B / 083-E-03 To: a-035-F / 083-D-03	Segment No: 001	Tenure No.: 9000174 Document No.: 954891
CER Ancillary Activity No.: 00212594 and 00212595	Type: Workspace	

2. The approvals to occupy and use the Land identified in the above table activities must not exceed the total approved disturbance footprint as referenced above.

Notification

3. A notice of construction start must be submitted, as per the relevant Commission process at the time of submission, at least 48 hours prior to the commencement of activities under this Agreement.
4. The approval holder must notify any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur at least five (5) working days prior to project commencement.
5. On or before April 30 of each year until construction is completed, you must submit to the Commission an interim post-construction plan as a PDF plan accurately identifying the location any roads constructed under this approval during the preceding year (April 1 to March 31).
6. Within 60 days of the completion of construction activities under this approval, you must submit to the Commission a final post-construction plan as a shapefile and PDF plan accurately identifying the location of the total area actually disturbed under this approval.

Environmental

7. Construction activities must not result in rutting, compaction or erosion of soils that cannot be reasonably rehabilitated to similar levels of soil productivity that existed on the operating area prior to the construction activities taking place.
8. Any temporary access must be constructed and maintained in a manner that provides for proper surface drainage, prevents pooling on the surface, and maintains slope integrity.
9. You must make reasonable efforts to prevent establishment of invasive plants and organisms resulting from the carrying out of activities authorized under the Agreement.

10. To protect karst features you must:
 - a) prior to construction, ensure a qualified professional completes an assessment identifying any mapped karst features within 150 m of approved activities,
 - b) submit a report, satisfactory to us, identifying the results of the assessment, including any potential impacts to a karst feature and any planned mitigation of those impacts, and
 - c) implement the mitigations, if any, specified in the report under b).
11. Except with leave of the Commission, the temporary or permanent storage of acid rock within the operating area is not authorized under this approval.
12. Immediately prior to conducting any clearing or significant maintenance activities between November 1 and April 15, the approval holder must have a Qualified Environmental Professional survey for any bear dens located within 250 metres of that activity.
13. Except with leave of the Commission, the approval holder must not undertake construction or significant maintenance activities within 250 metres of any active bear den between November 1 and April 15 that was identified by the survey conducted in accordance with the condition above.
14. Dust control measures must be undertaken to ensure that dust resulting from construction or maintenance activities do not affect safe travel on a road or significantly impair the use and enjoyment of lawfully occupied permanent dwellings, significant public use areas or other similar areas.
15. You must undertake reasonable measures to mitigate noise during construction activities and use of the road that has the potential to affect public safety or significantly impair the use and enjoyment of lawfully occupied permanent dwellings, significant public use areas during periods of use or other similar areas.
16. Except as shown on the construction plans or with leave of the Commission, clearing for additional work space is not permitted within old growth management areas.
17. Following completion of construction activities, you must, as soon as practicable:
 - a) decompact any soils compacted by the activity;
 - b) if natural surface drainage pattern was altered by the carrying out of the activity restore the affected area, to the extent practicable, to the drainage pattern and its condition before the alteration; and
 - c) re-vegetate any soil exposed by the activities including, where necessary, using seed or vegetative propagules of an ecologically suitable species that:
 - (i) promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun; and
 - (ii) stabilize the soil if it is highly susceptible to erosion.
18. Following completion of construction activities, any retrievable surface soils disturbed by the activity must be redistributed on the land so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.
19. The Approval Holder must ensure that any Crown land within the activity area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
20. The Approval Holder must ensure that any Crown land within the activity area is maintained free of garbage, debris and unused equipment.
21. At the completion of construction activities the approval holder must restore any identifiable trails traditionally used by First Nations that were impacted by construction, to the level of access that existed prior to construction,

if the location of the trail is made known to the approval holder by a First Nation or the Commission prior to the approval holder's notice of construction start.

Archaeology

22. If artifacts, features, materials or things protected under Section 12.1 of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under Section 12.4 of the Heritage Conservation Act (site alteration permit) in respect of that artifact, feature, material or thing, immediately cease all work in the vicinity of the artifacts, features, materials or things.

ADVISORY GUIDANCE

1. Construction Plans are for your internal reference only and were not reviewed as a decision tool for this Agreement, nor do they form an integral part of the Agreement.
2. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.
3. You should be aware that the approval under s.39 of the Land Act does not extend to Indian Reserves; parks, protected areas or recreation areas designated under the BC Parks Act; municipal Crown land; or private land.
4. You should be aware that there may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as areas of current use or cultural resources that overlap the activity area. All reasonable efforts should be made to minimize interference with those activities while carrying out the activities authorized herein.
5. Instructions for submitting notice of construction start, as required by regulation, can be found in the Oil and Gas Activity Operations Manual on the Commission's website.
6. The approval holder should refer to the Best Practices for Managing Invasive Plants on Oil and Gas Operations guide as a tool for planning for and conducting works:
https://bcinvasives.ca/documents/OGGuide_2013_FINAL.v2.pdf

February 17, 2021

Trans Mountain Pipeline ULC
2700, 300 - 5th Avenue SW
Calgary, AB T2P 5J2

Attention: Trans Mountain Pipeline ULC

RE: Amendment to Application Determination Number 100100221

Permit Holder: Trans Mountain Pipeline ULC
Amendment Date of Issuance: February 17, 2021
Amendment Effective Date: February 17, 2021
Application Submission Date: February 1, 2021
Amendment Application Number: 100112665
Approved Disturbance Footprint: 0.0 ha

AMENDMENT DETAILS

Changes In and About a Stream: 0003860	Additional section 11 authorization under the Water Sustainability Act for the pipeline crossing of a stream.
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GENERAL APPROVALS AND CONDITIONS

Water Sustainability Act

1. The BC Oil and Gas Commission (the "Commission"), under section 26(1) of the Water Sustainability Act, hereby grants an amendment to the above referenced Application Determination Number permit, as detailed in the Amendment Details table, above, subject to the original permit, any subsequent amendments and any additional or revised conditions as set out herein.
2. The approvals granted under this amendment are limited to the information indicated within the submitted application number, including any spatial data, submitted to the Commission in the amendment application as identified and dated above; herein after referred to as the "activity area".

CONDITIONS

Notification

1. A notice of maintenance activities must be submitted to OGC.ExternalNotifications@bcogc.ca, or such other address as indicated in a notice from the Commission, at least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities.
2. At least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities, the Approval Holder must provide a notice of works to any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur.

Clearing/Forest Act

3. The permit holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the activity area that are considered to be a safety hazard under applicable regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the activity area without causing damage to standing timber may be harvested.

Water Course Crossings and Works

6. Except with leave of the Commission, in-stream works must be carried out in accordance with the methods and any mitigations specified in the application.
7. Except with leave of the Commission or where the stream is dry or frozen at the time, water quality must be monitored by a qualified professional during construction or maintenance activities that involve:
 - a) construction or maintenance within a fish-bearing stream other than the installation or removal of flow isolation works;
 - b) operation of construction machinery within the riparian reserve zone of a S1, S2 or S3 stream or within 20 meters of an S4 stream.
8. Water monitoring under the above condition must:
 - a) monitor locations upstream and downstream of the location of any physical disturbance associated with the project either in-stream or in the riparian areas identified above;
 - b) identify, document and report to the Commission any exceedance of the *British Columbia Approved Water Quality Guideline: Aquatic Life, Wildlife & Agriculture* (March 2016 or as amended or replaced from time to time) (the "Water Quality Guidelines") likely caused by the construction or maintenance activities;
 - c) undertake and document measures to eliminate the cause of any exceedance identified under b) or, if the cause could not be eliminated, to minimize the duration and significance of any detrimental effects; and
 - d) make the information documented under b) and c) available to the Commission upon request.
9. Any substance, sediment, debris or material that could adversely impact the stream must not be allowed or permitted to enter or leach or seep into the stream from an activity, construction, worksite, storage site, machinery or from components used in the construction or maintenance of any works.
10. The Approval Holder must ensure all of the following for each crossing of a stream, wetland and lake:
 - a) the crossing is constructed and maintained at times and in a manner that is unlikely to harm fish or destroy, damage or harmfully alter fish habitat;
 - b) the crossing does not prevent the movement of fish, nor impede the movement of fish to the extent that it is harmful to the survival of the fish;
 - c) the side of the stream, lake or wetland is protected at the crossing; and
 - d) any disturbance to the stream channel and stream bank, wetland or lake bottom, as applicable, is mitigated.
11. Subject to the provisions of this approval, stream crossings must be constructed in accordance with the primary or contingency methods as specified in the Watercourse Crossing Table (dbs_WC_Spread3_Amendment_100112665.xlsx, uploaded 2021-02-01) submitted with the application.
12. In-stream activities within a fish bearing stream, lake or wetland must occur:
 - a) during the applicable reduced risk work windows as specified in the regional timing windows for respective regions through which the pipeline passes and within which the works will occur;
 - b) in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the National Energy Board and provided to the Commission; or

- c) in accordance with an authorization from Fisheries and Oceans Canada (DFO) that is provided to the Commission, or in accordance with DFO's Measures to Avoid Causing Harm to Fish and Fish Habitat.
13. Mechanical stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
- a) To facilitate construction of a crossing, a machine is permitted to ford the stream a maximum of one time in each direction at the crossing location;
 - b) Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings;
 - c) Notwithstanding, (b), matting or steel plates may be used to cross streams classified as NCD, S4 or S6;
 - d) The Approval Holder must ensure that permanent bridges are designed and fabricated in compliance with:
 - (i) the Canadian Standards Association Canadian Bridge Design Code, CAN/CSA-S6; and
 - (ii) soil property standards, as they apply to bridge piers and abutments; set out in the Canadian Foundation of Engineering Manual.
 - e) Except with leave of the Commission, the Approval Holder must ensure that:
 - (i) any culverts used are designed and fabricated in compliance with the applicable:
 - (a) Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
 - (b) Canadian Standards Association Standard CSA B1800, Section B182.2, Plastic Non-pressure Pipe Compendium, or
 - (ii) Any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.
 - f) Except with leave of the Commission, the Approval Holder must ensure that bridges and culverts meet the criteria set out in (i), (ii), or (iii) below:
 - (i) The bridge or culvert is designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in column 2 the table below for the period the Approval Holder anticipates the structure will remain on site, as set out in column 1 in the table below:

Column 1 Anticipated period crossing structure will remain on site	Column 2 Peak flow period
Bridge or culvert, 3 years or less	10 years
Bridge other than a bridge within a community watershed, more than 3 years but less than 15	50 years
Bridge within a community watershed, more than 3 years	100 years
Bridge, 15 years or more	100 years
Culvert, more than 3 years	100 years

- (ii) The bridge, or any component of the bridge:
 - (a) is designed to pass expected flows during the period the bridge is anticipated to remain on the site;
 - (b) is constructed, installed and used only in a period of low flow; and
 - (c) is removed before any period of high flow begins.
- (iii) The culvert:
 - (a) is a temporary installation, and the Approval Holder does not expect to subsequently install a replacement culvert at that location;

- (b) is not installed in a stream, when the stream contains fish;
 - (c) is sufficient to pass flows that occur during the period the culvert remains on the site;
 - (d) is installed during a period of low flow; and
 - (e) is removed before any period of high flow begins.
- g) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width;
 - h) Subject to condition 13 a), equipment used for activities under this approval must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity, or if under flowing conditions, is carried out in accordance with the advice of a qualified professional.
14. Following initial pipeline construction, stream, lake and wetlands crossings are approved for necessary pipeline maintenance activities except for:
- a) works within the boundary of a provincial park;
 - b) stream bank or stream bed revetment works in a stream classified as S1, S2, S3, S4 or S5;
 - c) pipe replacement within the stream channel where the original application specified a trenchless crossing method and the planned works involve a trenched crossing method;
 - d) permanent alteration of a stream bank;
 - e) works within a Temperature Sensitive Stream established by order under s. 27 of the Environmental Protection and Management Regulation; or
 - f) works within a Fisheries Sensitive Watershed established by order under s. 28 of the Environmental Protection and Management Regulation.
15. Before any in-stream maintenance works in or adjacent to a stream or wetland crossing occurs where any of the following are established in relation to the stream or wetland after construction of the pipeline is complete:
- a) Species identified as special concern, threatened, or endangered under the federal *Species at Risk Act*; or
 - b) Species identified by Order as a species at risk under the *Forest and Range Practices Act* or the *Oil and Gas Activities Act*.
- the Approval Holder must submit a plan developed by a qualified professional, to the satisfaction of the Commission, that specifies measures to avoid or mitigate potential impacts to those species.
- The Approval Holder must implement the plan when undertaking the maintenance works.
16. Construction and maintenance activities in and about wetlands including wetland crossings must be constructed, maintained and removed in accordance with the following:
- a) retain organic cover within and adjacent to the wetland;
 - b) minimize erosion or release of sediment within the wetland;
 - c) ensure the natural flow of water is reasonably maintained;
 - d) any padding materials must be placed on the wetland surface only and must not be used for infilling;
 - e) except with leave of the Commission, construction or maintenance works within a W1 wetland containing open water must either be isolated or utilize sediment curtains to minimize turbidity;
 - f) any padding materials must be removed as soon as practicable following construction, considering weather and ground conditions; and
 - g) the wetland, including banks and bed, must be restored, to the extent practicable, to the condition that existed before the crossing was initiated.

17. Open cut crossings and works within streams, lakes or wetlands must be planned and conducted in accordance with the following requirements:
- a) An open cut of a stream classified as S1, S2, S3 or S4 must not occur, unless the stream is frozen to its bed or is completely dry with no evidence of subsurface flow, unless otherwise approved by the National Energy Board and/or Fisheries and Oceans Canada;
 - b) Where the streambed or substrate consists of rocks, pebbles or coarse gravel overlaying finer material, this material must be removed and stockpiled separately outside the wetted perimeter of the stream for replacement during restoration;
 - c) Materials referred to in (b) above must be excavated and stockpiled in a manner that minimizes sediment dispersal within the stream, lake or wetland and must be replaced in a manner that minimizes disturbance to the stream, lake or wetland following pipeline installation;
 - d) Unless otherwise authorized by Fisheries and Oceans Canada, spawning gravels must not be disturbed when redds that contain eggs or alevins are present. The authorization must be provided to the Commission;
 - e) Channels, banks and beds of wetlands, including any disturbed stable natural material, must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated;
 - f) Excavated materials must be contained using appropriate techniques, so that that sediment-laden water and spoil do not re-enter the stream, lake or wetland;
 - g) Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to watercourses; and
 - h) Where feasible, aquatic vegetation and organic debris removed from the construction area must be salvaged and returned following trench backfilling, and channels, banks and beds of streams, including any disturbed stable natural material must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated.
18. Flow isolation crossings and works must be planned and conducted in accordance with (b) to (h) of the above condition regarding open cut crossings and the following additional requirements:
- c) Flow isolation works must be installed prior to any other in-stream construction work at the crossing;
 - d) After installation of the flow isolation works, construction of the crossing or works, including the location and operation of any equipment, must be isolated from water flowing in the stream;
 - e) Welding, coating, weighting and, where applicable testing, of the pipe must be completed prior to commencement of trenching within fish-bearing water bodies;
 - f) Water from flumes, pump-arounds, diversions, or other methods must be released to downstream areas in a manner that avoids erosion or sediment release;
 - g) Pump intakes must not disturb beds of fish bearing streams, lakes or wetlands except as necessary to ensure safe installation and operation of equipment, and must be screened with maximum mesh sizes and approach velocities in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline;
 - h) Water flows downstream of in-stream construction sites must be maintained at volume and discharge consistent with upstream flows; and
 - i) Ditch plugs must be maintained at or near the banks of the crossing and left in place until the crossing has been initiated.
19. Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to streams.

ADVISORY GUIDANCE

1. Sketch Plan - fig_123512347_pa_s11_spread_3_100112665_20210114.pdf is for the permit holder's internal reference only and was not reviewed as a decision tool for this permit, nor does it form an integral part of this permit.
2. The permit holder should be aware that there may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as areas of current use or cultural resources that overlap the activity area. All reasonable efforts should be made to minimize interference with those activities while carrying out the activities authorized herein.

