

July 20, 2022

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

Attention: Coastal GasLink Pipeline Ltd.

RE: Determination of Application Number 100116230

Permit Holder: Coastal GasLink Pipeline Ltd.
Date of Issuance: July 20, 2022
Effective Date: July 20, 2022
Application Submission Date: July 12, 2022
Application Determination Number: 100077545

AUTHORIZATIONS and CONDITIONS

AUTHORIZATIONS

Forest Act

1. The Commission, pursuant to section 47.4 of the *Forest Act*, hereby authorizes the removal of Crown timber from the activity area under the cutting permit(s) associated with the Master Licence(s) as follows:

Master Licence to Cut No.: M02616
Cutting Permit No.: 31
Timber Mark No.: MTD635
Total New Cut: 0.84
Forest District: (DND) Nadina Natural Resource District
Region: Interior

2. The cutting permit(s) are deemed spent upon the submission of the post-construction plan or upon either the cancellation or expiry of the activities authorized under the permit.

CONDITIONS

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 permit.

Clearing/Forest Act

4. 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 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 activity area without causing damage to standing timber may be harvested.
5. The holder of the cutting permit must pay to the government, stumpage and any waste billing determined in accordance with the terms of this authorization.

6. The authorized cutting permit does not grant the permit holder the exclusive right to harvest Crown timber from the activity 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 site at the time they undertake harvesting activities.
7. All harvested Crown Timber must be marked with the cutting permit's associated Timber Mark.
8. Any waste assessments applied under the Master Licence to Cut are subject to the merchantability specifications and monetary waste billing requirements in the Provincial Logging Residue and Waste Manual specific to the region associated with the Cutting Permit authorization.
9. Stumpage will be calculated in accordance with the Interior Appraisal Manual as amended from time to time. In the current version of the Interior Appraisal Manual, stumpage will be determined in accordance with Table 6-8.

ADVISORY GUIDANCE

1. 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*.

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



Corey Scofield
Authorized Signatory
Commission Delegated Decision Maker

Copied to:

Land Agent – CWL Energy Management Ltd.
Ministry of Forests District Office - (DND) Nadina Natural Resource District

July 30, 2018

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

Attention: Coastal GasLink Pipeline Ltd.

RE: Permit Replacement for Application Determination Number 100077545, OGC Legacy #9637494

Permit Holder: Coastal GasLink Pipeline Ltd.
Permit Date of Issuance: July 31, 2016
Replacement Date of Issuance: July 30, 2018
Replacement Expiration Date: October 23, 2019
Application Determination No.: 100077545

GENERAL PERMISSIONS, AUTHORIZATIONS and CONDITIONS

1. The BC Oil and Gas Commission (the "Commission"), hereby replaces the permit and any associated authorizations to construct and operate an ancillary oil and gas activity.
2. This permit replacement is subject to the conditions of the original permit, authorizations, subsequent amendments, corrections, and any additional conditions as set out herein.
3. The permit has been replaced and will expire on October 23, 2019.

Petroleum and Natural Gas Act

4. Pursuant to Section 138(1) of the Petroleum and Natural Gas Act, the permit holder is authorized to enter, occupy and use any unoccupied Crown land located within the operating area to carry out the associated oil and gas activity authorized under this permit.

CONDITIONS

5. The rights granted by this authorization 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.
6. The Permit holder must not assign or sublicense this permit or permit any person to use or occupy the land, other than its employees, contractors, or representatives, without the Commission's written consent.
7. The Permit Holder must ensure that the area is maintained in a condition so as to minimize hazards, including but not limited to hazards associated with storage of materials and equipment.
8. The Permit Holder must ensure that the area is free of garbage, debris and unused equipment.

Permit Holder: Coastal GasLink Pipeline Ltd.

