



July 15, 2016

Coastal GasLink Pipeline Ltd.
450 – 1st Street SW
Calgary, Alberta T2P 5H1

Attention: Katherine Sheriff

RE: Geotechnical Investigation within Unit 62, Block G, 96-K-1, NW ¼ Sec 22 and REM N ½ Sec 21 Tp 19, R5

Date of Issuance: August 14, 2016
Commission No.: 9638322

AUTHORIZATIONS

Land Act

1. The BC Oil and Gas Commission (the "Commission"), under section 39 of the *Land Act*, hereby authorizes Coastal GasLink Pipeline Ltd. (the "permit holder") to occupy and use the Crown land area identified in the attached construction plan number CGW4703-MCSL-G-MP-155-AC Clear Creek Geotech Rev0, revision 0, January 16, 2014 (the "construction plan"), submitted to the Commission dated June 20, 2016 (hereinafter referenced together as the "operating area") 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*, subject to the conditions set out below.
 - (1) The total disturbance within the operating area must not exceed 4.30 ha.
 - (2) A section 39 License of Occupation for the Crown land portion of this authorization is attached or will follow. The permit holder is subject to the conditions contained in the Licence of Occupation.
 - (3) The authorization 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.

CONDITIONS

Notification:

2. 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 via eSubmission.
3. 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 a shapefile and PDF plan accurately identifying the location of the total area actually disturbed under this permit. The shapefile and plan must be submitted via eSubmission.

Environmental:

4. Following completion of the activities authorized herein 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) re-vegetate any exposed soil on the operating area using seed or vegetative propagules of an ecologically suitable species that:
 - (a) promote the restoration of the wildlife habitat that existed on the area before the oil and gas activity was begun, and
 - (b) stabilize the soil if it is highly susceptible to erosion.
5. Following completion of the activities authorized herein, any surface soils removed from the site must be redistributed so that the soil structure is restored, to the extent practicable, to its condition before the activity was begun.

Clearing:

6. 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:

7. An Archaeological Impact Assessment is required for the proposed development area prior to any development activities taking place.

If an archaeological site is recorded as a result of this assessment, a report must be submitted immediately to the Oil and Gas Commission and all mitigation measures must be approved by OGC archaeology staff prior to the start of construction.

If no archaeological site is recorded during this assessment, an AIA report is still required and must be submitted to the OGC as soon as possible as per the Archaeology Process Guidelines.

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 in respect of that artifact, feature, material or thing:

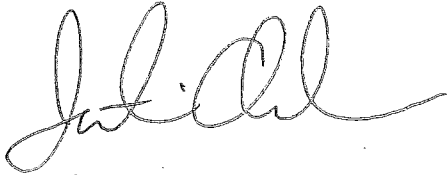
- a) immediately cease all work in the vicinity of the artifacts, features, materials or things;
- b) immediately notify the Commission; and
- c) refrain from resuming work in the vicinity of the artifacts, features, materials or things except in accordance with an appropriate mitigation plan that has been prepared in accordance the Heritage Conservation Act, endorsed by a qualified archaeologist, 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 approval 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 authorization.



For:

Ashley Istead
Natural Resource Officer

pc: Roy Northern Land Service Ltd.
Commission No.: 9638322
Worksafe BC
OGC First Nations: NAB, NWFN, SUFN



August 14, 2015

Coastal GasLink Pipeline Ltd.
450 - 1st Street SW
Calgary, AB T2P 5H1

Attention: Coastal GasLink Pipeline Ltd.

RE: Temporary Occupation of Crown Land – Investigative Use Permit
Investigative Use Location: Unit 62, Block G, 96-K-1, NW ¼ Sec 22 and REM N ½ Sec 21 Tp 19, R5
Date of Issuance: August 14, 2015
Commission File No: 9638322

