



June 28, 2016

FortisBC Energy Inc.
16705 Fraser Highway
Surrey, B.C.
V4N 0E8

Attention: Stacie Hammond

RE: Investigative Use within Units 44, 45, 53, 54, 55 & 63, Block J, 92-G-11

Date of Issuance: June 28, 2016
Commission No.: 9641120

PERMISSIONS

Petroleum and Natural Gas Act

1. Pursuant to section 138(1) of the *Petroleum and Natural Gas Act*, the permit holder is permitted to enter, occupy, and use any unoccupied Crown land located within the areas described in the attached sketch plan, WSP FILE: 010055813SK01R0, revision 0, dated March 14, 2016 (the "construction plan"), by WSP Surveys (BC) Limited Partnership as submitted to the Commission in the permit application dated April 26, 2016 to construct and operate a related activity for the purposes of carrying out oil and gas activities as defined in the *Oil and Gas Activities Act* (hereinafter referenced together as the "operating area"), subject to the conditions set out below.
 - (1) The permission to occupy and use Crown land expires two years from the date of issuance, unless the Commission has received notice of construction start, or this permit is otherwise extended, suspended, cancelled, surrendered or declared spent.
 - (2) The permission to occupy and use Crown land does not entitle the permit holder to exclusive possession of the operating area.
 - (3) The total disturbance within the operating area must not exceed 11.06 ha.

AUTHORIZATIONS

Forest Act

2. Pursuant to section 47.4 of the *Forest Act*, the permit holder is authorized to remove Crown timber from the operating area under Cutting Permit No. 2 under Master Licence to Cut number M02401.
3. This Cutting Permit is deemed spent upon the submission of the post-construction plan or upon either the cancellation or the expiry of the activities authorized by this permit.

CONDITIONS

Notification:

1. A notice of construction start must be submitted to the Commission a minimum of 48 hours prior to the commencement of activities under this permit. Notification must be sent to OGC.ExternalNotifications@bcogc.ca.
2. Within 60 days of the completion of construction activities under this permit, the permit holder must submit to the Commission a post-construction plan as an ePASS shape file and PDF plan accurately identifying the location of the total area actually disturbed under this permit. The shape file and plan must be submitted to postconstructionplan@bcogc.ca.
3. The permit holder must notify the Tseil-Waututh Nation a minimum of five (5) working days prior to commencement of activities.
4. The permit holder must notify the Squamish Nation a minimum of five (5) working days prior to commencement of activities.
5. The permit holder must notify the District of Squamish a minimum of five (5) working days prior to commencement of activities.

General:

6. The rights granted by this permit in relation to unoccupied Crown land are subject to all subsisting grants to or rights of any person made or acquired under the *Coal Act*, *Forest Act*, *Land Act*, *Mineral Tenure Act*, *Petroleum and Natural Gas Act*, *Range Act*, *Water Sustainability Act* or *Wildlife Act*, or any extension or renewal of the same.
7. The permit holder must not assign, sublicense or transfer this permit or permit any person to use or occupy Crown land, other than its employees, contractors, or representatives, without the Commission's written consent.
8. The permit holder must ensure that any Crown land within the operating area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
9. The permit holder must ensure that any Crown land within the operating area is free of garbage, debris and unused equipment.

Environmental:

10. The permit holder must not undertake clearing activities between April 1 and September 14th in identified Marble Murrelet critical habitat unless pre-clearing surveys are completed and clearing activities do not occur within 100 meters of any nest
11. Following completion of the construction activities authorized under this authorization the permit holder must, as soon as practicable,
 - (1) decompact any soils compacted by the activity;
 - (2) if natural surface drainage pattern was altered by the carrying out of the activity, the permit holder must restore, to the extent practicable, to the drainage pattern and its condition before the alteration; and
 - (3) ensure re-vegetation of any exposed soil on the operating area including, where necessary, using seed or vegetative propagules of an ecologically suitable species that
 - (a) promote the restoration of the wildlife habitat that existed on the operating area before the oil and gas activity was begun, and
 - (b) stabilize the soil if it is highly susceptible to erosion.
12. Following completion of the activities permitted under this permit, any surface soils removed from the operating area must be redistributed so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.