All pages included in this permit and any attached documents form an integral part of this permit.



Justin Anderson
Authorizations Manager
Commission Delegated Decision Maker

APPROVALS

RE: Determination of Application Area Number 100111645

Approval Holder: Trans Mountain Pipeline ULC
Effective Date: January 12, 2021
Amendment Date of Issuance: January 12, 2021
Application Submitted Date: December 3, 2020
Application Determination Number: 100100221

CUTTING PERMIT

“Permit Area” means the areas described in condition 1 of Schedule A of the following Licence of Occupation

Tenure No.: 9000887
Document No.: 960996

APPROVAL

Pursuant to section 47.4 of the *Forest Act*, and subject to the conditions of these permits the Commission hereby approves the removal of Crown timber from the Permit Area under the cutting permits associated with the Master Licences to Cut as follows:

Master Licence to Cut No.: M02455
Cutting Permit No.: 3
Timber Mark No.: MTB949
Total New Cut: 79.822 ha
Forest District: (DPG) Prince George Natural Resource District
Region: Interior

Master Licence to Cut No.: M02363
Cutting Permit No.: 8
Timber Mark No.: MTB950
Total New Cut: 199.5 ha
Forest District: (DKA) Thompson Rivers Natural Resource District
Region: Interior

Conditions

1. Timber harvesting under the above cutting permits must not commence until the Permit Holder has submitted the relevant appraisal documents to the Ministry of Forests, Lands and Natural Resource Operations and Rural Development and received confirmation of the stumpage rate.
2. Stumpage for the cutting permits will be determined according to the Interior Appraisal Manual (Manual) as amended from time to time. In the current version of the Manual, stumpage will be determined in accordance with Table 6-3 (volume based).

3. Clearing must be confined to the areas approved in the spatial data referenced in condition 1 of Schedule A of the Licence of Occupation.
4. Despite condition 3, the Approval Holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the Permit Area that are considered to be a worker safety hazard under applicable regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the permit area without causing damage to standing timber may be harvested.
5. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark (identified above) in accordance with timber marking requirements of the *Forest Act*.
6. Any timber removed from the Permit Area must be scaled in accordance with scaling requirements of the *Forest Act*.
7. The interior merchantability specifications identified in the Provincial Logging Residue and Waste Measurement Procedures Manual in place at the time the timber is harvested apply to these cutting permits.
8. The holder of the cutting permits must pay to the Province any waste billing determined in accordance with the Master Licence to Cut and the terms of this approval.

Termination

9. The cutting permits terminate upon the submission of the post construction plan required under the Licence of Occupation identified in the definition of Permit Area above or upon either the cancellation or expiry of that Licence.

Advisory Guidance

1. The Approval Holder should be aware that the approval under the *Forest Act* to harvest timber does not extend to harvesting within private land.
2. The Approval Holder should be aware that impacts to recreation features, trails, recreation facilities, interpretative forest sites or recreation sites identified, authorized or established under the *Forest and Range Practices Act* are subject to additional authorizations by the Ministry of Forests, Lands and Natural Resource Operations.

All pages included in this permit and any attached plan(s) form an integral part of this permit.



Lori Phillips
Authorizations Manager

CHANGES IN AND ABOUT A STREAM

APPROVAL

The Commission, pursuant to section 11 of the *Water Sustainability Act*, approves the changes in and about a stream, as detailed in the application, for construction and maintenance activities within the activity areas, unless otherwise restricted or refused by this approval and to the conditions below.

Changes in and about a Stream No.: 0003860	As included in the application referenced herein.	Tenure No.: N/A Document No.: N/A
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Conditions

1. Except with leave of the Commission, in-stream works must be carried out in accordance with the methods and any mitigations specified in the application.
2. A notice of maintenance activities must be submitted to OGC.ExternalNotifications@bcogc.ca, or such other address as indicated in a notice from the Commission, at least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities.
3. At least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities, the Approval Holder must provide a notice of works to any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur.
4. Except with leave of the Commission or where the stream is dry or frozen at the time, water quality must be monitored by a qualified professional during construction or maintenance activities that involve:
 - a) construction or maintenance within a fish-bearing stream other than the installation or removal of flow isolation works;
 - b) operation of construction machinery within the riparian reserve zone of a S1, S2 or S3 stream or within 20 meters of an S4 stream.
5. Water monitoring under the above condition must:
 - a) monitor locations upstream and downstream of the location of any physical disturbance associated with the project either in-stream or in the riparian areas identified above;
 - b) identify, document and report to the Commission any exceedance of the *British Columbia Approved Water Quality Guideline: Aquatic Life, Wildlife & Agriculture* (March 2016 or as amended or replaced from time to time) (the "Water Quality Guidelines") likely caused by the construction or maintenance activities;
 - c) undertake and document measures to eliminate the cause of any exceedance identified under b) or, if the cause could not be eliminated, to minimize the duration and significance of any detrimental effects; and
 - d) make the information documented under b) and c) available to the Commission upon request.
6. Any substance, sediment, debris or material that could adversely impact the stream must not be allowed or permitted to enter or leach or seep into the stream from an activity, construction, worksite, storage site, machinery or from components used in the construction or maintenance of any works.
7. The Approval Holder must ensure all of the following for each crossing of a stream, wetland and lake:
 - a) the crossing is constructed and maintained at times and in a manner that is unlikely to harm fish or destroy, damage or harmfully alter fish habitat;

- b) the crossing does not prevent the movement of fish, nor impede the movement of fish to the extent that it is harmful to the survival of the fish;
 - c) the side of the stream, lake or wetland is protected at the crossing; and
 - d) any disturbance to the stream channel and stream bank, wetland or lake bottom, as applicable, is mitigated.
8. Subject to the provisions of this approval, stream crossings must be constructed in accordance with the primary or contingency methods as specified in the Watercourse Crossing Table (dbs_WC_Spread3_Amendment_100111645_20201102.xlsx, uploaded 2020-11-02 13:42:06) submitted with the application.
9. Where the primary crossing method is a trenchless crossing, leave of the Commission is required before implementing any type of contingency trenched crossing method, as specified in the Watercourse Crossing Table (dbs_WC_Spread3_Amendment_100111645_20201102.xlsx, uploaded 2020-11-02 13:42:06) submitted with the application.
10. In-stream activities within a fish bearing stream, lake or wetland must occur:
- a) during the applicable reduced risk work windows as specified in the regional timing windows for respective regions through which the pipeline passes and within which the works will occur;
 - b) in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the National Energy Board and provided to the Commission; or
 - c) in accordance with an authorization from Fisheries and Oceans Canada (DFO) that is provided to the Commission, or in accordance with DFO's Measures to Avoid Causing Harm to Fish and Fish Habitat.
11. Mechanical stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
- a) To facilitate construction of a crossing, a machine is permitted to ford the stream a maximum of one time in each direction at the crossing location;
 - b) Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings;
 - c) Notwithstanding, (b), matting or steel plates may be used to cross streams classified as NCD, S4 or S6;
 - d) The Approval Holder must ensure that permanent bridges are designed and fabricated in compliance with:
 - (i) the Canadian Standards Association Canadian Bridge Design Code, CAN/CSA-S6; and
 - (ii) soil property standards, as they apply to bridge piers and abutments; set out in the Canadian Foundation of Engineering Manual.
 - e) Except with leave of the Commission, the Approval Holder must ensure that:
 - (i) any culverts used are designed and fabricated in compliance with the applicable:
 - (a) Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
 - (b) Canadian Standards Association Standard CSA B1800, Section B182.2, Plastic Non-pressure Pipe Compendium, or
 - (ii) Any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.
 - f) Except with leave of the Commission, the Approval Holder must ensure that bridges and culverts meet the criteria set out in (i), (ii), or (iii) below:
 - (i) The bridge or culvert is designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in column 2 the table below for the period the Approval Holder anticipates the structure will remain on site, as set out in column 1 in the table below:

Column 1 Anticipated period crossing structure will remain on site	Column 2 Peak flow period
Bridge or culvert, 3 years or less	10 years
Bridge other than a bridge within a community watershed, more than 3 years but less than 15	50 years
Bridge within a community watershed, more than 3 years	100 years
Bridge, 15 years or more	100 years
Culvert, more than 3 years	100 years

- (ii) The bridge, or any component of the bridge:
 - (a) is designed to pass expected flows during the period the bridge is anticipated to remain on the site;
 - (b) is constructed, installed and used only in a period of low flow; and
 - (c) is removed before any period of high flow begins.

- (iii) The culvert:
 - (a) is a temporary installation, and the Approval Holder does not expect to subsequently install a replacement culvert at that location;
 - (b) is not installed in a stream, when the stream contains fish;
 - (c) is sufficient to pass flows that occur during the period the culvert remains on the site;
 - (d) is installed during a period of low flow; and
 - (e) is removed before any period of high flow begins.

- g) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width;
- h) Subject to condition 11 a), equipment used for activities under this approval must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity, or if under flowing conditions, is carried out in accordance with the advice of a qualified professional.

12. Following initial pipeline construction, stream, lake and wetlands crossings are approved for necessary pipeline maintenance activities except for:

- a) works within the boundary of a provincial park;
- b) stream bank or stream bed revetment works in a stream classified as S1, S2, S3, S4 or S5;
- c) pipe replacement within the stream channel where the original application specified a trenchless crossing method and the planned works involve a trenched crossing method;
- d) permanent alteration of a stream bank;
- e) works within a Temperature Sensitive Stream established by order under s. 27 of the Environmental Protection and Management Regulation; or
- f) works within a Fisheries Sensitive Watershed established by order under s. 28 of the Environmental Protection and Management Regulation.

13. (1) Before any in-stream maintenance works in or adjacent to a stream or wetland crossing occurs where any of the following are established in relation to the stream or wetland after construction of the pipeline is complete:

- a) Species identified as special concern, threatened, or endangered under the federal *Species at Risk Act*; or

- b) Species identified by Order as a species at risk under the *Forest and Range Practices Act* or the *Oil and Gas Activities Act*.
- the Approval Holder must submit a plan developed by a qualified professional, to the satisfaction of the Commission, that specifies measures to avoid or mitigate potential impacts to those species.
- (2) The Approval Holder must implement the plan when undertaking the maintenance works.
14. Construction and maintenance activities in and about wetlands including wetland crossings must be constructed, maintained and removed in accordance with the following:
- a) retain organic cover within and adjacent to the wetland;
 - b) minimize erosion or release of sediment within the wetland;
 - c) ensure the natural flow of water is reasonably maintained;
 - d) any padding materials must be placed on the wetland surface only and must not be used for infilling;
 - e) except with leave of the Commission, construction or maintenance works within a W1 wetland containing open water must either be isolated or utilize sediment curtains to minimize turbidity;
 - f) any padding materials must be removed as soon as practicable following construction, considering weather and ground conditions; and
 - g) the wetland, including banks and bed, must be restored, to the extent practicable, to the condition that existed before the crossing was initiated.
15. Open cut crossings and works within streams, lakes or wetlands must be planned and conducted in accordance with the following requirements:
- a) An open cut of a stream classified as S1, S2, S3 or S4 must not occur, unless the stream is frozen to its bed or is completely dry with no evidence of subsurface flow, unless otherwise approved by the National Energy Board and/or Fisheries and Oceans Canada;
 - b) Where the streambed or substrate consists of rocks, pebbles or coarse gravel overlaying finer material, this material must be removed and stockpiled separately outside the wetted perimeter of the stream for replacement during restoration;
 - c) Materials referred to in (b) above must be excavated and stockpiled in a manner that minimizes sediment dispersal within the stream, lake or wetland and must be replaced in a manner that minimizes disturbance to the stream, lake or wetland following pipeline installation;
 - d) Unless otherwise authorized by Fisheries and Oceans Canada, spawning gravels must not be disturbed when redds that contain eggs or alevins are present. The authorization must be provided to the Commission;
 - e) Channels, banks and beds of wetlands, including any disturbed stable natural material, must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated;
 - f) Excavated materials must be contained using appropriate techniques, so that that sediment-laden water and spoil do not re-enter the stream, lake or wetland;
 - g) Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to watercourses; and
 - h) Where feasible, aquatic vegetation and organic debris removed from the construction area must be salvaged and returned following trench backfilling, and channels, banks and beds of streams, including any disturbed stable natural material must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated.
16. Flow isolation crossings and works must be planned and conducted in accordance with (b) to (h) of the above condition regarding open cut crossings and the following additional requirements:
- a) Flow isolation works must be installed prior to any other in-stream construction work at the crossing;

- b) After installation of the flow isolation works, construction of the crossing or works, including the location and operation of any equipment, must be isolated from water flowing in the stream;
 - c) Welding, coating, weighting and, where applicable testing, of the pipe must be completed prior to commencement of trenching within fish-bearing water bodies;
 - d) Water from flumes, pump-arounds, diversions, or other methods must be released to downstream areas in a manner that avoids erosion or sediment release;
 - e) Pump intakes must not disturb beds of fish bearing streams, lakes or wetlands except as necessary to ensure safe installation and operation of equipment, and must be screened with maximum mesh sizes and approach velocities in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline;
 - f) Water flows downstream of in-stream construction sites must be maintained at volume and discharge consistent with upstream flows; and
 - g) Ditch plugs must be maintained at or near the banks of the crossing and left in place until the crossing has been initiated.
17. Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to streams.

Advisory Guidance

1. Construction Plans are for the Approval Holder's internal reference only and were not reviewed as decision tools for this approval, nor do they form an integral part of this approval.
2. The Approval Holder should be aware that there may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as cultural resources that overlap the activity area. All reasonable efforts should be made to minimize interference with those activities and resources while carrying out the maintenance.

All pages included in this approval and any attached plan(s) form an integral part of this approval.



Lori Phillips
Authorizations Manager

Licence No. 960996

File No. 9000887

THIS AGREEMENT is dated for reference January 12, 2021 and is made under the *Land Act*.

BETWEEN:

OIL and GAS COMMISSION, a corporation continued under the *Oil and Gas Activities Act*, S.B.C. 2008, c.36, an agent of Her Majesty the Queen in Right of the Province of British Columbia, having its offices at 6534 Airport Road, Fort St. John, British Columbia V1J 4M6 (the "Commission")

AND:

TRANS MOUNTAIN PIPELINE ULC (Inc. No. A0070893)
2700, 300 – 5th Avenue SW
Calgary, AB T2P 5J2

(the "Licensee")

The parties agree as follows:

ARTICLE 1 - INTERPRETATION

1.1 In this Agreement,

"**Agreement**" means this licence of occupation;

"**Certificates**" means Certificates OC-064, AO-004-OC-049, and AO-005-OC-02 issued by the Canada Energy Regulator (formerly National Energy Board) on December 1, 2016;

"**Commencement Date**" means January 12, 2021;

"**Disposition**" has the meaning given to it in the *Land Act* and includes a licence of occupation;

"**Fees**" means the fees set out in Article 3;

"**Financing Entities**" means the Persons, if any, or their agent or trustee, providing the Licensee with any or all of its development, construction, operating, term or project financing with respect to the Improvements or the Pipeline or any activity related thereto, whether at the time of execution of this Agreement or during the term of this Agreement;

"**Improvements**" includes anything made, constructed, erected, built, altered, repaired or added to, in, on or under the Land, and attached to it or intended to become a part of it, and also includes any clearing, excavating, digging, drilling, tunnelling, filling, grading or ditching of, in, on or under the Land;

"**Land**" means:

Crown Land, within the Omineca and Thompson-Okanagan Natural Resource Region (along construction corridor from b-20-B/83-E-3 to a-35-F/83-D-3) identified in the spatial data submitted to the Commission in permit amendment application 100111645, on December 3, 2020 containing a total of 11.586 hectares more or less, except for those parts of the land that, on the Commencement Date, consist of highways (as defined in the *Highway Act*) and land covered by water;

“Market Value of the Land” means the value of the Land as determined, from time to time, by us in our sole discretion;

“Person” means any individual, partnership, limited partnership, firm, trust, body corporate, agency, administrative board, unincorporated body of persons, association or government authority;

“Pipeline” has the same meaning as prescribed in the *Canadian Energy Regulator Act* (formerly *National Energy Board Act*) (Canada) and shall include the Pipeline approved by the Certificates;

“Province” means Her Majesty the Queen in Right of the Province of British Columbia;

“Realty Taxes” means all taxes, rates, levies, duties, charges and assessments levied or charged, at any time, by any competent governmental authority which relate to the Land, the Improvements or both of them and which you are liable to pay;

“Security” means the security referred to in section 6.1 or 6.2, as replaced or supplemented in accordance with section 6.5;

“Term” means the period of time set out in section 2.2;

“we”, “us” or “our” refers to the Commission alone and never refers to the combination of the Commission and the Licensee: that combination is referred to as **“the parties”**;

“you” or “your” refers to the Licensee; and

“workspaces” means areas constructed, maintained or used to facilitate the construction or operation of the Pipeline as more specifically identified as Activity Details in Schedule “A.”