AUTHORIZATIONS

Temporary Permit under section 14 of the *Land Act*

1. The BC Oil and Gas Commission, hereby authorizes the holder of Permit number 9638322, to temporarily occupy and use Crown land for the purpose of conducting appraisals, inspections, analyses, inventories, surveys or other investigations, under Authorization Number 949092, subject to the following:
 - a. The authorization granted under this Permit is limited to the area described in construction plan number CGW4703-MCSL-G-MP-155-AC Clear Creek Geotech Rev 0, revision 0, dated January 16, 2014.
 - b. The prescribed period of this Permit expires on August 14, 2016.
 - c. 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 on the site or happening by virtue of the Permit holder's occupation of the site, and the amount of such losses, damages and costs shall be payable to the Province or the Commission immediately.
 - d. The Permit holder will immediately effect, and keep in force while occupying the site, 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.
 - e. The authorization to occupy and use Crown land does not entitle the Permit holder to exclusive possession of the area. The Permit holder will not interfere with the activities of another person entering on and using the area under a prior or subsequent Land Act disposition.
 - f. 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.
 - g. 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 sections (c) or (d) 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 (c) or (d) 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 (c) or (d).
 - h. The Permit holder must pay, when due, the Fees to the address set out in the attached covering letter.

- i. The Permit holder must not assign, sublicense or transfer this Permit or Permit any person to use or occupy the Land, without the Commission's written consent.

Cutting Permit Authorization

1. The Commission hereby issues the Permit holder Cutting Permit No. 2 under Master Licence to Cut number MO2342, subject to the following conditions:
 - a. This Cutting Permit is subject to the terms and conditions in the Master Licence to Cut.
 - b. This Cutting Permit applies to only the Crown land portion shown on survey plan associated with CGW4703-MCSL-G-MP-155-AC Clear Creek Geotech Rev 0, revision 0, dated January 16, 2014.
 - c. All harvested Crown timber must be marked with Timber Mark Number MSZ 959.
 - d. This Cutting Permit is deemed spent upon the submission of the "Post-Construction Plan" or upon either the cancellation or the expiry of the "permitted oil and gas activity".
 - e. This Cutting Permit does not grant the Permit Holder the exclusive right to harvest timber from the License area and the Commission reserves the right to grant rights to other persons to harvest timber from the License area.
 - f. The felling, bucking and utilization specifications as described in Appendix A of your Master License to Cut applies to this Cutting Permit.
 - g. Stumpage for this Cutting Permit will be calculated as per the applicable timber appraisal manual.
 - h. Timber that is stored in decks or piles must be marked with the correct timber mark before transportation, or at the end of every shift. The marking must be applied to one end of at least 10% of the timber pieces in each deck or pile using a hammer indentation or paint. Marking must be kept concurrent with decking.
 - i. Where the Permit Holder is aware of overlapping forest tenure rights that have been granted to other persons, the Permit Holder is obligated to communicate to these persons the timing and extent of their harvest operations at least two weeks prior to commencement of harvest and take all reasonable steps to coordinate their activities with these persons.
 - j. In accordance with the Master Licence to Cut referenced above, "Within 60 days of completing operations on a Cutting Permit, the Licensee shall submit to the Commission a map showing all disturbances that have occurred pursuant to that Cutting Permit, at a scale of 1:20,000 or 1:50,000".

Additional 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 permit holder will restore the site to the satisfaction of the Oil and Gas Commission following expiration or cancellation of this Permit.
3. The total disturbance within the Site must not exceed 4.3 ha.
4. The permit holder must notify the Commission 48 hours prior to commencing construction. Notification must be sent to C&E@bcogc.ca.
5. 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 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.

6. 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.
7. Ditching, topsoil removal and road prism construction are not permitted.
8. The permit hold must notify Nak'azdli First Nation, Nadleh Whut'en First Nation, and Saik'uz First Nation prior to commencement of the project.
9. The attached plan(s) form an integral part of this authorization.

Lori Phillips
Authorized Signatory
Commission Delegated Decision Maker

cc: Roy Northern
OGC File: 9638322
WorkSafe BC



OGC File: 9638322

August 14, 2013

Coastal GasLink Pipeline Ltd.
450 1st Street SW
Calgary, Alberta, T2P 5H1

Attention: Surface Land Administrator

Re: Investigative Permit- Section 14 over Crown Land, Range 5 Coast District
within unit 62, block G, 96-K-1, NW ¼ Sec 22 and REM N ½ Sec 21 Tp 19 R 5.