Clearing:

13. All harvested Crown timber must be marked with Timber Mark Number MTB 906.
14. Cutting Permit No. 2 does not grant the permit holder the exclusive right to harvest Crown timber from the operating area. Authority to harvest some or all of the timber may be granted to other persons. The permit holder's right to harvest timber applies to any timber found on the operating area at the time they undertake harvesting activities.
15. Stumpage for Cutting Permit No. 2 will be calculated in accordance with the Interior Appraisal 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).
16. The Interior merchantability specifications and monetary waste billing requirements in the Provincial Logging Residue and Waste Measurement Procedures Manual that are in effect upon issuance of this authorization apply to any waste assessments required under Master License to Cut M02401.
17. The holder of Cutting Permit No. 2 must pay to the government, stumpage and any waste billing determined in accordance with the terms of this authorization.
18. The permit holder is authorized to fell any trees located on Crown land within 1.5 tree lengths of the operating area that are considered to be a safety hazard according to *Workers Compensation Act* regulations and must be felled in order to eliminate the hazard. Trees or portions of these trees that can be accessed from the operating area without causing damage to standing timber may be harvested.

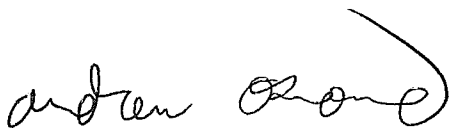
Archaeology:

19. A permitted archaeologist must monitor each sample point and if necessary conduct testing to ensure that archaeological resources are not impacted.
20. If artifacts, features, materials or things protected under section 13(2) of the Heritage Conservation Act are identified the permit holder must, unless the permit holder holds a permit under section 12 of the Heritage Conservation Act issued by the Commission in respect of that artifact, feature, material or thing:
 - a. immediately cease all work in the vicinity of the artifacts, features, materials or things;
 - b. immediately notify the Commission and the Archaeology Branch of the Ministry of Forests, Lands and Natural Resource Operations
 - c. 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 with the Heritage Conservation Act and approved by the Commission.

ADVISORY GUIDANCE

1. Appropriate tenure will be issued upon acceptance of the post-construction plan. Submission of the original application and submission of the post-construction plan is considered an application for all subsequent applicable *Land Act* tenures. Upon the Commission's acceptance of the post-construction plan no further applications for replacement tenure are required.
2. Unless a condition or its context suggests otherwise, terms used in this authorization have the same meaning as the Environmental Protection and Management Regulation under the *Oil and Gas Activities Act*.

The attached plan(s) forms an integral part of this permit.



Andrew Osmond
Natural Resource Officer

pc: CH2M Hill Energy Canada Ltd.
Commission No.: 9641120
Worksafe BC
MoFLNRO: Sea to Sky
OGC First Nations: SQN, TWN



Commission File No: 9641120

May 26, 2015

FortisBC Energy Inc. (FortisBC)
16705 Fraser Highway
Surrey, BC V4N 0E8

Attention: James Lota

Re: Investigative Permit - Section 14 over Crown Land, New Westminster District
Within units 44,45,53,54,55 & 63, Block J, 92-G-11.

Date of Issuance: May 26, 2015
Commission File No: 9641120

PERMISSIONS

The Oil and Gas Commission (Commission) hereby authorizes the holder of permit number 9641120, under Section 14 of the *Land Act*, to allow FortisBC Energy Inc. (FortisBC or permit holder) to occupy Crown land within the areas described as geotechnical investigation corridor in the attached sketch plan FOCUS: 010048785SK01R2, Revision 2, dated 2014/08/22 as submitted to the Commission in the permit application dated May 12, 2015 (hereafter referenced together as the "Site"), to conduct appraisals, inspections, analyses, inventories, surveys or other investigations under Authorization Number 946201, subject to the conditions set out below.

CONDITIONS

1. The permit holder may use and occupy the Site only for the purposes of investigating the site for potential oil and gas activities and related activities as defined in the *Oil and Gas Activities Act*.
2. The total disturbance within the investigative area must not exceed 0.35 ha.
3. The permit holder will indemnify the Province of British Columbia (the Province) and the Commission against all losses, damages, costs and liabilities arising out of any breach or non-performance of any condition or agreement set out in this Permit and any personal injury, death or property damage occurring within the Site, or happening by virtue of its occupation of the Site, and the amount of such losses, damages and costs shall be payable to the Province or the Commission immediately.
4. The permit holder will immediately effect, and keep in force while this Permit is in effect, insurance of an amount not less than \$1,000,000 protecting the Province, the Commission and the permit holder (without any rights of cross-claim or subrogation) against claims for personal injury, death, property damage, or third party or public liability claims arising from any accident or occurrence on the Site.
5. The permit holder will restore the Site to the satisfaction of the Commission following the completion of the investigative works.