Application Submission Date: July 25, 2018

Application Determination number: 100077545

Date Issued: July 30, 2018



Jacqueline Bourke
Authorized Signatory
Commission Delegated Decision Maker

pc: Land Agent – Roy Northern Land Service Ltd.
OGC, Compliance and enforcement

Commission File: 9637494

July 28, 2016

Coastal Gaslink Pipeline Ltd.
450 -1st Street SW
Calgary, Alberta T2P 5H1;

Attention: Surface Land Administrator

Re: Correction of a Helipad located within Units 72 and 73-D/93-L-4, Units 91 and 92-D/93-L-4; and Units 93 and 94-F/93-L-4

The Oil and Gas Commission hereby corrects the Permit and Authorizations Associated with the Permit containing 0.88 hectares, as shown on construction plan

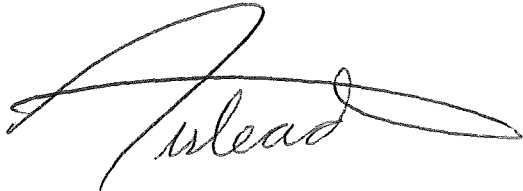
CGE4703-MCSL-G-MP-116-001-HeliSite Nadine Kalum PC Sketch-Rev0, page 1 of 4, revision 0, dated July 17, 2013
CGE4703-MCSL-G-MP-116-002-HeliSite Nadine Kalum PC Sketch-Rev0, page 2 of 4, revision 0, dated July 17, 2013
CGE4703-MCSL-G-MP-116-003-HeliSite Nadine Kalum PC Sketch-Rev0, page 3 of 4, revision 0, dated July 17, 2013
CGE4703-MCSL-G-MP-116-004-HeliSite Nadine Kalum PC Sketch-Rev0, page 4 of 4, revision 0, dated July 17, 2013

as follows:

- To replace Condition 2. To read:
 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 email OGC.ExternalNotifications@bcogc.ca.
- To replace condition 4 (3) to read:
 - (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 area before the oil and gas activity was begun, and
 - (b) stabilize the soil if it is highly susceptible to erosion.

The permit holder must comply with all conditions in the original permission and any additional conditions as noted above.

This letter forms an integral part of your Permit and should be attached thereto.

A handwritten signature in black ink, appearing to read 'Istead', with a large, sweeping flourish above the name.

Ashley Istead
Natural Resource Officer

cc: Roy Northern Land Service Ltd.
OGC File: 9637494
OGC First Nations (OWS, STN, WFN)



July 14, 2016

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

Attention: Katherine Sheriff

RE: Helipad within Units 72 and 73-D/93-L-4, Units 91 and 92-D/93-L-4; Units 30-F/93-L-4; and Units 93 and 94-F/93-L-4

Date of Issuance: July 31, 2016
Commission No.: 9637494

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

CGE4703-MCSL-G-MP-116-001-HeliSite Nadine Kalum PC Sketch-Rev0, page 1 of 4, revision 0, dated July 17, 2013
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CGE4703-MCSL-G-MP-116-002-HeliSite Nadine Kalum PC Sketch-Rev0, page 2 of 4, revision 0, dated July 17, 2013
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CGE4703-MCSL-G-MP-116-003-HeliSite Nadine Kalum PC Sketch-Rev0, page 3 of 4, revision 0, dated July 17, 2013
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CGE4703-MCSL-G-MP-116-004-HeliSite Nadine Kalum PC Sketch-Rev0, page 4 of 4, revision 0, dated July 17, 2013
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(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 0.88 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.: 9637494
Worksafe BC
OGC First Nations: OWS, STN, WFN



March 4, 2015

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

Attention: Coastal GasLink Pipeline Ltd.

RE: Temporary Occupation of Crown Land - Helipad Permit
Helipad Location: Units 72 and 73-D/93-L-4; Units 91 and 92-D/93-L-4; Units 30-F/93-L-4; and Units 93 and 94-F/93-L-4
Date of Issuance: March 4, 2015
Commission File No: 9637494

AUTHORIZATIONS

Temporary Permit under section 14 of the *Land Act*

1. The BC Oil and Gas Commission, hereby authorizes the holder of Permit number 9637494, to temporarily occupy and use Crown land for the purpose of constructing and operating a Helipad Permit, under Authorization Number 947943, 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-116-001-HeliSite Nadine Kalum PC Sketch-Rev0, Page 1 of 4, Revision 0 dated July 17, 2013
CGW4703-MCSL-G-MP-116-002-HeliSite Nadine Kalum PC Sketch-Rev0, Page 2 of 4, Revision 0 dated July 17, 2013
CGW4703-MCSL-G-MP-116-003-HeliSite Nadine Kalum PC Sketch-Rev0, Page 3 of 4, Revision 0 dated July 17, 2013
CGW4703-MCSL-G-MP-116-004-HeliSite Nadine Kalum PC Sketch-Rev0, Page 4 of 4, Revision 0 dated July 17, 2013

- b. The permit expires on July 31, 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.