- 1.2 In this Agreement, “person” includes a corporation, firm or association and wherever the singular or masculine form is used in this Agreement it will be construed as the plural or feminine or neuter form, as the case may be, and vice versa where the context or parties require.
- 1.3 The captions and headings contained in this Agreement are for convenience only and do not define or in any way limit the scope or intent of this Agreement.
- 1.4 This Agreement will be interpreted according to the laws of the Province of British Columbia.
- 1.5 Where there is a reference to an enactment of the Province of British Columbia or of Canada in this Agreement, that reference will include a reference to every amendment to it, every regulation made under it and any subsequent enactment of like effect and, unless otherwise indicated, all enactments referred to in this Agreement are enactments of the Province of British Columbia.
- 1.6 If any section of this Agreement, or any part of a section, is found to be illegal or unenforceable, that section or part of a section, as the case may be, will be considered separate and severable and the remainder of this Agreement will not be affected and this Agreement will be enforceable to the fullest extent permitted by law.
- 1.7 Each schedule to this Agreement is an integral part of this Agreement as if set out at length in the body of this Agreement.
- 1.8 This Agreement constitutes the entire agreement between the parties and no understanding or agreement, oral or otherwise, exists between the parties with respect to the subject matter of this Agreement except as expressly set out in this Agreement and this Agreement may not be modified except by subsequent agreement in writing between the parties.

- 1.9 Each party will, upon the request of the other, do or cause to be done all lawful acts necessary for the performance of the provisions of this Agreement.
- 1.10 All provisions of this Agreement in our favour and all of our rights and remedies, either at law or in equity, will survive the termination of this Agreement.
- 1.11 Time is of the essence of this Agreement.
- 1.12 Wherever this Agreement provides that an action may be taken, a consent or approval must be obtained or a determination must be made, then you or we, as the case may be, will act reasonably in taking such action, deciding whether to provide such consent or approval or making such determination; but where this Agreement states that you or we have sole discretion to take an action, provide a consent or approval or make a determination, there will be no requirement to show reasonableness or to act reasonably in taking that action, providing that consent or approval or making that determination.

ARTICLE 2 - GRANT AND TERM

- 2.1 On the terms and conditions set out in this Agreement, including the conditions specified in Schedule A, we grant you a licence of occupation of the Land for **Deck Site and Workspace** purposes, and you acknowledge this licence of occupation does not grant you exclusive use and occupancy of the Land.
- 2.2 The term of this Agreement commences on the Commencement Date and terminates on the 5th anniversary of that date, or such earlier date provided for in this Agreement.

ARTICLE 3 - FEES

- 3.1 You will pay to us:
- (a) for the first year of the Term, Fees of **\$500.00** payable within 90 days of the Offered date; and
 - (b) for each year during the remainder of the Term, the Fees either determined by us under section 3.2 or established under section 3.3, payable in advance on each anniversary of the Commencement Date.
- 3.2 We will, not later than 15 days before each anniversary of the Commencement date during the Term, give written notice to you specifying the Market Value of the Land and the resulting amount payable by you under section 3.1.
- 3.3 If we do not give notice to you under section 3.2, the Fees payable by you under section 3.1(a) for the year for which notice was not given will be the same as the Fees payable by you for the preceding year of the Term.
- 3.4 You acknowledge that we may, on written notice to you and in our sole discretion, change the Fees payable by you under this Agreement.

ARTICLE 4 - COVENANTS

- 4.1 You must
- (a) pay, when due,
 - (i) the Fees to us at the address set out in Article 10,
 - (ii) the Realty Taxes, and
 - (iii) all charges for electricity, gas, water and other utilities supplied to the Land for use by you or on your behalf or with your permission;
 - (b) deliver to us, immediately upon demand, receipts or other evidence of the payment of Realty Taxes and all other money required to be paid by you under this Agreement;
 - (c) observe, abide by and comply with
 - (i) all applicable laws, bylaws, orders, directions, ordinances, of any competent governmental authority, having jurisdiction over the Pipeline, Roads, Workspaces, Improvements and associated activities, or your use or occupation of the Land, Road or the Improvements; and
 - (ii) the provisions of this Agreement;
 - (d) in respect of the use of the Land by you or by anyone you permit to use the Land, keep the Land and the Improvements in a safe, clean and sanitary condition satisfactory to us, and at our written request, make the Land and the Improvements safe, clean and sanitary;
 - (e) not commit any wilful or voluntary waste, spoil or destruction on the Land or do anything on the Land that may be or become a nuisance or annoyance to an owner or occupier of land in the vicinity of the Land;
 - (f) use and occupy the Land only in accordance with and for the purposes set out in section 2.1;
 - (g) not construct, place or affix any Improvement on or to the Land except as necessary for the purposes set out in section 2.1;
 - (h) pay all accounts and expenses as they become due for work performed on or materials supplied to the Land at your request, on your behalf or with your permission, except for money that you are required to hold back under the *Builders Lien Act*;
 - (i) if any claim of lien over the Land is made under the *Builders Lien Act* for work performed on or materials supplied to the Land at your request, on your behalf or with your permission, immediately take all steps necessary to have the lien discharged, unless the claim of lien is being contested in good faith by you and you have taken the steps necessary to ensure that the claim of lien will not subject the Land or any interest of yours under this Agreement to sale or forfeiture;
 - (j) not cut or remove timber on or from the Land without
 - (i) our prior written consent, and
 - (ii) being granted the right under the *Forest Act* to harvest Crown timber on the Land;
 - (k) dispose of raw sewage and refuse only in accordance with the requirements and regulations of appropriate federal and provincial agencies;
 - (l) store bulk hazardous petroleum products and other toxic substances in accordance with the provisions of the *Environmental Management Act*;
 - (m) permit us, or our authorized representatives, to enter on the Land at any time to inspect the Land and the Improvements;
 - (n) indemnify and save us, the Province and our and the Province's servants, employees and agents harmless against all claims, actions, causes of action, losses, damages, costs and liabilities, including fees of solicitors and other professional advisors, arising out of
 - (i) your breach, violation or nonperformance of a provision of this Agreement, and
 - (ii) any personal injury, bodily injury (including death) or property damage occurring or happening on or off the Land by virtue of your entry upon, use or occupation of the

- Land,
and the amount of all such losses, damages, costs and liabilities will be payable to us or the Province immediately upon demand; and
- (o) on the termination of this Agreement,
- (i) peaceably quit and deliver to us possession of the Land and, subject to paragraphs (ii), (iii) and (iv), the Improvements in a safe, clean and sanitary condition,
 - (ii) within 90 days, remove from the Land any Improvement you want to remove, if the Improvement was placed on or made to the Land by you and you are not in default of this Agreement,
 - (iii) not remove any Improvement from the Land if you are in default of this Agreement, unless we direct or permit you to do so under paragraph (iv),
 - (iv) remove from the Land any Improvement that we, in writing, direct or permit you to remove, other than any Improvement permitted to be placed on or made to the Land under another disposition, and
 - (v) restore the surface of the Land as nearly as may reasonably be possible to the same condition as it was on the Commencement Date, to our satisfaction, but if you are not directed or permitted to remove an Improvement under paragraph (iv), this paragraph will not apply to that part of the surface of the Land on which that Improvement is located, and all of your right, interest and estate in the Land will be absolutely forfeited to us, and to the extent necessary, this covenant will survive the termination of this Agreement.

4.2 You will not permit any person to do anything you are restricted from doing under this Article.

ARTICLE 5 - LIMITATIONS

- 5.1 You agree with us that
- (a) we and the Province are under no obligation to provide access or services to the Land or to maintain or improve existing access roads;
 - (b) this Agreement is subject to
 - (i) all subsisting grants to or rights of any person made or acquired under the *Coal Act, Forest Act, Mineral Tenure Act, Petroleum and Natural Gas Act, Range Act, Wildlife Act or Water Sustainability Act*, or any extension or renewal of the same, whether or not you have actual notice of them, and
 - (ii) the exceptions and reservations of interests, rights, privileges and titles referred to in section 50 of the *Land Act*;
 - (c) without limiting subsection 4.1(n), you must indemnify and save us, the Province and our and the Province's servants, employees and agents harmless from against all claims, actions, causes of action, losses, damages, costs and liabilities, including fees of solicitors and other professional advisors, arising out of any conflict between your rights under this Agreement and the rights of any person under a disposition or under a subsisting grant to or right of any person made or acquired under the *Coal Act, Forest Act, Mineral Tenure Act, Petroleum and Natural Gas Act, Range Act, Wildlife Act or Water Sustainability Act* (or any extension or enactment of the Province of British Columbia of like effect), or any extension or renewal of the same, whether or not you have actual notice of them, and the amount of all such losses, damages, costs and liabilities will be payable to us immediately upon demand;
 - (d) you release us and the Province from all claims, actions, causes of action, suits, debts and

- demands that you now have or may at any time in the future have against us or the Province arising out of any conflict between your rights under this Agreement and the rights of any person under a disposition or under a subsisting grant to or right made or acquired under the enactments referred to in subsection (c), and you acknowledge that this Agreement and your rights under this Agreement are subject to those grants and rights referred to in subsection(c) whether or not you have actual notice of them
- (e) we may make other dispositions of or over the Land;
 - (f) you will make no claim against us or the Province for compensation, in damages or otherwise, in respect of a disposition made under subsection (e), where such disposition does not materially affect the exercise of your rights under this Agreement;
 - (g) subject to subsection (f), all of your costs and expenses, direct or indirect, that arise out of any lawful interference with your rights under this Agreement as a result of the exercise or operation of the interests, rights, privileges and titles reserved to us and the Province in subsections (b) and (e) will be borne solely by you;
 - (h) you will not commence or maintain proceedings under section 65 of the *Land Act* in respect of any lawful interference with your rights under this Agreement that arises as a result of the exercise or operation of the interests, rights, privileges and titles described in subsections (b) and (e);
 - (i) you will not remove or permit the removal of any Improvement from the Land except as expressly permitted or required under this Agreement;
 - (j) any interest you may have in the Improvements ceases to exist and becomes our property upon the termination of this Agreement, except where an Improvement may be removed under paragraph 4.1(o)(ii), (iii) or (iv) in which case any interest you may have in that Improvement ceases to exist and becomes our property if the Improvement is not removed from the Land within the time period set out in paragraph 4.1(o)(ii) or the time period provided for in the direction or permission given under paragraph 4.1(o)(iii); and
 - (k) if, after the termination of this Agreement, we permit you to remain in possession of the Land and we accept money from you in respect of such possession, a tenancy from year to year will not be created by implication of law and you will be deemed to be a monthly occupier only subject to all of the provisions of this Agreement, except as to duration, in the absence of a written agreement to the contrary.

ARTICLE 6 - SECURITY AND INSURANCE

- 6.1 On the Commencement Date, you will deliver to us security in the amount of \$0.00 which will
 - (a) guarantee the performance of your obligations under this Agreement;
 - (b) be in the form required by us; and
 - (c) remain in effect until we certify, in writing, that you have fully performed your obligations under this Agreement.

- 6.2 Despite section 6.1, your obligations under that section are suspended for so long as you maintain in good standing other security acceptable to us to guarantee the performance of your obligations under this Agreement and all other dispositions held by you.

- 6.3 We may use the Security for the payment of any costs and expenses incurred by us and the Province to perform any of your obligations under this Agreement that are not performed by you or to pay any overdue Fees and, if such event occurs, you will, within 30 days of that event, deliver further Security to us in an amount equal to the amount drawn down by us.

- 6.4 After we certify, in writing, that you have fully performed your obligations under this Agreement, we will return to you the Security maintained under section 6.1, less all amounts drawn down by us under section 6.3.
- 6.5 You acknowledge that we may, from time to time, notify you to
- (a) change the form or amount of the Security; and
 - (b) provide and maintain another form of Security in replacement of or in addition to the Security posted by you under this Agreement;
- and you will, within 60 days of receiving such notice, deliver to us written confirmation that the change has been made or the replacement or additional form of Security has been provided by you.
- 6.6 You must
- a) without limiting your obligations or liabilities under this Agreement, at your expense, effect and keep in force during the Term Comprehensive/Commercial General Liability insurance protecting us and the Province as additional insured in an amount of not less than \$1,000,000.00 inclusive per occurrence insuring against liability for personal injury, bodily injury and property damage, and claims for liability assumed under contract, arising from all accidents or occurrences on the Land or the Improvements;
 - (b) on the Commencement Date and immediately upon demand, deliver to us a completed "Province of British Columbia Certificate of Insurance" for all insurance required to be maintained by you under this Agreement;
 - (c) ensure that all insurance required to be maintained by you under this Agreement is
 - (i) placed with insurers licensed in British Columbia,
 - (ii) primary and does not require the sharing of any loss by any insurer that insures us, and
 - (iii) endorsed to provide us with 30 days' advance written notice of cancellation or material change; and
 - (d) deliver to us, immediately upon demand, certified copies of all policies of insurance required to be maintained by you under this Agreement.
- 6.7 You acknowledge that we may, from time to time, notify you to
- (a) change the amount of insurance set out in subsection 6.6(a); and
 - (b) provide and maintain another type or types of insurance in replacement of or in addition to the insurance previously required to be maintained by you under this Agreement;
- and you will, within 60 days of receiving such notice, cause the amounts and types to be changed and deliver to us a completed "Province of British Columbia Certificate of Insurance" for all insurance then required to be maintained by you under this Agreement.
- 6.8 You shall provide, maintain, and pay for any additional insurance which you are required by law to carry, or which you consider necessary to insure risks not otherwise covered by the insurance specified in this Agreement in your sole discretion.
- 6.9 You waive all rights of recourse against us with regard to damage to your own property.

ARTICLE 7 - ASSIGNMENT

- 7.1 You must not sublicense, assign, mortgage or transfer this Agreement, or permit any person to use or occupy the Land, without our prior written consent, which may not be unreasonably withheld with respect to an assignment to a party authorized to construct and operate the Pipeline by the Canada Energy Regulator (formerly National Energy Board) or any successor thereto.
- 7.2 For the purpose of section 7.1, if you are a corporation, a change in control (as that term is defined in subsection 2(3) of the *Business Corporations Act*) will be deemed to be a transfer of this Agreement.
- 7.3 Section 7.2 does not apply to a corporation if the shares of the corporation which carry votes for the election of the directors of the corporation trade on a stock exchange located in Canada.