6. The authorization to occupy and use Crown land does not entitle the permit holder to exclusive possession of the Site. The permit holder will not interfere with any person found on the Site who has a public right of access over the Site or is using the Site pursuant to a prior or subsequent *Land Act* disposition.
7. The rights granted by this permit are subject to 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*, *Water Act* or *Wildlife Act*, or any extension or renewal of the same, any prior dispositions made under the *Land Act*, and the exceptions and reservations of rights and interests under section 50 of the *Land Act*.
8. The permit holder will acknowledge and agree that any interference with rights granted under this permit by virtue of the exercise or operation of the rights or interests set out in the Sections (6) or (7) above shall not constitute a breach of the Province's or the Commission's obligations under this permit and the permit holder will release and discharge the Province and/or the Commission from any claim for loss or damage arising directly or indirectly out of any such interference. The permit holder will also agree to pay all costs and expenses that arise out of the permit holder's interference with the rights or interests set out in Sections (6) or (7) and that the permit holder will not commence or maintain proceedings under Section 65 of the *Land Act* with respect to interference with the permit holder's rights arising out of exercise or operation of the rights set out in Sections (6) or (7).
9. The permit holder must pay to the Province, when due, the Fees, to the address and in accordance with the instructions set out in the attached covering letter.
10. The permit holder must not assign or sub-tenure this Permit. The permit holder must not transfer this permit without the Commission's written consent, which consent may be granted or withheld at the Commission's sole discretion.
11. This permit expires one (1) year from the date of issuance.
12. The permit holder must notify the Commission five (5) working days prior to commencing construction. Notification must be sent to C&E@bcogc.ca.
13. The permit holder must prepare a Security and Management Response Plan before commencing investigative activities.
14. The permit holder must keep a copy of the Security and Management Response Plan at the Site during investigative activities and must, on the request of the Commission, make available to the Commission a copy of the Security and Management Response Plan.
15. The permit holder must ensure that the security and management measures identified in the Security and Management Response Plan are implemented during investigative activities.
16. A permitted archaeologist must monitor each sample point and if necessary conduct testing to ensure that archaeological resources are not impacted.
17. An Archaeological Impact Assessment (AIA) report is required and must be submitted to the Commission as soon as possible as per the Archaeology Process Guidelines.
18. If artifacts, materials or things protected under section 13(2) of the *Heritage Conservation Act* are identified the permit holder must, unless the permit holder holds a permit under section 12 of the *Heritage Conservation Act* in respect of that artifact, feature, material or thing:
 - a. immediately cease all work in the vicinity of the artifacts, features, materials or things;
 - b. immediately notify the Archaeology Branch of the Ministry of Forestry, Lands and

- Natural Resource Operations and Commission; and
- c. 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 with the *Heritage Conservation Act*, endorsed by a qualified archaeologist, and approved by the Archaeology Branch of the Ministry of Forestry, Lands and Natural Resource Operations.
19. Within 60 days of the completion of the clearing phase of the activity authorized, the permit holder must submit to the Commission a post-construction plan as an ePASS shape file accurately identifying the locations of the overall disturbance within the Site.
20. The permit holder must abide by and comply with all applicable laws, bylaws, orders, directions, ordinances, and regulations of any government authority having jurisdiction in any way affecting its use or occupation of the Site, including, without limitation, the provisions of the *Land Act* and the provisions of this Permit.

ADDITIONAL AUTHORIZATIONS ASSOCIATED WITH THE PERMIT

An Occupant License to Cut (OLTC) L50134, providing for the cutting of timber, is attached to this permit.