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. An Archaeological Impact Assessment (AIA) 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 Archaeology Branch of the Ministry of Forestry, Lands and Natural Resource Operations (Archaeology Branch) and the Commission and all mitigation measures must be approved by the Archaeology Branch 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 Archaeology Branch and the Commission as soon as possible as per the Archaeology Process Guidelines.

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.
4. 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.
 5. Ground disturbance within the Site is not authorized.
 6. The permit holder must notify the Carrier Sekani Tribal Council prior to project commencement.
 7. The Permit holder must notify the Office of the Wet'suwet'en prior to project commencement.
 8. The Permit holder must notify the Skin Tyee Nation prior to project commencement.
 9. The Permit holder must notify the Wet'suwet'en First Nation prior to project commencement.



Justin Anderson
Authorized Signatory
Commission Delegated Decision Maker

cc: Roy Northern
OGC File: 9637494
WorkSafe BC

LEGEND :

 Helicopter Landing Site	 Coastal GasLink Study Corridor Centerline
 Helicopter Landing Site Placement Zone	 Non Classified Drainage
 PNG Grid Boundary	 Creek/ River

Caribou Range : None
Coal Licence : None
Community Forest : None
Guide / Outfitter : 601071
Mineral Reserve : None
Range Tenure : None
Trapper : 609T033
Tree Farm Licence : TFL41
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None

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 9 N.
- The proposed project is within the South OGC Zone.
- Distances shown are in metres and decimals thereof.

McELHANNEY
Professional Land Surveying Ltd.
8808 - 72nd Street
Fort St. John, British Columbia
Phone:(250)787-0356, Fax:(250)787-0310
Job : 3111-21236

BCGS 93L . 001 Data sets sourced on this map are defined in the CGP Data Matrix

EPASS#10040740

REVISION	DESCRIPTION
0	Issued for Use, November 26, 2012

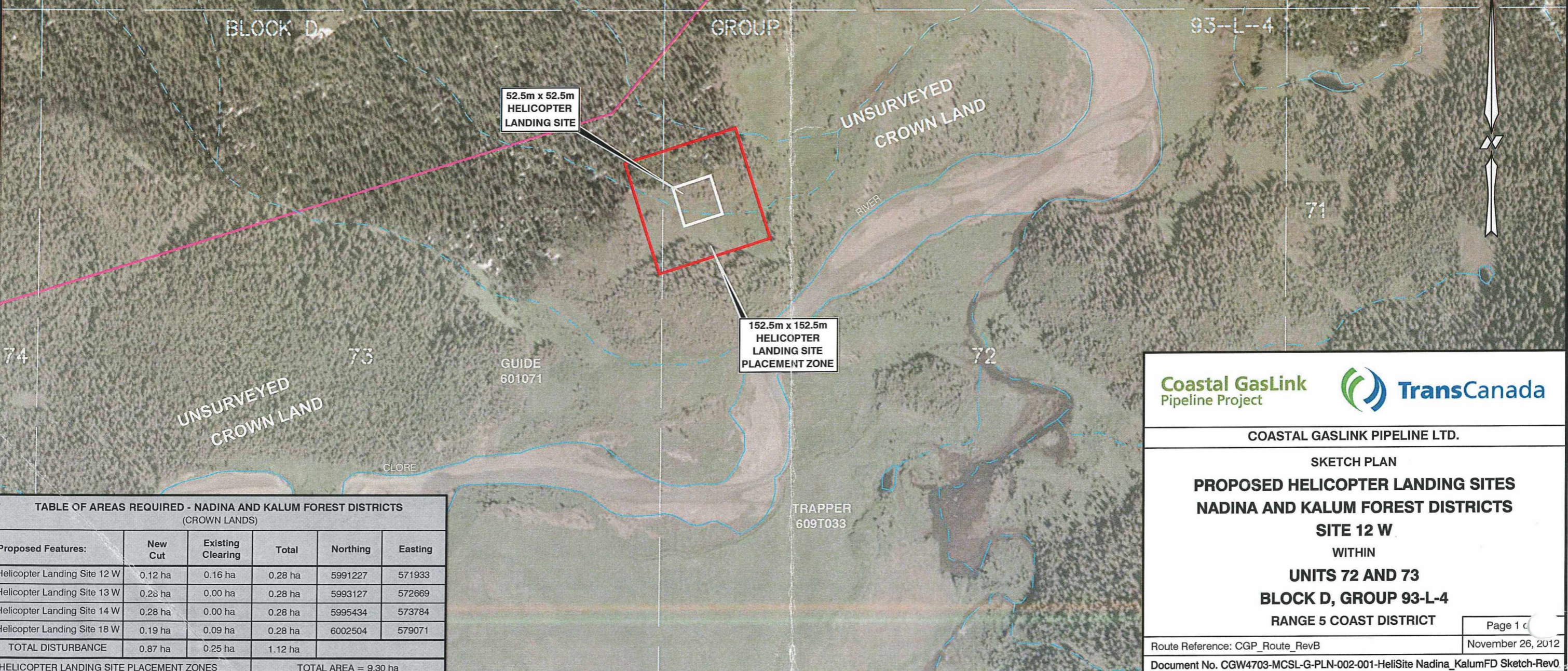
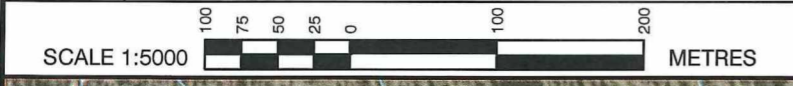