ARTICLE 8 – TERMINATION

- 8.1 You agree with us that:
- (a) if you:
- (i) default in the payment of any money payable by you under this Agreement; or
 - (ii) fail to observe, abide by and comply with the provisions of this Agreement (other than the payment of any money payable by you under this Agreement),
- and your default or failure continues for 60 days after we give written notice of the default or failure to you;
- (b) if a Certificate authorizing you to construct and operate the Pipeline has expired, or been terminated or cancelled and you are not pursuing reinstatement, an appeal or other available cure options, or a Certificate has not been reinstated, reissued or otherwise replaced to allow for the construction and operation of the Pipeline; or
- (c) if:
- (i) any case, proceeding or other action shall be instituted in any court of competent jurisdiction against you, seeking in respect of you an adjudication in bankruptcy, reorganization of your indebtedness, dissolution, winding up, liquidation, a composition, proposal or arrangement with creditors, a readjustment of debts, the appointment of a trustee, receiver, receiver and manager, interim receiver, custodian, liquidator sequestrator or other person with similar powers with respect to you or of all or any substantial part of your property, or any other like relief in respect of you under the *Bankruptcy and Insolvency Act (Canada)*, the *Companies' Creditors Arrangement Act (Canada)*, or any other bankruptcy, insolvency or analogous law and:
 - (A) such case, proceeding or other action results in an entry of an order for relief or any such adjudication or appointment; or
 - (B) the same shall continue undismitted, or unstayed and in effect, for any period

of 60 days; or

- (ii) you make any assignment in bankruptcy or you make any other assignment for the benefit of creditors, you make any proposal under the *Bankruptcy and Insolvency Act* (Canada) or any comparable law, you seek relief under the *Companies' Creditors Arrangement Act* (Canada), or any other bankruptcy, insolvency or analogous law, or you file a petition or proposal to take advantage of any act of insolvency; or
- (d) if this Agreement is taken in execution or attachment by any person and such execution or attachment is not released, bonded, satisfied, discharged, vacated or stayed within 60 days after the entry, commencement or levy.
- (e) if
 - (i) we or the Province require the Land for our or the Province's own use or, in our opinion, it is in the public interest to cancel this Agreement;
 - (ii) we have given you 6 months' written notice of such requirements or opinion; and
 - (iii) we are satisfied that alternate access to the Pipeline can be reasonably obtained;

this Agreement may be, at our option and with or without entry, terminated and your right to use and occupy the Land will cease, except that such termination must not become effective on any date between the Commencement Date and the date that construction of the Pipeline is completed.

8.2 We agree that any termination under this Article 8 does not prevent you from seeking lawful authority to use the Land pursuant to another statutory authority.

8.3 If the condition complained of (other than the payment of any money payable by you under this Agreement) reasonably requires more time to cure than 60 days, you will be deemed to have complied with the remedying of it if you commence remedying or curing the condition within 60 days and diligently complete the same.

8.4 You agree with us that:

- (a) you will make no claim for compensation, in damages or otherwise, upon the lawful termination of this Agreement under section 8.1; and
- (b) our remedies under this Article are in addition to those available to us under the *Land Act*.

ARTICLE 9 - DISPUTE RESOLUTION

9.1 If any dispute arises under this Agreement, the parties will attempt to resolve the dispute within 60 days of the dispute arising (or within such other time period agreed to by the parties) and, subject to applicable laws, provide candid and timely disclosure to each other of all relevant facts,

information and documents to facilitate those efforts.

- 9.2 Subject to section 9.5, if a dispute under this Agreement cannot be resolved under section 9.1, we or you may refer the dispute to arbitration conducted by a sole arbitrator appointed pursuant to the *Arbitration Act*.
- 9.3 The cost of the arbitration referred to in section 9.2 will be shared equally by the parties and the arbitration will be governed by the laws of the Province of British Columbia.
- 9.4 The arbitration will be conducted at our offices (or the offices of our authorized representative) in Fort St. John, British Columbia, and if we or our authorized representative have no office in Fort St. John, British Columbia, then our offices (or the offices of our authorized representative) that are closest to Fort St. John, British Columbia.
- 9.5 A dispute under this Agreement in respect of a matter within our sole discretion cannot, unless we agree, be referred to arbitration as set out in section 9.2.

ARTICLE 10 - NOTICE

- 10.1 Any notice required to be given by either party to the other will be deemed to be given if mailed by prepaid registered mail in Canada or delivered to the address of the other as follows:

to us

OIL and GAS COMMISSION

Bag 2
Fort St. John, BC V1J 2B0;

to you

TRANS MOUNTAIN PIPELINE ULC

2700, 300 – 5th Avenue SW
Calgary, AB T2P 5J2;

or at such other address as a party may, from time to time, direct in writing, and any such notice will be deemed to have been received if delivered, on the day of delivery, and if mailed, 7 days after the time of mailing, except in the case of mail interruption in which case actual receipt is required.

- 10.2 In order to expedite the delivery of any notice required to be given by either party to the other, a concurrent facsimile copy of any notice will, where possible, be provided to the other party but nothing in this section, and specifically the lack of delivery of a facsimile copy of any notice, will affect the deemed delivery provided in section 10.1.
- 10.3 The delivery of all money payable to us under this Agreement will be effected by hand, courier or prepaid regular mail to the address specified above, or by any other payment procedure agreed to by the parties, such deliveries to be effective on actual receipt.

ARTICLE 11 - MISCELLANEOUS

- 11.1 No provision of this Agreement will be considered to have been waived unless the waiver is in writing, and a waiver of a breach of a provision of this Agreement will not be construed as or constitute a waiver of any further or other breach of the same or any other provision of this Agreement, and a consent or approval to any act requiring consent or approval will not waive or render unnecessary the requirement to obtain consent or approval to any subsequent same or similar act.
- 11.2 No remedy conferred upon or reserved to us under this Agreement is exclusive of any other remedy in this Agreement or provided by law, but that remedy will be in addition to all other remedies in this Agreement or then existing at law, in equity or by statute.
- 11.3 The grant of a sublicense, assignment or transfer of this Agreement does not release you from your obligation to observe and perform all the provisions of this Agreement on your part to be observed and performed unless we specifically release you from such obligation in our consent to the sublicense, assignment or transfer of this Agreement.
- 11.4 This Agreement extends to, is binding upon and enures to the benefit of the parties, their heirs, executors, administrators, successors and permitted assigns.
- 11.5 If, due to a strike, lockout, labour dispute, act of God, inability to obtain labour or materials, law, ordinance, rule, regulation or order of a competent governmental authority, enemy or hostile action, civil commotion, fire or other casualty or any condition or cause beyond your reasonable control, other than normal weather conditions, you are delayed in performing any of your obligations under this Agreement, the time for the performance of that obligation will be extended by a period of time equal to the period of time of the delay so long as
- (a) you give notice to us within 30 days of the commencement of the delay setting forth the nature of the delay and an estimated time frame for the performance of your obligation; and
 - (b) you diligently attempt to remove the delay.
- 11.6 You agree with us that
- (a) we are under no obligation, express or implied, to provide financial assistance or to contribute toward the cost of servicing, creating or developing the Land or the Improvements and you are solely responsible for all costs and expenses associated with your use of the Land and the Improvements for the purposes set out in this Agreement; and
 - (b) nothing in this Agreement constitutes you as our agent, joint venturer or partner or gives you any authority or power to bind us or the Province in any way.
- 11.7 This Agreement does not override or affect any powers, privileges or immunities to which you are entitled under any enactment of the Province of British Columbia.

The parties have executed this Agreement as of the date of reference of this Agreement.

SIGNED on behalf of the **OIL and GAS COMMISSION**
by a duly authorized signatory



Authorized Signatory – Lori Phillips,
Authorizations Manager, Applications

SIGNED on behalf of **TRANS MOUNTAIN PIPELINE ULC**
by a duly authorized signatory

Authorized Signatory

SCHEDULE A – ADDITIONAL CONDITIONS

Approval Holder: Trans Mountain Pipeline ULC
Application Submitted Date: December 3, 2020
Application Area Number: 100111645
Application Determination Number: 100100221
Approved Amendment Disturbance Footprint: 11.586 ha

Activity Area

1. The approvals granted under this Agreement to occupy and use the Land are limited to the areas identified in the spatial data submitted to the Commission in the permit application as identified in the following table:

CER Ancillary Activity No.: 00208518-00208521	Type: Deck Site	Tenure No.: 9000887 Document No.: 960996
CER Ancillary Activity No.: 00208496-00208511, 00208513-00208517, 00208525-00208528	Type: Workspace	

2. The approvals to occupy and use the Land identified in the above table activities must not exceed the total approved disturbance footprint as referenced above.

Notification

1. A notice of construction start must be submitted, as per the relevant Commission process at the time of submission, at least 48 hours prior to the commencement of activities under this Agreement.
2. The approval holder must notify any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur at least five (5) working days prior to project commencement.
3. On or before April 30 of each year until construction is completed, you must submit to the Commission an interim post-construction plan as a PDF plan accurately identifying the location any roads constructed under this approval during the preceding year (April 1 to March 31).
4. Within 60 days of the completion of construction activities under this approval, you must submit to the Commission a final post-construction plan as a shapefile and PDF plan accurately identifying the location of the total area actually disturbed under this approval.

Environmental

5. Construction activities must not result in rutting, compaction or erosion of soils that cannot be reasonably rehabilitated to similar levels of soil productivity that existed on the operating area prior to the construction activities taking place.
6. Any temporary access must be constructed and maintained in a manner that provides for proper surface drainage, prevents pooling on the surface, and maintains slope integrity.
7. You must make reasonable efforts to prevent establishment of invasive plants and organisms resulting from the carrying out of activities authorized under the Agreement.
8. To protect karst features you must:

Licence of Occupation

Licence No. 960996

File No. 9000887

- a) prior to construction, ensure a qualified professional completes an assessment identifying any mapped karst features within 150 m of approved activities,
 - b) submit a report, satisfactory to us, identifying the results of the assessment, including any potential impacts to a karst feature and any planned mitigation of those impacts, and
 - c) implement the mitigations, if any, specified in the report under b).
9. Except with leave of the Commission, the temporary or permanent storage of acid rock within the operating area is not authorized under this approval.
10. Immediately prior to conducting any clearing or significant maintenance activities between November 1 and April 15, the approval holder must have a Qualified Environmental Professional survey for any bear dens located within 250 metres of that activity.
11. Except with leave of the Commission, the approval holder must not undertake construction or significant maintenance activities within 250 metres of any active bear den between November 1 and April 15 that was identified by the survey conducted in accordance with the condition above.
12. You must take reasonable measures to ensure that the quality, quantity or timing of flow of the water to any waterworks located within or adjacent to the pipeline right of way and workspace is not materially adversely affected. If it is not practicable to avoid such an effect, you must:
 - a) take all reasonable measures to minimize the adverse effect;
 - b) provide notice to the owner or user of the waterworks before or as soon as practicable following any adverse effect; and
 - c) for the period of adverse effect, provide the owner or user of the waterworks with an alternate supply of water of equal or better quality.
13. Approved activities must not cause a material adverse effect on the quality, quantity or natural timing of flow of water in an aquifer.
14. Recreation sites, recreation trails, or recreation facilities established or authorized under the Forest and Range Practices Act that are adversely affected by construction activities must be restored, to the extent practicable, to their pre-construction condition.
15. Dust control measures must be undertaken to ensure that dust resulting from construction or maintenance activities do not affect safe travel on a road or significantly impair the use and enjoyment of lawfully occupied permanent dwellings, significant public use areas or other similar areas.
16. You must undertake reasonable measures to mitigate noise during construction activities and use of the road that has the potential to affect public safety or significantly impair the use and enjoyment of lawfully occupied permanent dwellings, significant public use areas during periods of use or other similar areas.
17. Except as shown on the construction plans or with leave of the Commission, clearing for additional work space is not permitted within old growth management areas.
18. Following completion of construction activities, you must, as soon as practicable:
 - a) decompact any soils compacted by the activity;
 - b) if natural surface drainage pattern was altered by the carrying out of the activity restore the affected area, to the extent practicable, to the drainage pattern and its condition before the alteration; and
 - c) re-vegetate any soil exposed by the activities including, where necessary, using seed or vegetative propagules of an ecologically suitable species that:

Licence of Occupation

Licence No. 960996

File No. 9000887

- (i) promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun; and
 - (ii) stabilize the soil if it is highly susceptible to erosion.
19. Following completion of construction activities, any retrievable surface soils disturbed by the activity must be redistributed on the land so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.
 20. The Approval Holder must ensure that any Crown land within the activity area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
 21. The Approval Holder must ensure that any Crown land within the activity area is maintained free of garbage, debris and unused equipment.
 22. At the completion of construction activities the approval holder must restore any identifiable trails traditionally used by First Nations that were impacted by construction, to the level of access that existed prior to construction, if the location of the trail is made known to the approval holder by a First Nation or the Commission prior to the approval holder's notice of construction start.

Archaeology

23. Where an archaeological assessment was required, an AIA report must be submitted to the Commission as soon as practicable.
24. If artifacts, features, materials or things protected under Section 12.1 of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under Section 12.4 of the Heritage Conservation Act (site alteration permit) in respect of that artifact, feature, material or thing, immediately cease all work in the vicinity of the artifacts, features, materials or things.

ADVISORY GUIDANCE

1. Construction Plans are for your internal reference only and were not reviewed as a decision tool for this Agreement, nor do they form an integral part of the Agreement.
2. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.
3. You should be aware that the approval under s.39 of the Land Act does not extend to Indian Reserves; parks, protected areas or recreation areas designated under the BC Parks Act; municipal Crown land; or private land.
4. You should be aware that there may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as areas of current use or cultural resources that overlap the activity area. All reasonable efforts should be made to minimize interference with those activities while carrying out the activities authorized herein.
5. Instructions for submitting notice of construction start, as required by regulation, can be found in the Oil and Gas Activity Operations Manual on the Commission's website.
6. The approval holder should refer to the Best Practices for Managing Invasive Plants on Oil and Gas Operations guide as a tool for planning for and conducting works:
https://bcinvasives.ca/documents/OGGuide_2013_FINAL.v2.pdf

APPROVALS

RE: Determination of Application Area Number 100100221

Approval Holder: Trans Mountain Pipeline ULC
Date of Issuance: December 3, 2020
Effective Date: December 3, 2020
Amendment Date: August 8, 2018
Application Submitted Date: April 12, 2017
Application Determination Number: 100100221

CUTTING PERMIT

“Permit Area” means the areas described in condition 1 of Schedule A of the following Licence of Occupation

Tenure No.: 9000174

Document No.: 954891

but does not include any areas described above that are located within:

1. A Community Forest Agreement, First Nations Woodland Licence, Tree Farm Licence, Timber Licence or Woodlot Licence unless there is an agreement with the Agreement or Licence holder to harvest the timber located within the Agreement or Licence area under the relevant Master Licence to Cut and associated cutting permit indicated below, or
2. A subsisting cutting permit issued to another party.

APPROVAL

Pursuant to section 47.4 of the *Forest Act*, and subject to the conditions of these permits the Commission hereby approves the removal of Crown timber from the Permit Area under the cutting permits associated with the Master Licences to Cut as follows:

Master Licence to Cut No.: M02455

Cutting Permit No.: 3

Timber Mark No.: MTB949

Total New Cut: 77.96 ha

Forest District: (DPG) Prince George Natural Resource District

Region: Interior

Master Licence to Cut No.: M02363

Cutting Permit No.: 8

Timber Mark No.: MTB950

Total New Cut: 190.74 ha

Forest District: (DKA) Thompson Rivers Natural Resource District

Region: Interior

Conditions

1. Timber harvesting under the above cutting permits must not commence until the Permit Holder has submitted the relevant appraisal documents to the Ministry of Forests, Lands and Natural Resource Operations and Rural Development and received confirmation of the stumpage rate.
2. Stumpage for the cutting permits will be determined according to the Interior Appraisal Manual (Manual) as amended from time to time. In the current version of the Manual, stumpage will be determined in accordance with Table 6-3 (volume based).
3. Clearing must be confined to the areas approved in the spatial data referenced in condition 1 of Schedule A of the Licence of Occupation, and must not, without leave of the Commission, occur within:
 - a) an area containing a significant mineral lick, bear den, Trumpeter Swan nest, other nesting site, significant willow, or Sharp-tailed Grouse Lek, unless it is not damaged by activities approved under this permit;
 - b) Old Growth Management Areas, other than those identified in conflict in the Old Growth Management Areas Mitigation and Replacement Plan for the Trans Mountain Pipeline ULC Trans Mountain Expansion Project NEB Condition 76, dated September 2016, unless the incursion is less than 0.1 ha;
 - c) Wildlife Tree Retention Areas, except A15429, A58853, A18688, A88222, A56291, A15430, and T0713; or
 - d) a Riparian Management Area, except as approved in the spatial data referenced above, unless the Riparian Management Area has been previously cleared.
4. Despite condition 3, the Approval Holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the Permit Area that are considered to be a worker safety hazard under applicable regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the permit area without causing damage to standing timber may be harvested.
5. Prior to any clearing within Permanent Sample Plot 42-36-1G, any trees to be harvested must be measured, to the satisfaction of the Commission, and the results of those measurements must be submitted to the Commission and the Ministry of Forests, Lands and Natural Resource Operations and Rural Development.
6. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark (identified above) in accordance with timber marking requirements of the *Forest Act*.
7. Any timber removed from the Permit Area must be scaled in accordance with scaling requirements of the *Forest Act*.
8. The interior merchantability specifications identified in the Provincial Logging Residue and Waste Measurement Procedures Manual in place at the time the timber is harvested apply to these cutting permits.
9. The holder of the cutting permits must pay to the Province any waste billing determined in accordance with the Master Licence to Cut and the terms of this approval.