Date of Issuance: August 13, 2013
Commission File No: 9638322
Applicant File No: 130473

PERMISSIONS

The Oil and Gas Commission ("Commission") hereby authorizes the holder of permit number 9638322, under section 14 of the *Land Act*, to allow Coastal GasLink Pipeline Ltd. (the "permit holder") to occupy Crown land within the areas described as borehole pads, temp access (investigative area) and temp 5.0 access (segment) in the attached sketch plan Document No: CGW4703-MCSL-G-MP-024-GeoTech-1940-KP329-Sketch-Rev0, Revision 0, dated April 25, 2013, as submitted to the Commission in the permit application dated June 12, 2013, (hereinafter referenced together as the "Site"), to conduct appraisals, inspections, analyses, inventories, surveys or other investigations under Authorization Number 941218, subject to 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 Site must not exceed 4.3 Ha.
3. The permit holder will indemnify the Province of British Columbia (the Province) and the Oil and Gas 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 Oil and Gas 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 Oil and Gas Commission following expiration or cancellation of this Permit.
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 two years from the date of issuance.
12. The permit holder must notify the Commission prior to commencing activities under this permit. Notification may be sent to C&E@bcogc.ca.
13. An Archaeological Impact Assessment is required for the proposed development area prior to any development activities taking place.
14. If an archaeological site is recorded as a result of this assessment, a report must be submitted immediately to the Oil and Gas Commission and all mitigation measures must be approved by OGC archaeology staff prior to the start of construction.
15. If no archaeological site is recorded during this assessment, an AIA report is still required and must be submitted to the OGC as soon as possible as per the Archaeology Process Guidelines.

16. 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 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
 - 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 the Heritage Conservation Act, endorsed by a qualified archaeologist, and approved by the Commission.
17. 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.
18. 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.

CUTTING PERMIT AUTHORIZATION

Pursuant to section 47.4 of the *Forest Act*, the Commission hereby issues Cutting Permit No. 2, under Master License to Cut number M02342, Vanderhoof Forest District, to cut and remove timber from the areas of Crown land within the area within the Site subject to the following conditions:

1. This Cutting Permit expires 2 years from the date of issuance of the Investigative Permit or the revised date should this permit be extended.
2. This Cutting Permit is subject to the terms and conditions in the Master Licence to Cut.
3. All harvested Crown timber must be marked with Timber Mark Number MSZ 959.
4. The felling, bucking and utilization specifications in the Master License to Cut apply to this Cutting Permit.
5. Stumpage under this cutting permit is required to be paid to the Crown and will be determined with the Ministry of Forests Interior Appraisal Manual.
6. Timber that is stored in decks or piles must be marked with the correct timber mark before transportation, or at the end of every shift. The marking must be applied to one end of at least 10% of the timber pieces in each deck or pile using a hammer indentation or paint. Marking must be kept concurrent with decking.
7. In accordance with the Master Licence to Cut referenced above, "Within 60 days of completing operations on a cutting permit, the Licensee shall submit to the Commission a map showing all disturbances that have occurred pursuant to that Cutting Permit, at a scale of 1:20,000 or 1:50,000."
8. The utilization of merchantable timber is not mandatory for this permit.
9. Prior to harvesting, any clearing authorized by this Cutting Permit must be clearly defined on the ground by ribboning or blazing.
10. This permit authorizes a maximum total new cut area of 4.30 Ha within the Site.

ADDITIONAL CONDITIONS

1. Ditching, topsoil removal, and road prism construction are not permitted.

ADVISORY GUIDANCE

1. The Commission requests the permit holder notify the Nak'azdli First Nation prior to commencement of the project.
2. The Commission requests the permit holder notify the Nadleh Whut'en First Nation prior to commencement of the project.
3. The Commission requests the permit holder notify the Saik'uz First Nation prior to commencement of the project.

The attached plan(s) form an integral part of this authorization.