TABLE OF AREAS REQUIRED - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

Proposed Features:	New Cut	Existing Clearing	Total	Northing	Easting
Helicopter Landing Site 12 W	0.12 ha	0.16 ha	0.28 ha	5991227	571933
Helicopter Landing Site 13 W	0.28 ha	0.00 ha	0.28 ha	5993127	572669
Helicopter Landing Site 14 W	0.28 ha	0.00 ha	0.28 ha	5995434	573784
Helicopter Landing Site 18 W	0.19 ha	0.09 ha	0.28 ha	6002504	579071
TOTAL DISTURBANCE	0.87 ha	0.25 ha	1.12 ha		
HELICOPTER LANDING SITE PLACEMENT ZONES			TOTAL AREA = 9.30 ha		

Coastal GasLink Pipeline Project 

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN
**PROPOSED HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 12 W
WITHIN
UNITS 72 AND 73
BLOCK D, GROUP 93-L-4
RANGE 5 COAST DISTRICT**

Page 1 of 1

Route Reference: CGP_Route_RevB November 26, 2012
Document No. CGW4703-MCSL-G-PLN-002-001-HeliSite Nadina_KalumFD Sketch-Rev0

9637494

LEGEND :

	Helicopter Landing Site		Coastal GasLink Study Corridor Centerline
	Helicopter Landing Site Placement Zone		Non Classified Drainage
	PNG Grid Boundary		Creek/ River

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 9 N.
- The proposed project is within the South OGC Zone.
- Distances shown are in metres and decimals thereof.

McELHANNEY Professional Land Surveying Ltd.
 8808 - 72nd Street
 Fort St. John, British Columbia
 Phone:(250)787-0356, Fax:(250)787-0310
 Job : 3111-21236

Caribou Range : None
Coal Licence : None
Community Forest : None
Guide / Outfitter : 601071
Mineral Reserve : None
Range Tenure : None
Trapper : 609T033
Tree Farm Licence : TFL41
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None