Termination

10. The cutting permits terminate upon the submission of the post construction plan required under the Licence of Occupation identified in the definition of Permit Area above or upon either the cancellation or expiry of that Licence.

Advisory Guidance

1. The Approval Holder should be aware that the approval under the *Forest Act* to harvest timber does not extend to harvesting within private land.
2. The Approval Holder should be aware that impacts to recreation features, trails, recreation facilities, interpretative forest sites or recreation sites identified, authorized or established under the *Forest and Range Practices Act* are subject to additional authorizations by the Ministry of Forests, Lands and Natural Resource Operations.

All pages included in this permit and any attached plan(s) form an integral part of this permit.



James O'Hanley
Vice President, Applications

CHANGES IN AND ABOUT A STREAM

APPROVAL

The Commission, pursuant to section 11 of the *Water Sustainability Act*, approves the changes in and about a stream, as detailed in the application, for construction and maintenance activities within the activity areas, unless otherwise restricted or refused by this approval and to the conditions below.

Changes in and about a Stream No.: 0003860	As included in the application referenced herein, unless referenced in the Refused Activities table, below.	Tenure No.: N/A Document No.: N/A
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Conditions

1. Except with leave of the Commission, in-stream works must be carried out in accordance with the methods and any mitigations specified in the application.
2. A notice of maintenance activities must be submitted to OGC.ExternalNotifications@bcogc.ca, or such other address as indicated in a notice from the Commission, at least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities.
3. At least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities, the Approval Holder must provide a notice of works to any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur.
4. Except with leave of the Commission, any nest site located within or adjacent to a stream, wetland or lake crossing must not be damaged by activities authorized under this approval.
5. Except with leave of the Commission or where the stream is dry or frozen at the time, water quality must be monitored by a qualified professional during construction or maintenance activities that involve:
 - a) construction or maintenance within a fish-bearing stream other than the installation or removal of flow isolation works;
 - b) new ground disturbance by heavy construction equipment within the riparian reserve zone of a S1, S2 or S3 stream or within 20 meters of an S4 stream.
6. Water monitoring under the above condition must:
 - a) monitor locations upstream and downstream of the location of any activities identified in condition 5;
 - b) identify, document and report to the Commission any exceedance of the *British Columbia Approved Water Quality Guideline: Aquatic Life, Wildlife & Agriculture* (March 2016 or as amended or replaced from time to time) (the "Water Quality Guidelines") likely caused by the construction or maintenance activities;
 - c) undertake and document measures to eliminate the cause of any exceedance identified under b) or, if the cause could not be eliminated, to minimize the duration and significance of any detrimental effects; and
 - d) make the information documented under b) and c) available to the Commission upon request.

7. Any substance, sediment, debris or material that could adversely impact the stream must not be allowed or permitted to enter or leach or seep into the stream from an activity, construction, worksite, storage site, machinery or from components used in the construction or maintenance of any works.
8. The Approval Holder must ensure all of the following for each crossing of a stream, wetland and lake:
 - a) the crossing is constructed and maintained at times and in a manner that is unlikely to harm fish or destroy, damage or harmfully alter fish habitat;
 - b) the crossing does not prevent the movement of fish, nor impede the movement of fish to the extent that it is harmful to the survival of the fish;
 - c) the side of the stream, lake or wetland is protected at the crossing; and
 - d) any disturbance to the stream channel and stream bank, wetland or lake bottom, as applicable, is mitigated.
9. Subject to the provisions of this approval, stream crossings must be constructed in accordance with the primary or contingency methods as specified in the Watercourse Crossing Table (01-13283-S3-0000-GEO-TEC-0001 R4.pdf, uploaded 2017-08-23 15:59:40.0) submitted with the application.
10. Where the primary crossing method is a trenchless crossing, leave of the Commission is required before implementing any type of contingency trenched crossing method, as specified in the Watercourse Crossing Table (01-13283-S3-0000-GEO-TEC-0001 R4.pdf, uploaded 2017-08-23 15:59:40.0) submitted with the application.
11. In-stream activities within a fish bearing stream, lake or wetland must occur:
 - a) during the applicable reduced risk work windows as specified in the regional timing windows for respective regions through which the pipeline passes and within which the works will occur;
 - b) in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the National Energy Board and provided to the Commission; or
 - c) in accordance with an authorization from Fisheries and Oceans Canada (DFO) that is provided to the Commission, or in accordance with DFO's Measures to Avoid Causing Harm to Fish and Fish Habitat.
12. Mechanical stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
 - a) To facilitate construction of a crossing, a machine is permitted to ford the stream a maximum of one time in each direction at the crossing location;
 - b) Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings;
 - c) Notwithstanding, (b), matting or steel plates may be used to cross streams classified as NCD, S4 or S6;
 - d) The Approval Holder must ensure that permanent bridges are designed and fabricated in compliance with:
 - (i) the Canadian Standards Association Canadian Bridge Design Code, CAN/CSA-S6; and
 - (ii) soil property standards, as they apply to bridge piers and abutments; set out in the Canadian Foundation of Engineering Manual.
 - e) Except with leave of the Commission, the Approval Holder must ensure that:
 - (i) any culverts used are designed and fabricated in compliance with the applicable:
 - (a) Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or
 - (b) Canadian Standards Association Standard CSA B1800, Section B182.2, Plastic Non-pressure Pipe Compendium, or
 - (ii) Any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.

- f) Except with leave of the Commission, the Approval Holder must ensure that bridges and culverts meet the criteria set out in (i), (ii), or (iii) below:
- (i) The bridge or culvert is designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in column 2 the table below for the period the Approval Holder anticipates the structure will remain on site, as set out in column 1 in the table below:

Column 1 Anticipated period crossing structure will remain on site	Column 2 Peak flow period
Bridge or culvert, 3 years or less	10 years
Bridge other than a bridge within a community watershed, more than 3 years but less than 15	50 years
Bridge within a community watershed, more than 3 years	100 years
Bridge, 15 years or more	100 years
Culvert, more than 3 years	100 years

- (ii) The bridge, or any component of the bridge:
- is designed to pass expected flows during the period the bridge is anticipated to remain on the site;
 - is constructed, installed and used only in a period of low flow; and
 - is removed before any period of high flow begins.
- (iii) The culvert:
- is a temporary installation, and the Approval Holder does not expect to subsequently install a replacement culvert at that location;
 - is not installed in a stream, when the stream contains fish;
 - is sufficient to pass flows that occur during the period the culvert remains on the site;
 - is installed during a period of low flow; and
 - is removed before any period of high flow begins.
- g) Ice bridges on fish bearing streams may only be constructed where sufficient water depth and stream flows prevent the bridge structure from coming in contact with the stream bottom;
- h) Water applied to construct an ice bridge on a water body must be sourced in accordance with the *Water Sustainability Act* unless:
- the water body is a stream with a stream channel width of at least 5 metres and is not designated as a sensitive stream under the *Fish Protection Act*, or has a riparian class of W1, W3, or L1;
 - the water is sourced from the same water body proximal to the location on which the ice bridge is constructed;
 - the water body is not within the boundaries of a public park;
 - pump intakes do not disturb beds of streams or wetlands and are screened with a maximum mesh size and approach velocity in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline; and
 - where the water body is a stream, the flow of water in the stream at the time and location of pumping exceeds 60 litres per second and the instantaneous pumping rate does not exceed 1% of the water flowing in the water body at the time and location the pumping occurs, or

- (b) where the water body is a lake or pond, the cumulative volume of water withdrawn does not exceed 10 cm of lake or pond depth, calculated as the product of lake or pond surface area x 10 cm.
- i) Records of water withdrawal and corresponding streamflow measurements are maintained by the Approval Holder and provided to the Commission upon request;
- j) Snow fills must consist of clean snow and may only be located on streams that are dry or frozen to the bottom during the period of construction, maintenance and use. Where periodic thaws are anticipated, culverts must be installed to allow meltwater to pass through. Snow fill and any installed culverts must be removed prior to spring snow melt;
- k) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width;
- l) Equipment used for activities under this approval must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity, or if under flowing conditions, is carried out in accordance with DFO's Measures to Avoid Harm to Fish and Fish Habitat, and the advice of a qualified professional.
13. Following initial pipeline construction, stream, lake and wetlands crossings are approved for necessary pipeline maintenance activities except for:
- a) works within the boundary of a provincial park;
- b) stream bank or stream bed revetment works in a stream classified as S1, S2, S3, S4 or S5;
- c) pipe replacement within the stream channel where the original application specified a trenchless crossing method and the planned works involve a trenched crossing method;
- d) permanent alteration of a stream bank;
- e) works within a Temperature Sensitive Stream established by order under s. 27 of the Environmental Protection and Management Regulation; or
- f) works within a Fisheries Sensitive Watershed established by order under s. 28 of the Environmental Protection and Management Regulation.
14. (1) Before any in-stream maintenance works in or adjacent to a stream or wetland crossing occurs where any of the following are established in relation to the stream or wetland after construction of the pipeline is complete:
- a) Species identified as special concern, threatened, or endangered under the federal *Species at Risk Act*, or
- b) Species identified by Order as a species at risk under the *Forest and Range Practices Act* or the *Oil and Gas Activities Act*.
- the Approval Holder must submit a plan developed by a qualified professional, to the satisfaction of the Commission, that specifies measures to avoid or mitigate potential impacts to those species.
- (2) The Approval Holder must implement the plan when undertaking the maintenance works.
15. Construction and maintenance activities in and about wetlands including wetland crossings must be constructed, maintained and removed in accordance with the following:
- a) retain organic cover within and adjacent to the wetland;
- b) minimize erosion or release of sediment within the wetland;
- c) ensure the natural flow of water is reasonably maintained;
- d) any padding materials must be placed on the wetland surface only and must not be used for infilling;
- e) except with leave of the Commission, construction or maintenance works within a W1 wetland containing open water must either be isolated or utilize sediment curtains to minimize turbidity;

- f) any padding materials must be removed as soon as practicable following construction, considering weather and ground conditions; and
 - g) the wetland, including banks and bed, must be restored, to the extent practicable, to the condition that existed before the crossing was initiated.
16. Open cut crossings and works within streams, lakes or wetlands must be planned and conducted in accordance with the following requirements:
- a) An open cut of a stream classified as S1, S2, S3 or S4 must not occur, unless the stream is frozen to its bed or is completely dry with no evidence of subsurface flow, unless otherwise approved by the National Energy Board and/or Fisheries and Oceans Canada;
 - b) Where the streambed or substrate consists of rocks, pebbles or coarse gravel overlaying finer material, this material must be removed and stockpiled separately outside the wetted perimeter of the stream for replacement during restoration;
 - c) Materials referred to in (b) above must be excavated and stockpiled in a manner that minimizes sediment dispersal within the stream, lake or wetland and must be replaced in a manner that minimizes disturbance to the stream, lake or wetland following pipeline installation;
 - d) Unless otherwise authorized by Fisheries and Oceans Canada, spawning gravels must not be disturbed when redds that contain eggs or alevins are present. The authorization must be provided to the Commission;
 - e) Channels, banks and beds of wetlands, including any disturbed stable natural material, must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated;
 - f) Excavated materials must be contained using appropriate techniques, so that that sediment-laden water and spoil do not re-enter the stream, lake or wetland;
 - g) Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to watercourses; and
 - h) Where feasible, aquatic vegetation and organic debris removed from the construction area must be salvaged and returned following trench backfilling, and channels, banks and beds of streams, including any disturbed stable natural material must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated.
17. Flow isolation crossings and works must be planned and conducted in accordance with (b) to (h) of the above condition regarding open cut crossings and the following additional requirements:
- a) Flow isolation works must be installed prior to any other in-stream construction work at the crossing;
 - b) After installation of the flow isolation works, construction of the crossing or works, including the location and operation of any equipment, must be isolated from water flowing in the stream;
 - c) Welding, coating, weighting and, where applicable testing, of the pipe must be completed prior to commencement of trenching within fish-bearing water bodies;
 - d) Water from flumes, pump-arounds, diversions, or other methods must be released to downstream areas in a manner that avoids erosion or sediment release;
 - e) Pump intakes must not disturb beds of fish bearing streams, lakes or wetlands except as necessary to ensure safe installation and operation of equipment, and must be screened with maximum mesh sizes and approach velocities in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline;
 - f) Water flows downstream of in-stream construction sites must be maintained at volume and discharge consistent with upstream flows; and
 - g) Ditch plugs must be maintained at or near the banks of the crossing and left in place until the crossing has been initiated.

18. Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to streams.

Advisory Guidance

1. Construction Plans are for the Approval Holder's internal reference only and were not reviewed as decision tools for this approval, nor do they form an integral part of this approval.
2. The Approval Holder should be aware that there may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as cultural resources that overlap the activity area. All reasonable efforts should be made to minimize interference with those activities and resources while carrying out the maintenance.

All pages included in this approval and any attached plan(s) form an integral part of this approval.



James O'Hanley
Vice President, Applications

APPROVALS

RE: Determination of Application Area Number 100100221

Approval Holder: Trans Mountain Pipeline ULC
Date of Issuance: October 13, 2017
Effective Date: October 13, 2017
Amendment Date: August 8, 2018
Application Submitted Date: April 12, 2017
Application Determination Number: 100100221

CUTTING PERMIT

“Permit Area” means the areas described in condition 1 of Schedule A of the following Licence of Occupation

Tenure No.: 9000174

Document No.: 954891

but does not include any areas described above that are located within:

1. A Community Forest Agreement, First Nations Woodland Licence, Tree Farm Licence, Timber Licence or Woodlot Licence unless there is an agreement with the Agreement or Licence holder to harvest the timber located within the Agreement or Licence area under the relevant Master Licence to Cut and associated cutting permit indicated below, or
2. A subsisting cutting permit issued to another party.