ADDITIONAL CONDITIONS

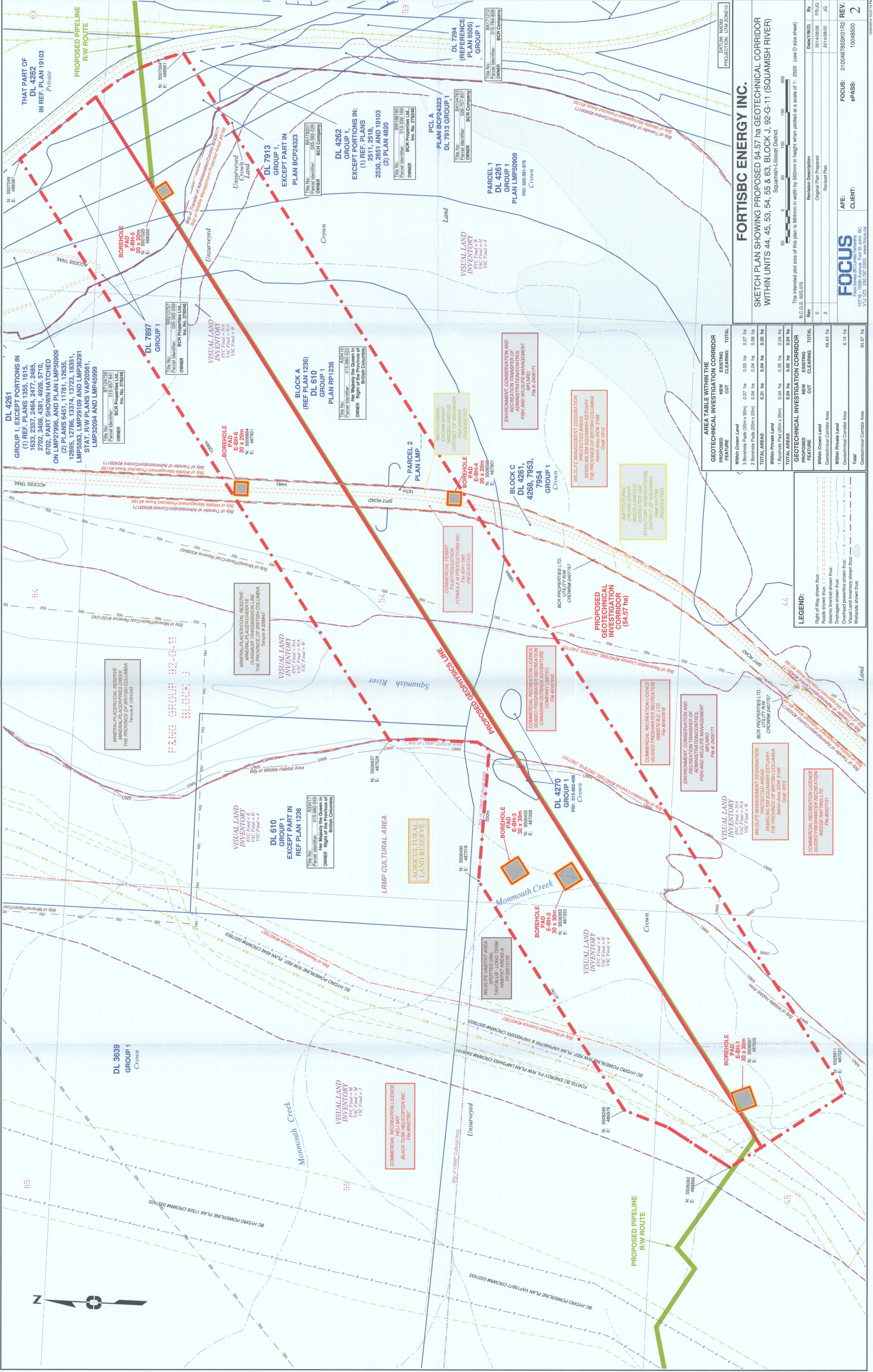
1. The permit holder must meet all conditions in the following authorizations granted by the Ministry of Forests, Lands and Natural Resource Operations, and any subsequent authorizations related to these works:
 - a. The *Wildlife Act* authorization provided by letter and dated May 5, 2015 under file 39850-20 (attached);
 - b. The exemption to the general wildlife measures for Wildlife Habitat Area 2-517 to cut trees in long term spotted owl habitat area, provided by letter and dated September 30, 2014 under file 36460—20 (attached); and
 - c. The *Dike Maintenance Act* authorization provided by letter and dated May 4, 2015 under file 35050-20 (attached).
2. The permit holder must notify the District of Squamish a minimum of five (5) working days prior to commencement of activities.
3. The permit holder must notify the Squamish Nation a minimum of five (5) working days prior to commencement of activities.
4. The permit holder must notify the Tsleil-Waututh Nation a minimum of five (5) working days prior to commencement of activities.