Amanda Fraser
Natural Resource Officer

pc: FLNRO – Vanderhoof

pc: Nak'azdli First Nation, Nadleh Whut'en First Nation, Saik'uz First Nation

BOREHOLE	NORTHING	EASTING	AREA
1	5999622.2	425188.7	0.01 ha
2	5999598.2	425214.1	0.01 ha
3	5999589.3	425181.5	0.01 ha
4	5999548.7	425222.5	0.01 ha
5	5999546.9	425169.3	0.01 ha
6	5999515.4	425231.9	0.01 ha
7	5999484.1	425284.3	0.01 ha
8	5999547.3	425116.8	0.01 ha
9	5999522.7	425156.7	0.01 ha
10	5999491.3	425219.2	0.01 ha
11	5999459.9	425281.7	0.01 ha
12	5999513.9	425134.3	0.01 ha
13	5999482.5	425196.8	0.01 ha
14	5999451.1	425259.3	0.01 ha
15	5999477.2	425151.6	0.01 ha
16	5999445.8	425214.1	0.01 ha
17	5999414.4	425276.6	0.01 ha
18	5999478.2	425116.3	0.01 ha
19	5999446.8	425178.9	0.01 ha
20	5999415.4	425241.4	0.01 ha
21	5999418.1	425121.1	0.01 ha
22	5999386.7	425183.7	0.01 ha
23	5999355.3	425246.2	0.01 ha
24	5999413.5	425078.0	0.01 ha
25	5999381.6	425141.6	0.01 ha
26	5999350.2	425204.2	0.01 ha
27	5999450.2	425421.1	0.01 ha
TOTAL BOREHOLE PAD AREAS =			0.27 ha

NOTE
Proposed 16.72 ha Investigative Area to contain 27 Boreholes and temporary access required for Borehole equipment.
New Cut areas required within Investigative Area :
Borehole pads = 0.27 ha
Temp. Access = 4.00 ha
Total = 4.27 ha
A Post Construction Plan will be issued to show final locations and clearing.

TRAPPER
0713T022

REM
N 1/2
Sec 21
(CROWN LAND)

MOF
OPENING
93K020 9
(DOMTAR INC.)

PROPOSED 380 x 440
1940 PSI COMPRESSOR
FACILITY KP 329

PROPOSED
380m x 440m
INVESTIGATIVE AREA
AREA = 16.72 ha
(CROWN LAND)

MOF
OPENING
93K020
(L. & M. LUMBER LTD.)

MOF
OPENING
93K020
(L. & M. LUMBER LTD.)

REFERENCE
POINT
N 5998398.6
E 424970.1

5.0 x 60 TEMP ACCESS
SEGMENT 1
(EXISTING NON-TENURE ROAD)

GUIDE
701137

- LEGEND :**
- Proposed 10 x 10 Borehole Pad
 - Investigative Area
 - Coastal GasLink Study Corridor Centerline
 - Temp. 5.0 Access
 - 20m Access Buffer
 - Existing Access
 - Non-Classified Drainage
 - PNG Grid Boundary
 - Cutblock/Opening Areas
 - Road
 - Section Boundary

NOTES :
-The proposed project is not within the Agricultural Land Reserve (ALR)
-Project to be flagged at time of construction.
-UTM Coordinates shown are NAD83 Zone 10 N
-The proposed project is within the South OGC Zone.
-Distances shown are in metres and decimals thereof.

McELHANNEY GEOMATICS
Professional Land Surveying Ltd.
8808 - 72nd Street
Fort St. John, British Columbia
Phone: (250) 787-0356, Fax: (250) 787-0310
Job : 3111-21417

BCGS 93K. 020	Data sets sourced on this map are defined in the CGP Data Matrix
EPASS# 10042324	
REVISION	DESCRIPTION
0	Issued for Use, April 25, 2013
SCALE 1:2500	
METRES	

TABLE OF AREAS REQUIRED (CROWN LAND)				
Proposed Features:	New Cut	Existing Clearing	Total	
BOREHOLE PADS (27)	0.27 ha	0.00 ha	0.27 ha	
TEMP. ACCESS (INVESTIGATIVE AREA)	4.00 ha	0.00 ha	4.00 ha	
TEMP. 5.0 ACCESS (SEGMENT)	0.03 ha	0.00 ha	0.03 ha	
TOTAL AREA	4.30 ha	0.00 ha	4.30 ha	
TOTAL CROWN LAND DISTURBANCE =	4.30 ha			
INVESTIGATIVE AREA TOTAL AREA =	16.72 ha			
10.0m ACCESS BUFFER TOTAL AREA =	0.27 ha			



COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

GEOTECHNICAL INVESTIGATION PROGRAM
PROPOSED 1940 PSI COMPRESSOR FACILITY KP 329
WITHIN

UNIT 62 BLOCK G GROUP 93-K-1
NW 1/4 Sec 22 AND REM N 1/2 Sec 21 Tp 19
RANGE 5 COAST DISTRICT

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April 25, 2013
REV 0

Route Reference: CGP_Route_RevC1
Document No. CGW4703-MCSL-G-MP-024-GeoTech-1940-KP329-Sketch-Rev0

9638322