APPROVAL

Pursuant to section 47.4 of the *Forest Act*, and subject to the conditions of these permits the Commission hereby approves the removal of Crown timber from the Permit Area under the cutting permits associated with the Master Licences to Cut as follows:

Master Licence to Cut No.: M02455

Cutting Permit No.: 3

Timber Mark No.: MTB949

Total New Cut: 77.96 ha

Forest District: (DPG) Prince George Natural Resource District

Region: Interior

Master Licence to Cut No.: M02363

Cutting Permit No.: 8

Timber Mark No.: MTB950

Total New Cut: 190.74 ha

Forest District: (DKA) Thompson Rivers Natural Resource District

Region: Interior

Conditions

1. Timber harvesting under the above cutting permits must not commence until the Permit Holder has submitted the relevant appraisal documents to the Ministry of Forests, Lands and Natural Resource Operations and Rural Development and received confirmation of the stumpage rate.
2. Stumpage for the cutting permits will be determined according to the Interior Appraisal Manual (Manual) as amended from time to time. In the current version of the Manual, stumpage will be determined in accordance with Table 6-3 (volume based).
3. Clearing must be confined to the areas approved in the spatial data referenced in condition 1 above, and must not, without leave of the Commission, occur within:
 - a) an area containing a significant mineral lick, bear den, Trumpeter Swan nest, other nesting site, significant willow, or Sharp-tailed Grouse Lek, unless it is not damaged by activities approved under this permit;
 - b) Old Growth Management Areas, other than those identified in conflict in the Old Growth Management Areas Mitigation and Replacement Plan for the Trans Mountain Pipeline ULC Trans Mountain Expansion Project NEB Condition 76, dated September 2016, unless the incursion is less than 0.1 ha;
 - c) Wildlife Tree Retention Areas, except A15429, A58853, A18688, A88222, A56291, A15430, and T0713; or
 - d) a Riparian Management Area, except as approved in the spatial data referenced above, unless the Riparian Management Area has been previously cleared.
4. The Approval Holder is permitted to fell any trees located on Crown land within 1.5 tree lengths of the Permit Area that are considered to be a worker safety hazard under applicable regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the permit area without causing damage to standing timber may be harvested.
5. Prior to any clearing within Permanent Sample Plot 42-36-1G, any trees to be harvested must be measured, to the satisfaction of the Commission, and the results of those measurements must be submitted to the Commission and the Ministry of Forests, Lands and Natural Resource Operations and Rural Development.
6. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark (identified above) in accordance with timber marking requirements of the *Forest Act*.
7. Any timber removed from the Permit Area must be scaled in accordance with scaling requirements of the *Forest Act*.
8. The interior merchantability specifications identified in the Provincial Logging Residue and Waste Measurement Procedures Manual in place at the time the timber is harvested apply to these cutting permits.
9. The holder of the cutting permits must pay to the Province any waste billing determined in accordance with the Master Licence to Cut and the terms of this approval.

Termination

10. The cutting permits terminate upon the submission of the post construction plan required under the Licence of Occupation identified in the definition of Permit Area above or upon either the cancellation or expiry of that Licence.

Advisory Guidance

1. The Approval Holder should be aware that the approval under the *Forest Act* to harvest timber does not extend to harvesting within private land.
2. The Approval Holder should be aware that impacts to recreation features, trails, recreation facilities, interpretative forest sites or recreation sites identified, authorized or established under the *Forest and Range Practices Act* are subject to additional authorizations by the Ministry of Forests, Lands and Natural Resource Operations.

All pages included in this permit and any attached plan(s) form an integral part of this permit.



James O'Hanley
Vice President, Applications

CHANGES IN AND ABOUT A STREAM

APPROVAL

The Commission, pursuant to section 11 of the *Water Sustainability Act*, approves the changes in and about a stream, as detailed in the application, for construction and maintenance activities within the activity areas, unless otherwise restricted or refused by this approval and to the conditions below.

<p>Changes in and about a Stream No.: 0003860</p>	<p>As included in the application referenced herein, unless referenced in the Refused Activities table, below.</p>	<p>Tenure No.: N/A Document No.: N/A</p>
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Refusals

The approval of the application for changes in and about streams submitted as part of the Application Area Number referenced above does not include the activity(s) indicated in the Refused Activities table below and.

REFUSED ACTIVITIES

<p>Changes in and about a Stream</p>	<p>BC-52, BC-55, BC-56, BC-107</p>
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Conditions

1. Except with leave of the Commission, in-stream works must be carried out in accordance with the methods and any mitigations specified in the application.
2. A notice of maintenance activities must be submitted to OGC.ExternalNotifications@bcogc.ca, or such other address as indicated in a notice from the Commission, at least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities.
3. At least 21 working days prior to the commencement of any changes in or about a stream associated with maintenance activities, the Approval Holder must provide a notice of works to any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the works are to occur.
4. Except with leave of the Commission, any nest site located within or adjacent to a stream, wetland or lake crossing must not be damaged by activities authorized under this approval.
5. Except with leave of the Commission or where the stream is dry or frozen at the time, water quality must be monitored by a qualified professional during construction or maintenance activities that involve:
 - a) construction or maintenance within a fish-bearing stream other than the installation or removal of flow isolation works;
 - b) new ground disturbance by heavy construction equipment within the riparian reserve zone of a S1, S2 or S3 stream or within 20 meters of an S4 stream.
6. Water monitoring under the above condition must:
 - a) monitor locations upstream and downstream of the location of any activities identified in condition 5;
 - b) identify, document and report to the Commission any exceedance of the *British Columbia Approved Water Quality Guideline: Aquatic Life, Wildlife & Agriculture* (March 2016 or as amended or replaced

- from time to time) (the "Water Quality Guidelines") likely caused by the construction or maintenance activities;
- c) undertake and document measures to eliminate the cause of any exceedance identified under b) or, if the cause could not be eliminated, to minimize the duration and significance of any detrimental effects; and
 - d) make the information documented under b) and c) available to the Commission upon request.
7. Any substance, sediment, debris or material that could adversely impact the stream must not be allowed or permitted to enter or leach or seep into the stream from an activity, construction, worksite, storage site, machinery or from components used in the construction or maintenance of any works.
 8. The Approval Holder must ensure all of the following for each crossing of a stream, wetland and lake:
 - a) the crossing is constructed and maintained at times and in a manner that is unlikely to harm fish or destroy, damage or harmfully alter fish habitat;
 - b) the crossing does not prevent the movement of fish, nor impede the movement of fish to the extent that it is harmful to the survival of the fish;
 - c) the side of the stream, lake or wetland is protected at the crossing; and
 - d) any disturbance to the stream channel and stream bank, wetland or lake bottom, as applicable, is mitigated.
 9. Subject to the provisions of this approval, stream crossings must be constructed in accordance with the primary or contingency methods as specified in the Watercourse Crossing Table (01-13283-S3-0000-GEO-TEC-0001 R4.pdf, uploaded 2017-08-23 15:59:40.0) submitted with the application.
 10. Where the primary crossing method is a trenchless crossing, leave of the Commission is required before implementing any type of contingency trenched crossing method, as specified in the Watercourse Crossing Table (01-13283-S3-0000-GEO-TEC-0001 R4.pdf, uploaded 2017-08-23 15:59:40.0) submitted with the application.
 11. In-stream activities within a fish bearing stream, lake or wetland must occur:
 - a) during the applicable reduced risk work windows as specified in the regional timing windows for respective regions through which the pipeline passes and within which the works will occur;
 - b) in accordance with alternative timing and associated mitigation recommended by a qualified professional and accepted by the National Energy Board and provided to the Commission; or
 - c) in accordance with an authorization from Fisheries and Oceans Canada (DFO) that is provided to the Commission, or in accordance with DFO's Measures to Avoid Causing Harm to Fish and Fish Habitat.
 12. Mechanical stream crossings must be constructed, maintained and deactivated according to the following requirements, as applicable:
 - a) To facilitate construction of a crossing, a machine is permitted to ford the stream a maximum of one time in each direction at the crossing location;
 - b) Only bridges, culverts, ice bridges or snow fills may be constructed at stream crossings;
 - c) Notwithstanding, (b), matting or steel plates may be used to cross streams classified as NCD, S4 or S6;
 - d) The Approval Holder must ensure that permanent bridges are designed and fabricated in compliance with:
 - (i) the Canadian Standards Association Canadian Bridge Design Code, CAN/CSA-S6; and
 - (ii) soil property standards, as they apply to bridge piers and abutments; set out in the Canadian Foundation of Engineering Manual.
 - e) Except with leave of the Commission, the Approval Holder must ensure that:
 - (i) any culverts used are designed and fabricated in compliance with the applicable:
 - (a) Canadian Standards Association CSA G401, Corrugated Steel Pipe Products; or

- (b) Canadian Standards Association Standard CSA B1800, Section B182.2, Plastic Non-pressure Pipe Compendium, or
- (ii) Any pipe installed in lieu of a culvert is of at least equivalent standard and strength as any culvert as specified above.
- f) Except with leave of the Commission, the Approval Holder must ensure that bridges and culverts meet the criteria set out in (i), (ii), or (iii) below:
 - (i) The bridge or culvert is designed to pass the highest peak flow of the stream that can reasonably be expected within the return periods set out in column 2 the table below for the period the Approval Holder anticipates the structure will remain on site, as set out in column 1 in the table below:

Column 1 Anticipated period crossing structure will remain on site	Column 2 Peak flow period
Bridge or culvert, 3 years or less	10 years
Bridge other than a bridge within a community watershed, more than 3 years but less than 15	50 years
Bridge within a community watershed, more than 3 years	100 years
Bridge, 15 years or more	100 years
Culvert, more than 3 years	100 years

- (ii) The bridge, or any component of the bridge:
 - (a) is designed to pass expected flows during the period the bridge is anticipated to remain on the site;
 - (b) is constructed, installed and used only in a period of low flow; and
 - (c) is removed before any period of high flow begins.
- (iii) The culvert:
 - (a) is a temporary installation, and the Approval Holder does not expect to subsequently install a replacement culvert at that location;
 - (b) is not installed in a stream, when the stream contains fish;
 - (c) is sufficient to pass flows that occur during the period the culvert remains on the site;
 - (d) is installed during a period of low flow; and
 - (e) is removed before any period of high flow begins.
- g) Ice bridges on fish bearing streams may only be constructed where sufficient water depth and stream flows prevent the bridge structure from coming in contact with the stream bottom;
- h) Water applied to construct an ice bridge on a water body must be sourced in accordance with the *Water Sustainability Act* unless:
 - (i) the water body is a stream with a stream channel width of at least 5 metres and is not designated as a sensitive stream under the *Fish Protection Act*, or has a riparian class of W1, W3, or L1;
 - (ii) the water is sourced from the same water body proximal to the location on which the ice bridge is constructed;
 - (iii) the water body is not within the boundaries of a public park;
 - (iv) pump intakes do not disturb beds of streams or wetlands and are screened with a maximum mesh size and approach velocity in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline; and

- (a) where the water body is a stream, the flow of water in the stream at the time and location of pumping exceeds 60 litres per second and the instantaneous pumping rate does not exceed 1% of the water flowing in the water body at the time and location the pumping occurs, or
 - (b) where the water body is a lake or pond, the cumulative volume of water withdrawn does not exceed 10 cm of lake or pond depth, calculated as the product of lake or pond surface area x 10 cm.
 - i) Records of water withdrawal and corresponding streamflow measurements are maintained by the Approval Holder and provided to the Commission upon request;
 - j) Snow fills must consist of clean snow and may only be located on streams that are dry or frozen to the bottom during the period of construction, maintenance and use. Where periodic thaws are anticipated, culverts must be installed to allow meltwater to pass through. Snow fill and any installed culverts must be removed prior to spring snow melt;
 - k) Bridge or culvert abutments, footings and scour protection must be located outside the natural stream channel and must not constrict the channel width;
 - l) Equipment used for activities under this approval must not be situated in a stream channel unless it is dry or frozen to the bottom at the time of the activity, or if under flowing conditions, is carried out in accordance with DFO's Measures to Avoid Harm to Fish and Fish Habitat, and the advice of a qualified professional.
13. Following initial pipeline construction, stream, lake and wetlands crossings are approved for necessary pipeline maintenance activities except for:
- a) works within the boundary of a provincial park;
 - b) stream bank or stream bed revetment works in a stream classified as S1, S2, S3, S4 or S5;
 - c) pipe replacement within the stream channel where the original application specified a trenchless crossing method and the planned works involve a trenched crossing method;
 - d) permanent alteration of a stream bank;
 - e) works within a Temperature Sensitive Stream established by order under s. 27 of the Environmental Protection and Management Regulation; or
 - f) works within a Fisheries Sensitive Watershed established by order under s. 28 of the Environmental Protection and Management Regulation.
14. (1) Before any in-stream maintenance works in or adjacent to a stream or wetland crossing occurs where any of the following are established in relation to the stream or wetland after construction of the pipeline is complete:
- a) Species identified as special concern, threatened, or endangered under the federal *Species at Risk Act*; or
 - b) Species identified by Order as a species at risk under the *Forest and Range Practices Act* or the *Oil and Gas Activities Act*.
- the Approval Holder must submit a plan developed by a qualified professional, to the satisfaction of the Commission, that specifies measures to avoid or mitigate potential impacts to those species.
- (2) The Approval Holder must implement the plan when undertaking the maintenance works.
15. Construction and maintenance activities in and about wetlands including wetland crossings must be constructed, maintained and removed in accordance with the following:
- a) retain organic cover within and adjacent to the wetland;
 - b) minimize erosion or release of sediment within the wetland;
 - c) ensure the natural flow of water is reasonably maintained;
 - d) any padding materials must be placed on the wetland surface only and must not be used for infilling;

- e) except with leave of the Commission, construction or maintenance works within a W1 wetland containing open water must either be isolated or utilize sediment curtains to minimize turbidity;
 - f) any padding materials must be removed as soon as practicable following construction, considering weather and ground conditions; and
 - g) the wetland, including banks and bed, must be restored, to the extent practicable, to the condition that existed before the crossing was initiated.
16. Open cut crossings and works within streams, lakes or wetlands must be planned and conducted in accordance with the following requirements:
- a) An open cut of a stream classified as S1, S2, S3 or S4 must not occur, unless the stream is frozen to its bed or is completely dry with no evidence of subsurface flow, unless otherwise approved by the National Energy Board and/or Fisheries and Oceans Canada;
 - b) Where the streambed or substrate consists of rocks, pebbles or coarse gravel overlaying finer material, this material must be removed and stockpiled separately outside the wetted perimeter of the stream for replacement during restoration;
 - c) Materials referred to in (b) above must be excavated and stockpiled in a manner that minimizes sediment dispersal within the stream, lake or wetland and must be replaced in a manner that minimizes disturbance to the stream, lake or wetland following pipeline installation;
 - d) Unless otherwise authorized by Fisheries and Oceans Canada, spawning gravels must not be disturbed when redds that contain eggs or alevins are present. The authorization must be provided to the Commission;
 - e) Channels, banks and beds of wetlands, including any disturbed stable natural material, must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated;
 - f) Excavated materials must be contained using appropriate techniques, so that that sediment-laden water and spoil do not re-enter the stream, lake or wetland;
 - g) Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to watercourses; and
 - h) Where feasible, aquatic vegetation and organic debris removed from the construction area must be salvaged and returned following trench backfilling, and channels, banks and beds of streams, including any disturbed stable natural material must be restored, to the extent practicable, to the structure and conditions that existed before the crossing construction was initiated.
17. Flow isolation crossings and works must be planned and conducted in accordance with (b) to (h) of the above condition regarding open cut crossings and the following additional requirements:
- a) Flow isolation works must be installed prior to any other in-stream construction work at the crossing;
 - b) After installation of the flow isolation works, construction of the crossing or works, including the location and operation of any equipment, must be isolated from water flowing in the stream;
 - c) Welding, coating, weighting and, where applicable testing, of the pipe must be completed prior to commencement of trenching within fish-bearing water bodies;
 - d) Water from flumes, pump-arounds, diversions, or other methods must be released to downstream areas in a manner that avoids erosion or sediment release;
 - e) Pump intakes must not disturb beds of fish bearing streams, lakes or wetlands except as necessary to ensure safe installation and operation of equipment, and must be screened with maximum mesh sizes and approach velocities in accordance with the Fisheries and Oceans Canada Freshwater Intake End-of-Pipe Fish Screen Guideline;
 - f) Water flows downstream of in-stream construction sites must be maintained at volume and discharge consistent with upstream flows; and
 - g) Ditch plugs must be maintained at or near the banks of the crossing and left in place until the crossing has been initiated.

18. Any sediment-laden trench water must be pumped onto stable surfaces in a manner that does not cause erosion of soils or release of suspended sediments to streams.

Advisory Guidance

1. Construction Plans are for the Approval Holder's internal reference only and were not reviewed as decision tools for this approval, nor do they form an integral part of this approval.
2. The Approval Holder should be aware that there may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as cultural resources that overlap the activity area. All reasonable efforts should be made to minimize interference with those activities and resources while carrying out the maintenance.