The attached plan(s) form an integral part of this authorization: FOCUS: 010048785SK01R2, Revision 2, dated 2014/08/22



Ken Paulson, P. Eng.
Chief Operating Officer

pc: OGC File No. 9641120
pc: Squamish Nation
pc: Tsleil - Waututh Nation



FORTISBC ENERGY INC.

**SKETCH PLAN SHOWING PROPOSED 54.57 ha GEOTECHNICAL CORRIDOR
WITHIN UNITS 44, 45, 53, 54, 55 & 63, BLOCK J, 92-G-11 (SQUAMISH RIVER)**

The intended plot size of this plan is 864mm in width by 560mm in height when plotted at a scale of 1" = 2500' (use D size sheet)
S.C.G.S. 493.075

Rev	Revision Description	Date (Y/M/D)	By
0	Original Plan Prepared	2014/08/08	FRJQ
2	Revised Plan	2014/08/22	JQ

AFE:	FOCUS:	REV.
1971-1972, 250, 787, 0300	010048785SK01R2	2
CLIENT:	ePASS:	

AREA TABLE WITHIN THE GEOTECHNICAL INVESTIGATION CORRIDOR			
PROPOSED FEATURE	NEW CUT	EXISTING CUT	TOTAL
Within Crown Land 3 Borehole Pads (30m x 30m)	0.27 ha	0.00 ha	0.27 ha
2 Borehole Pads (20m x 20m)	0.04 ha	0.04 ha	0.08 ha
TOTAL AREAS	0.31 ha	0.04 ha	0.35 ha
GEOTECHNICAL INVESTIGATION CORRIDOR			
PROPOSED FEATURE	NEW CUT	EXISTING CUT	TOTAL
Within Crown Land Geotechnical Corridor Area	48.43 ha		48.43 ha
Within Private Land Geotechnical Corridor Area	6.14 ha		6.14 ha
Total	54.57 ha		54.57 ha

LEGEND:

- Right of Way shown thus: ———
- Proposed Geotechnical Corridor shown thus: ———
- Statute boundary shown thus: ———
- Drainages shown thus: ———
- Overhead powerline shown thus: ———
- Visual Land Inventory shown thus: ———
- Wetlands shown thus: ———



Commission File No: 9641120

December 23, 2014

FortisBC Energy (Vancouver Island) Inc. (FEVI)
16705 Fraser Highway
Surrey, BC V4N 0E8

Attention: James Lota

Re: Investigative Permit - Section 14 over Crown Land, New Westminster District
Within units 44,45,53,54,55 & 63, Block J, 92-G-11.

Date of Issuance: December 23, 2014
Commission File No: 9641120

PERMISSIONS

The Oil and Gas Commission (Commission) hereby authorizes the holder of permit number 9641120, under Section 14 of the *Land Act*, to allow FortisBC Vancouver Energy (Vancouver Island) Inc. (FEVI or permit holder) to occupy Crown land within the areas described as geotechnical investigation corridor in the attached sketch plan FOCUS: 010048785SK01R2, Revision 2, dated 2014/08/22 as submitted to the Commission in the permit application dated October 28, 2014 (hereafter referenced together as the "Site"), to conduct appraisals, inspections, analyses, inventories, surveys or other investigations under Authorization Number 946201, subject to the conditions set out below.

CONDITIONS

1. The permit holder may use and occupy the Site only for the purposes of investigating the site for potential oil and gas activities and related activities as defined in the *Oil and Gas Activities Act*.
2. The total disturbance within the investigative area must not exceed 0.35 Ha.
3. The permit holder will indemnify the Province of British Columbia (the Province) and the Commission against all losses, damages, costs and liabilities arising out of any breach or non-performance of any condition or agreement set out in this Permit and any personal injury, death or property damage occurring within the Site, or happening by virtue of its occupation of the Site, and the amount of such losses, damages and costs shall be payable to the Province or the Commission immediately.
4. The permit holder will immediately effect, and keep in force while this Permit is in effect, insurance of an amount not less than \$1,000,000 protecting the Province, the Commission and the permit holder (without any rights of cross-claim or subrogation) against claims for personal injury, death, property damage, or third party or public liability claims arising from any accident or occurrence on the Site.
5. The permit holder will restore the Site to the satisfaction of the Commission following the completion of the investigative works.