All pages included in this approval and any attached plan(s) form an integral part of this approval.



James O'Hanley
Vice President, Applications



Licence of Occupation

Licence No.: 954891

File No.: 9000174

THIS AGREEMENT is dated for reference _____ and is made under the *Land Act*.

BETWEEN:

OIL and GAS COMMISSION, a corporation continued under the *Oil and Gas Activities Act*, S.B.C. 2008, c. 36, an agent of Her Majesty the Queen in Right of the Province of British Columbia, having its offices at 6534 Airport Road, Fort St. John, British Columbia V1J 4M6

(the "**Commission**")

AND:

TRANS MOUNTAIN PIPELINE ULC (Inc. No. A0070893) 2700, 300 – 5th Avenue SW Calgary, Alberta T2P 5J2

(the "**Licensee**")

The parties agree as follows:

ARTICLE 1 - INTERPRETATION

1.1 In this Agreement:

"**Agreement**" means this licence of occupation;

"**Certificates**" means Certificates OC-064, OC -049, and OC-02 issued by the National Energy Board on December 1, 2016.

"**Commencement Date**" means the date that is 30 days following the date upon which the Licensee provides notice to the Commission that it is prepared to commence activities on the Land;

"**Disposition**" has the meaning given to it in the *Land Act* and includes a licence of occupation;

"**Fee**" means the fee set out in Article 3;

"**Financing Entities**" means the Persons, if any, or their agent or trustee, providing the Licensee with any or all of its development, construction, operating, term or project financing with respect to the Improvements or the Pipeline or any activity related thereto, whether at the time of execution of this Agreement or during the term of this Agreement;

"**Improvements**" includes anything made, constructed, erected, built, altered, repaired or added to, in, on or under the Land, and attached to it or intended to become a part of it, and also includes any clearing, excavating, digging, drilling, tunnelling, filling, grading or ditching of, in, on or under the Land;

"Land" means:

Crown land within the Omineca and Thompson/Okanagan Districts (along construction corridor from b-20-B/83-E-3 to a-35-F/83-D-3), identified in the spatial data submitted to the Commission in permit application 100100221, on April 12, 2017 containing 459.17 hectares more or less;

except for those parts of the land that, on the Commencement Date, consist of highways (as defined in the *Highway Act*) and land covered by water;

"Person" means any individual, partnership, limited partnership, firm, trust, body corporate, agency, administrative board, unincorporated body of persons, association or government authority;

"Pipeline" has the same meaning as prescribed in the *National Energy Board Act* (Canada) and shall include the Pipeline approved by the Certificates;

"Province" means Her Majesty the Queen in Right of the Province of British Columbia;

"Realty Taxes" means all taxes, rates, levies, duties, charges and assessments levied or charged, at any time, by any competent governmental authority which relate to the Land, the Improvements or both of them and which you are liable to pay;

"Security" means the security referred to in section 6.1 or 6.2, as replaced or supplemented in accordance with section 6.5;

"Term" means the period of time set out in section 2.2;

"we", "us" or "our" refers to the Commission alone and never refers to the combination of the Commission and the Licensee: that combination is referred to as **"the parties"**; and

"you" or "your" refers to the Licensee.

- 1.2 In this Agreement, "person" includes a corporation, firm or association and wherever the singular or masculine form is used in this Agreement it will be construed as the plural or feminine or neuter form, as the case may be, and vice versa where the context or parties require.
- 1.3 The captions and headings contained in this Agreement are for convenience only and do not define or in any way limit the scope or intent of this Agreement.
- 1.4 This Agreement will be interpreted according to the laws of the Province of British Columbia.
- 1.5 Where there is a reference to an enactment of the Province of British Columbia or of Canada in this Agreement, that reference will include a reference to every amendment to it, every regulation made under it and any subsequent enactment of like effect and, unless otherwise indicated, all enactments referred to in this Agreement are enactments of the Province of British Columbia.
- 1.6 If any section of this Agreement, or any part of a section, is found to be illegal or unenforceable, that section or part of a section, as the case may be, will be considered separate and severable and the remainder of this Agreement will not be affected and this Agreement will be enforceable to the fullest extent permitted by law.

- 1.7 Each schedule to this Agreement is an integral part of this Agreement as if set out at length in the body of this Agreement.
- 1.8 This Agreement constitutes the entire agreement between the parties and no understanding or agreement, oral or otherwise, exists between the parties with respect to the subject matter of this Agreement except as expressly set out in this Agreement and this Agreement may not be modified except by subsequent agreement in writing between the parties.
- 1.9 Each party will, upon the request of the other, do or cause to be done all lawful acts necessary for the performance of the provisions of this Agreement.
- 1.10 All provisions of this Agreement in our favour and all of our rights and remedies, either at law or in equity, will survive the termination of this Agreement.
- 1.11 Time is of the essence of this Agreement.
- 1.12 Wherever this Agreement provides that an action may be taken, a consent or approval must be obtained or a determination must be made, then you or we, as the case may be, will act reasonably in taking such action, deciding whether to provide such consent or approval or making such determination.

ARTICLE 2 - GRANT AND TERM

- 2.1 On the terms and conditions of this Agreement, including the conditions specified in Schedule A, we grant you a licence for you, and your employees, invitees, agents, consultants, Financing Entities, and contractors and their subcontractors to occupy the Land only for the purposes of excavating for, constructing, operating, removing, replacing, reconstructing, repairing and safeguarding the Improvements necessary for the purpose of construction and operation of the Pipeline, including all accesses, deck sites and workspace and for telecommunications equipment necessary for the operation of such Improvements or the Pipeline; and you acknowledge this licence of occupation does not grant you exclusive use and occupancy of the Land.
- 2.2 This Agreement is effective as of the date of execution, and the Term shall commence on the Commencement Date and continue until the fifth (5th) anniversary of that date, or such earlier date provided for in writing when you notify the Commission that you no longer require the Land for the purposes identified in section 2.1 or pursuant to a termination under Article 9.
- 2.3 Within one year after:
- (a) construction of the pipeline is complete; or
 - (b) an amendment to the Land is approved by the Commission,
- you must submit to the Commission a boundary plan of the Land prepared and completed by a British Columbia Land Surveyor;
- 2.4 If you:
- (a) satisfy the requirements of section 218 of the *Land Title Act*;
 - (b) are not in default under this Agreement; and

- (c) have delivered a written notice to us not later than 30 days prior to the expiration of this Agreement confirming that a boundary plan of the Land has been prepared and completed by a British Columbia Land Surveyor,

then, upon payment to us of the fees due under the *Land Act* as prescribed by the Land Use Operational Policy – Utilities for the issuance of a statutory right of way, we will grant to you a statutory right of way over the Land described in the boundary plan, in a form substantially similar to the form used by the Commission at the time of issuance of the statutory right of way, as may be amended to address the terms and conditions agreed to between the Commission and the Licensee.

ARTICLE 3 - FEES

- 3.1 You will pay to us the Fee for the Term, being \$500.00, payable within 90 days of the Offered date.

ARTICLE 4- COVENANTS

- 4.1 You must:

- (a) pay, when due:
- (i) the Fee to us at the address set out in Article 11;
 - (ii) the Realty Taxes; and
 - (iii) all charges for electricity, gas, water and other utilities supplied to the Land for use by you or on your behalf or with your permission;
- (b) deliver to us, immediately upon demand, receipts or other evidence of the payment of Realty Taxes and all other money required to be paid by you under this Agreement;
- (c) observe, abide by and comply with:
- (i) all applicable laws, bylaws, orders, directions, ordinances, of any competent governmental authority, having jurisdiction over the Pipeline, Improvements and associated activities, or the use or occupation of the Land or the Improvements; and
 - (ii) the provisions of this Agreement;
- (d) in respect of the use of the Land by you or by anyone you permit to use the Land, keep the Land and the Improvements in a safe, clean and sanitary condition satisfactory to us, and at our written request, make the Land and the Improvements safe, clean and sanitary;
- (e) use and occupy the Land only in accordance with and for the purposes set out in section 2.1;
- (f) not construct, place or affix any Improvement on or to the Land except as necessary for the purposes set out in section 2.1;

- (g) pay all accounts and expenses as they become due for work performed on or materials supplied to the Land at your request, on your behalf or with your permission, except for money that you are required to hold back under the *Builders Lien Act*;
- (h) if any claim of lien over the Land is made under the *Builders Lien Act* for work performed on or materials supplied to the Land at your request, on your behalf or with your permission, immediately take all steps necessary to have the lien discharged, unless the claim of lien is being contested in good faith by you and you have taken the steps necessary to ensure that the claim of lien will not subject the Land or any interest of yours under this Agreement to sale or forfeiture;
- (i) not cut or remove timber on or from the Land without being granted the right under the Forest Act to harvest Crown timber on the Land;
- (j) following any soil disturbance resulting from the Licensee's construction or maintenance of the Improvements, and as soon as it is practicable to do so, at your expense:
 - (i) cause all construction debris to be removed from that part of the Land, and
 - (ii) replace all topsoil removed from and grade and contour that part of the Land so it is suitable for its use as a pipeline right of way under this Agreement,to the standard required by the applicable laws and the terms of the applicable Pipeline approvals;
- (k) permit us, or our authorized representatives, to enter on the Land at any time to inspect the Land and the Improvements;
- (l) indemnify and save us, the Province and our and the Province's servants, employees and agents harmless against all claims, actions, causes of action, losses, damages, costs and liabilities, including fees of solicitors and other professional advisors, arising out of:
 - (i) your breach, violation or non-performance of a provision of this Agreement; and
 - (ii) any personal injury, bodily injury (including death) or property damage occurring or happening on or off the Land that was caused by your entry upon, use or occupation of the Land,the amount of all such losses, damages, costs and liabilities will be payable to us or the Province immediately upon demand; and
- (m) if a statutory right of way has not been entered into pursuant to Section 2.4 prior to the termination of this Agreement:
 - (i) cease the use of and decommission, abandon and/or remove the portion of the Pipeline within the Land in accordance the applicable laws and the directions of the applicable government agency governing the Pipeline, and in accordance with our reasonable requirements that are not in conflict with such laws;
 - (ii) restore the surface of the Land as nearly as may reasonably be possible to the same condition as it was on the Commencement Date; and

- (iii) thereafter, peaceably quit and deliver possession of the Land to us,

and all of your right, interest, and estate in the Land will be absolutely forfeited to us, and to the extent necessary, this covenant will survive the termination of this Agreement.
 - (n) if artifacts, features, materials or things protected under section 13(2) of the *Heritage Conservation Act* are identified, unless you hold a permit under section 12 of the *Heritage Conservation Act* in respect of that artifact, feature, material or thing:
 - (i) immediately cease all work in the vicinity of the artifacts, features, materials or things; and
 - (ii) immediately notify the Commission and the Archaeology Branch, Ministry of Forests, Lands & Natural Resource Operations; and refrain from resuming work in the vicinity of the artifacts, features, materials or things except in accordance with an appropriate mitigation plan that has been prepared in accordance the *Heritage Conservation Act*.
- 4.2 You will not permit any person to do anything you are restricted from doing under this Article.
- 4.3 We will not do anything on the Land that will interfere materially with the Improvements or your use of the Improvements, or that creates a public hazard.

ARTICLE 5 - LIMITATIONS

- 5.1 You agree with us that:
- (a) we and the Province are under no obligation to provide access or services to the Land or to maintain or improve existing access roads;
 - (b) this Agreement is subject to:
 - (i) all subsisting dispositions and subsisting grants to or rights of any person made or acquired under the *Coal Act*, *Forest Act*, *Mineral Tenure Act*, *Petroleum and Natural Gas Act*, *Land Act*, *Range Act*, *Wildlife Act* or *Water Act*, or any extension or renewal of the same, whether or not you have actual notice of them; and
 - (ii) the exceptions and reservations of interests, rights, privileges and titles referred to in section 50 of the *Land Act*;
 - (c) without limiting subsection 4.1(l) and subject to subsection 5.1(e), you must indemnify and save us, the Province and our and the Province's servants, employees and agents harmless from and against all claims, actions, causes of action, losses, damages, costs and liabilities, including fees of solicitors and other professional advisors, arising out of any conflict between your rights under this Agreement and the rights of any person under a disposition or under a subsisting grant to or right of any person made or acquired under the *Coal Act*, *Forest Act*, *Mineral Tenure Act*, *Petroleum and Natural Gas Act*, *Range Act*, *Wildlife Act* or *Water Act* (or any prior or subsequent enactment of the Province of British Columbia of like effect), or any extension or renewal of the same, whether or not you have actual notice of them, and the amount of all such losses, damages, costs and liabilities will be payable to us immediately upon demand;

- (d) subject to subsection 5.1(e), you release us and the Province from all claims, actions, causes of action, suits, debts and demands that you now have or may at any time in the future have against us or the Province arising out of any conflict between your rights under this Agreement and the rights of any person under a disposition or under a subsisting grant to or right made or acquired under the enactments referred to in subsection (c), and you acknowledge that this Agreement and your rights under this Agreement are subject to those grants and rights referred to in subsection (c) whether or not you have actual notice of them;
- (e) notwithstanding subsections (c) and (d), the Commission and the Province agree that any future disposition or grant of or over the Land shall be subject to compliance with any federal regulatory requirements applicable to the Pipeline, your activities and use of the Land;
- (f) you will make no claim against us or the Province for compensation, in damages or otherwise, in respect of a disposition made under subsection (e), where such disposition does not materially affect the exercise of your rights under this Agreement;
- (g) subject to subsection (f), all of your costs and expenses, direct or indirect, that arise out of any lawful interference with your rights under this Agreement as a result of the exercise or operation of the interests, rights, privileges and titles reserved to us and the Province in subsections (b) and (e) will be borne solely by you;
- (h) you will not commence or maintain proceedings under section 65 of the Land Act in respect of any lawful interference with your rights under this Agreement that arises as a result of the exercise or operation of the interests, rights, privileges and titles described in subsections (b) and (e);
- (i) you will not remove or permit the removal of any Improvement from the Land except as expressly permitted or required under this Agreement and the *National Energy Board Act* (Canada) or any other applicable legislation;
- (j) any interest you may have in the Improvements ceases to exist and becomes our property upon the termination of this Agreement, except where an Improvement may be removed under paragraph 4.1(m); and
- (k) if, after the termination of this Agreement, we permit you to remain in possession of the Land and we accept money from you in respect of such possession, a tenancy from year to year will not be created by implication of law and you will be deemed to be a monthly occupier only subject to all of the provisions of this Agreement, except as to duration, in the absence of a written agreement to the contrary.

ARTICLE 6 - SECURITY AND INSURANCE

6.1 You acknowledge that we may notify you to deliver to us security within 60 days' of such notice, which will:

- (a) guarantee the performance of your obligations under this Agreement;
- (b) be in the form and amount required by us; and

- (c) remain in effect until we certify, in writing, that you have fully performed your obligations under this Agreement.
- 6.2 Despite section 6.1, your obligations under that section are suspended for so long as you maintain in good standing other security acceptable to us to guarantee the performance of your obligations under this Agreement and all other dispositions held by you.
- 6.3 We may use the Security for the payment of any costs and expenses incurred by us and the Province to perform any of your obligations under this Agreement that are not performed by you or to pay any overdue Fees and, if such event occurs, you will, within 30 days of that event, deliver further Security to us in an amount equal to the amount drawn down by us.
- 6.4 After we certify, in writing, that you have fully performed your obligations under this Agreement, we will return to you any Security maintained under section 6.1, less all amounts drawn down by us under section 6.3.
- 6.5 You acknowledge that we may, from time to time, notify you to:
- (a) change the form or amount of the Security; and
- (b) provide and maintain another form of Security in replacement of or in addition to the Security posted by you under this Agreement. Such replacement of additional Security will be appropriate and reasonable for your activities under the Agreement.
- and you will, within 60 days of receiving such notice, deliver to us written confirmation that the change has been made or the replacement or additional form of Security has been provided by you.
- 6.6 You must:
- (a) without limiting your obligations or liabilities under this Agreement, at your expense, effect and keep in force during the Term Comprehensive/Commercial General Liability insurance protecting us and the Province as additional insured in an amount of not less than \$1,000,000.00 inclusive per occurrence insuring against liability for personal injury, bodily injury (including death) or property damage, and claims for liability assumed under contract, arising from all accidents or occurrences on the Land or the Improvements;
- (b) on the Commencement Date and immediately upon demand, deliver to us a completed "Province of British Columbia Certificate of Insurance" for all insurance required to be maintained by you under this Agreement;
- (c) ensure that all insurance required to be maintained by you under this Agreement is:
- (i) placed with insurers licensed in British Columbia;
- (ii) primary and does not require the sharing of any loss by any insurer that insures us; and
- (iii) endorsed to provide us with 30 days' advance written notice of cancellation; and

- (d) allow us, upon written request, to review and inspect at your premises all policies of insurance required to be maintained by you under this Agreement. No copies or photos of your policies shall be made.

6.7 You acknowledge that we may, from time to time, notify you to:

- (a) reasonably change the amount of insurance set out in subsection 6.6(a); and
- (b) provide and maintain another type or types of insurance in replacement of or in addition to the insurance previously required to be maintained by you under this Agreement. Such replacement of additional insurance will be appropriate and reasonable for your activities under this Agreement; and you will, within 60 days of receiving such notice, cause the amounts and types to be changed and deliver to us a completed "Province of British Columbia Certificate of Insurance" for all insurance then required to be maintained by you under this Agreement.

ARTICLE 7 - OWNERSHIP

7.1 Notwithstanding the fact that you may install a Pipeline and Improvements within or on the Land in such a manner that it or they become affixed to the Land, the Pipeline and Improvements will remain your property and you may, at any time, remove the whole or any part of the Pipeline and Improvements in accordance with the applicable laws.

ARTICLE 8 – ASSIGNMENT

8.1 Except as otherwise permitted in this Agreement, you must not sublicense, assign, mortgage or transfer this Agreement or permit any person to use or occupy the Land, without our prior written consent, which consent will not be unreasonably withheld, conditioned, or delayed.

8.2 Prior to considering a request for consent under section 8.1, we may, to the extent the matter is not already addressed by the National Energy Board in connection with the approval of a transfer of the Certificates by the Licensee, require you to submit to us a "site profile", "preliminary site investigation" or "detailed site investigation" (as those terms are defined in the *Environmental Management Act*) or other similar type of investigation on or over a portion of the Land that we consider to require such an investigation based upon a reasonable expectation of contamination thereon.

ARTICLE 9- TERMINATION

9.1 You agree with us that:

- (a) if you:
 - (i) default in the payment of any money payable by you under this Agreement; or
 - (ii) fail to observe, abide by and comply with the provisions of this Agreement (other than the payment of any money payable by you under this Agreement),

and your default or failure continues for 60 days after we give written notice of the default or failure to you;

- (b) if the Certificates authorizing you to construct and operate the Pipeline has expired, or been terminated or cancelled and you are not pursuing reinstatement, an appeal or other available cure options, or the Certificates has not been reinstated, reissued or otherwise replaced to allow for the construction and operation of the Pipeline; or
- (c) if:
 - (i) any case, proceeding or other action shall be instituted in any court of competent jurisdiction against you, seeking in respect of you an adjudication in bankruptcy, reorganization of your indebtedness, dissolution, winding up, liquidation, a composition, proposal or arrangement with creditors, a readjustment of debts, the appointment of a trustee, receiver, receiver and manager, interim receiver, custodian, liquidator sequestrator or other person with similar powers with respect to you or of all or any substantial part of your property, or any other like relief in respect of you under the Bankruptcy and Insolvency Act (Canada), the Companies' Creditors Arrangement Act (Canada), or any other bankruptcy, insolvency or analogous law and:
 - (A) such case, proceeding or other action results in an entry of an order for relief or any such adjudication or appointment; or
 - (B) the same shall continue undismissed, or unstayed and in effect, for any period of 60 days; or
 - (ii) you make any assignment in bankruptcy or you make any other assignment for the benefit of creditors, you make any proposal under the Bankruptcy and Insolvency Act (Canada) or any comparable law, you seek relief under the Companies' Creditors Arrangement Act (Canada), or any other bankruptcy, insolvency or analogous law, or you file a petition or proposal to take advantage of any act of insolvency; or
- (d) if this Agreement is taken in execution or attachment by any person and such execution or attachment is not released, bonded, satisfied, discharged, vacated or stayed within 60 days after the entry, commencement or levy; or
- (e) if a statutory right of way has been entered into between the Commission and the Licensee pursuant to Section 2.4;

this Agreement may be, at our option and with or without entry, terminated upon 30 days prior written notice to you and your right to use and occupy the Land will cease. We agree that any termination under this Article 9 does not prevent you from seeking lawful authority to use the Land pursuant to another statutory authority.

- 9.2 If the condition complained of (other than the payment of any money payable by you under this Agreement) reasonably requires more time to cure than 60 days, you will be deemed to have complied with the remedying of it if you commence remedying or curing the condition within 60 days and diligently complete the same.

9.3 You agree with us that:

- (a) you will make no claim for compensation, in damages or otherwise, upon the lawful termination of this Agreement under section 9.1; and
- (b) our remedies under this Article are in addition to those available to us under the *Land Act*.

ARTICLE 10 - DISPUTE RESOLUTION

- 10.1 If any dispute arises under this Agreement, the parties will attempt to resolve the dispute within 60 days of the dispute arising (or within such other time period agreed to by the parties) and, subject to applicable laws, provide candid and timely disclosure to each other of all relevant facts, information and documents to facilitate those efforts.
- 10.2 If a dispute under this Agreement cannot be resolved under section 10.1, we or you may refer the dispute to arbitration conducted by a sole arbitrator appointed pursuant to the *Arbitration Act*.
- 10.3 The cost of the arbitration referred to in section 10.2 will be shared equally by the parties and the arbitration will be governed by the laws of the Province of British Columbia.
- 10.4 The arbitration will be conducted at our offices (or the offices of our authorized representative) in Fort St. John, British Columbia, and if we or our authorized representative have no office in Fort St. John, British Columbia, then our offices (or the offices of our authorized representative) that are closest to Fort St. John, British Columbia.

ARTICLE 11 - NOTICE

11.1 Any notice required to be given by either party to the other will be deemed to be given if mailed by prepaid registered mail in Canada or delivered to the address of the other as follows:

(a) to us:

OIL and GAS COMMISSION
Bag 2
Fort St. John, BC V1J 2B0;

(b) to you:

TRANS MOUNTAIN PIPELINE ULC
2700, 300 – 5th Avenue S.W.
Calgary, AB T2P 5J2;

or at such other address as a party may, from time to time, direct in writing, and any such notice will be deemed to have been received if delivered, on the day of delivery, and if mailed, 7 days after the time of mailing, except in the case of mail interruption in which case actual receipt is required.

11.2 In order to expedite the delivery of any notice required to be given by either party to the other, a concurrent facsimile copy of any notice will, where possible, be provided to the other party but nothing in this section, and specifically the lack of delivery of a facsimile copy of any notice, will affect the deemed delivery provided in section 11.1.

- 11.3 The delivery of all money payable to us under this Agreement will be effected by hand, courier or prepaid regular mail to the address specified above, or by any other payment procedure agreed to by the parties, such deliveries to be effective on actual receipt.

ARTICLE 12 - MISCELLANEOUS

- 12.1 No provision of this Agreement will be considered to have been waived unless the waiver is in writing, and a waiver of a breach of a provision of this Agreement will not be construed as or constitute a waiver of any further or other breach of the same or any other provision of this Agreement, and a consent or approval to any act requiring consent or approval will not waive or render unnecessary the requirement to obtain consent or approval to any subsequent same or similar act.
- 12.2 No remedy conferred upon or reserved to us under this Agreement is exclusive of any other remedy in this Agreement or provided by law, but that remedy will be in addition to all other remedies in this Agreement or then existing at law, in equity or by statute.
- 12.3 The grant of a sublicense, assignment or transfer of this Agreement does not release you from your obligation to observe and perform all the provisions of this Agreement on your part to be observed and performed unless we specifically release you from such obligation in our consent to the sublicense, assignment or transfer of this Agreement.
- 12.4 This Agreement extends to, is binding upon and enures to the benefit of the parties, their heirs, executors, administrators, successors and permitted assigns.
- 12.5 If, due to a strike, lockout, labour dispute, act of God, inability to obtain labour or materials, law, ordinance, rule, regulation or order of a competent governmental authority, enemy or hostile action, civil commotion, fire or other casualty or any condition or cause beyond your reasonable control, other than normal weather conditions, you are delayed in performing any of your obligations under this Agreement, the time for the performance of that obligation will be extended by a period of time equal to the period of time of the delay so long as
- (a) you give notice to us within 30 days of the commencement of the delay setting forth the nature of the delay and an estimated time frame for the performance of your obligation;
 - and (b) you diligently attempt to remove the delay.
- 12.6 You agree with us that:
- (a) we are under no obligation, express or implied, to provide financial assistance or to contribute toward the cost of servicing, creating or developing the Land or the Improvements and you are solely responsible for all costs and expenses associated with your use of the Land and the Improvements for the purposes set out in this Agreement; and
 - (b) nothing in this Agreement constitutes you as our agent, joint venturer or partner or gives you any authority or power to bind us or the Province in any way.

Licence of Occupation

Licence No.: 954891

File No.: 9000174

12.7 This Agreement does not override or affect any powers, privileges or immunities to which you are entitled under any enactment of the Province of British Columbia.

The parties have executed this Agreement as of the date of reference of this Agreement.

SIGNED on behalf of the **OIL and GAS
COMMISSION** by a duly authorized signatory



Authorized Signatory – James O'Hanley, Vice
President Applications

SIGNED on behalf of **TRANS MOUNTAIN
PIPELINE ULC** by a duly authorized signatory

Authorized Signatory

SCHEDULE A – ADDITIONAL CONDITIONS

Approval Holder: Trans Mountain Pipeline ULC
Application Submitted Date: April 12, 2017
Application Determination Number: 100100221
Approved Disturbance Footprint: 459.17 ha

Activity Area

1. The approvals granted under this Agreement to occupy and use the Land are limited to the areas identified in the spatial data submitted to the Commission in the permit application as identified in the following table:

NEB Ancillary Activity No: 00161709-00161711, 00162054-00162079, 00162107-00162114	Type: Access	Tenure No.: 9000174 Document No.: 954891
NEB Ancillary Activity No: 00161954-00162003, 00162014-00162053	Type: Deck Site	
NEB Ancillary Activity No: 00161685-00161708, 00161712-00161953, 00162004-00162013, 00162080-00162106, 00162115-00162139	Type: Workspace	
NEB Pipeline Right of Way No.: 000024482 Land Area Number: 100003905 FROM: b-020-B / 083-E-03 TO: a-035-F / 083-D-03	Segment No.: 001	

2. The approvals to occupy and use the Land identified in the above table are subject to the following;
- a) The total disturbance caused by the approved activities must not exceed the total approved disturbance footprint as referenced above.
 - b) The permission to occupy and use the Land excludes the area within map reserves designated under sections 16 and 17 of the *Land Act*, unless:
 - (i) the map reserves have been amended for the purposes of the Trans Mountain Expansion Project; or
 - (ii) the Trans Mountain Expansion Project has been deemed compatible use with the overlapped map reserves.

Notification

3. A notice of construction start must be submitted to OGC.ExternalNotifications@bcogc.ca, or such other address as indicated in a notice from us, at least 48 hours prior to the commencement of activities under this Agreement.
4. At least 48 hours prior to the commencement of activities under this Agreement, you must provide notice to any First Nation(s) who may have Aboriginal Interests identified, as per the BC First Nations Consultative Areas Database, within the area in which the work is to commence.
5. Within 60 days of the completion of construction activities on the Land you must submit to us a post-construction plan as a shapefile and PDF plan accurately identifying the location of the total area actually disturbed under the Licence.

Environmental

6. Unless a condition or its context suggests otherwise, terms used in this approval have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.
7. Clearing and site preparation must be confined to the area approved in the Certified Project Description of the associated Environmental Assessment Certificate, except as otherwise approved in conditions 1 and 2 above, and must not, without our approval, occur within an area containing a significant mineral lick, bear den, Trumpeter Swan nest, other nesting site, significant wallow or Sharp-tailed grouse lek, unless it is not damaged by these activities.
8. Construction activities must not result in rutting, compaction or erosion of soils that cannot be reasonably rehabilitated to similar levels of soil productivity that existed on the operating area prior to the construction activities taking place.
9. Any temporary access must be constructed and maintained in a manner that provides for proper surface drainage, prevents pooling on the surface, and maintains slope integrity.
10. You must make reasonable efforts to prevent establishment of invasive plants on the Land resulting from the carrying out of activities authorized under the Agreement.
11. You must take reasonable measures to ensure that the quality, quantity or timing of flow of the water to any waterworks located within or adjacent to the pipeline right of way and workspace is not materially adversely affected. If it is not practicable to avoid such an effect, you must:
 - a) take all reasonable measures to minimize the adverse effect;
 - b) provide notice to the owner or user of the waterworks before or as soon as practicable following any adverse effect; and
 - c) for the period of adverse effect, provide the owner or user of the waterworks with an alternate supply of water of equal or better quality.
12. If construction activities result in the removal or rendering ineffective of a range barrier, you must, before livestock is turned out on the area, or, if livestock turnout has occurred, as soon as practicable, construct a replacement barrier that is at least as effective as the one removed or rendered ineffective was before the removal or rendering ineffective.
13. Recreation sites, recreation trails, or recreation facilities established or authorized under the *Forest and Range Practices Act* that are adversely affected by construction activities must be restored to their pre-construction condition.
14. To protect karst features you must:
 - a) prior to construction, ensure a qualified professional completes an assessment identifying any karst features within 100 m of approved activities,
 - b) submit a report, satisfactory to us, identifying the results of the assessment, including any potential impacts to a karst feature and any planned mitigation of those impacts, and
 - c) implement the mitigations, if any, specified in the report under b).
15. Dust control measures must be undertaken, where necessary, to ensure that dust resulting from construction activities does not affect safe travel on a road or significantly impair the use and enjoyment of lawfully occupied permanent dwellings, significant public use areas or other similar areas.
16. You must undertake reasonable measures to mitigate noise from the construction activity that has the potential to affect public safety or significantly impair the use and enjoyment of lawfully occupied permanent dwellings, significant public use areas during periods of use or other similar areas.
17. Following completion of construction activities, you must, as soon as practicable:
 - a) decompact any soils compacted by the activity;
 - b) if natural surface drainage pattern was altered by the carrying out of the activity restore the affected area, to the extent practicable, to the drainage pattern and its condition before the alteration; and

- c) re-vegetate any soil exposed by the activities including, where necessary, using seed or vegetative propagules of an ecologically suitable species that:
 - (i) promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun; and
 - (ii) stabilize the soil if it is highly susceptible to erosion.
18. Following completion of construction activities, any retrievable surface soils disturbed by the activity must be redistributed on the Land so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.

Archaeology

27. An AIA report must be submitted to the Commission as soon as practicable.

ADVISORY GUIDANCE

1. Construction Plans are for your internal reference only and were not reviewed as decision tools for this permit, nor do they form an integral part of this Agreement.
2. Approvals under s.39 of the *Land Act* do not extend to Indian Reserves; parks, protected areas or recreation areas designated under the *BC Parks Act*; municipal Crown land; or private land.
3. Impacts to recreation features, trails, recreation facilities, interpretative forest sites or recreation sites identified, authorized or established under the *Forest and Range Practices Act* are subject to additional authorizations by the Ministry of Forests, Lands and Natural Resource Operations.
4. There may be First Nation's traditional, cultural, or spiritual activities occurring concurrently with maintenance activities, as well as cultural resources found on the Land. All reasonable efforts should be made to minimize interference with those activities and resources while carrying out the maintenance.