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7. The rights granted by this permit are subject to 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*, *Water Act* or *Wildlife Act*, or any extension or renewal of the same, any prior dispositions made under the *Land Act*, and the exceptions and reservations of rights and interests under section 50 of the *Land Act*.
8. The permit holder will acknowledge and agree that any interference with rights granted under this permit by virtue of the exercise or operation of the rights or interests set out in the Sections (6) or (7) above shall not constitute a breach of the Province's or the Commission's obligations under this permit and the permit holder will release and discharge the Province and/or the Commission from any claim for loss or damage arising directly or indirectly out of any such interference. The permit holder will also agree to pay all costs and expenses that arise out of the permit holder's interference with the rights or interests set out in Sections (6) or (7) and that the permit holder will not commence or maintain proceedings under Section 65 of the *Land Act* with respect to interference with the permit holder's rights arising out of exercise or operation of the rights set out in Sections (6) or (7).
9. The permit holder must pay to the Province, when due, the Fees, to the address and in accordance with the instructions set out in the attached covering letter.
10. The permit holder must not assign or sub-tenure this Permit. The permit holder must not transfer this permit without the Commission's written consent, which consent may be granted or withheld at the Commission's sole discretion.
11. This permit expires six (6) months from the date of issuance.
12. The permit holder must notify the Commission five (5) working days prior to commencing construction. Notification must be sent to C&E@bcogc.ca.
13. The permit holder must prepare a Security and Management Response Plan before commencing investigative activities.
14. The permit holder must keep a copy of the Security and Management Response Plan at the Site during investigative activities and must, on the request of the Commission, make available to the Commission a copy of the Security and Management Response Plan.
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Natural Resource Operations and Commission; and

- c. 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 with the Heritage Conservation Act, endorsed by a qualified archaeologist, and approved by the Archaeology Branch of the Ministry of Forestry, Lands and Natural Resource Operations.
19. Within 60 days of the completion of the clearing phase of the activity authorized, the permit holder must submit to the Commission a post-construction plan as an ePASS shape file accurately identifying the locations of the overall disturbance within the Site.
20. The permit holder must abide by and comply with all applicable laws, bylaws, orders, directions, ordinances, and regulations of any government authority having jurisdiction in any way affecting its use or occupation of the Site, including, without limitation, the provisions of the Land Act and the provisions of this Permit.

ADDITIONAL AUTHORIZATIONS ASSOCIATED WITH THE PERMIT

An Occupant License to Cut (OLTC) L50134, providing for the cutting of timber, is attached to this permit.

ADDITIONAL CONDITIONS

1. The permit holder must meet all conditions in the following authorizations granted by the Ministry of Forests, Lands and Natural Resource Operations, and any subsequent authorizations related to these works:
 - a. The *Wildlife Act* authorization provided by letter and dated December 1, 2014 under file 39850-20 (attached);
 - b. The exemption to the general wildlife measures for Wildlife Habitat Area 2-517 to cut trees in long term spotted owl habitat area, provided by letter and dated September 30, 2014 under file 36460—20 (attached); and
 - c. The *Dike Maintenance Act* authorization provided by letter and dated September 29, 2014 under file 35050-20 (attached).
2. The permit holder must notify the District of Squamish a minimum of five (5) working days prior to commencement of activities.
3. The permit holder must notify the Squamish Nation a minimum of five (5) working days prior to commencement of activities.
4. The permit holder must notify the Tsleil-Waututh Nation a minimum of five (5) working days prior to commencement of activities.

The attached plan(s) form an integral part of this authorization: FOCUS: 010048785SK01R2, Revision 2, dated 2014/08/22



Ken Paulson, P. Eng.
Chief Operating Officer

pc: Peace Country Land Ltd.
pc: OGC File No. 9641120
pc: Squamish Nation
pc: Tsleil - Waututh Nation