BCGS 93L . 001 Data sets sourced on this map are defined in the CGP Data Matrix

EPASS#10040740

REVISION	DESCRIPTION
0	Issued for Use, November 26, 2012

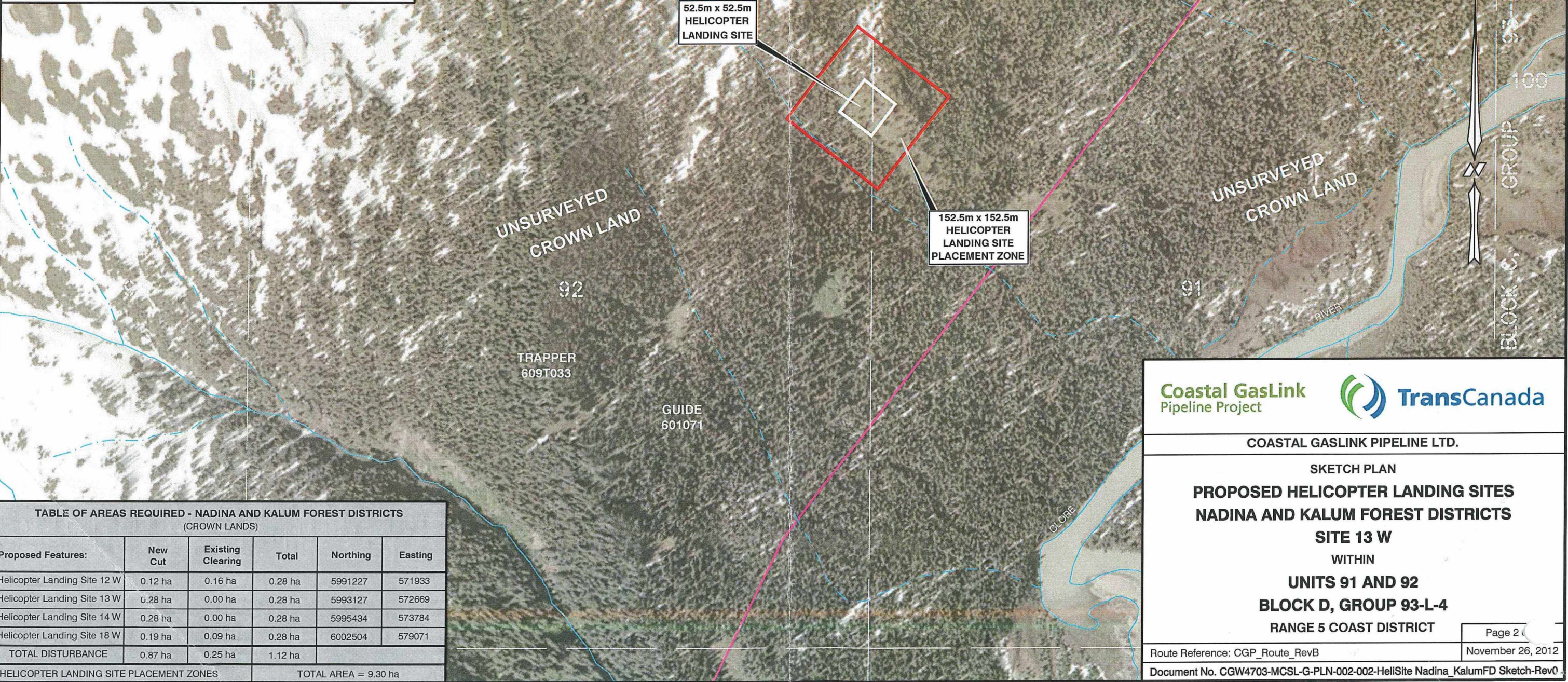


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TOTAL DISTURBANCE	0.87 ha	0.25 ha	1.12 ha		
HELICOPTER LANDING SITE PLACEMENT ZONES	TOTAL AREA = 9.30 ha				



COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN
PROPOSED HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 13 W
 WITHIN
UNITS 91 AND 92
BLOCK D, GROUP 93-L-4
RANGE 5 COAST DISTRICT

9637494

LEGEND :

	Helicopter Landing Site		Coastal GasLink Study Corridor Centerline
	Helicopter Landing Site Placement Zone		Non Classified Drainage
	Ministry of Forests Opening		Creek/ River
	PNG Grid 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 9 N.
- The proposed project is within the South OGC Zone.
- Distances shown are in metres and decimals thereof.

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 Phone:(250)787-0356, Fax:(250)787-0310
 Job : 3111-21236

Caribou Range : None
Coal Licence : None
Community Forest : None
Guide / Outfitter : 601071
Mineral Reserve : None
Range Tenure : None
Trapper : 609T033
Tree Farm Licence : TFL41
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None

BCGS 93L . 011 | Data sets sourced on this map are defined in the CGP Data Matrix

EPASS# 10040740

REVISION	DESCRIPTION
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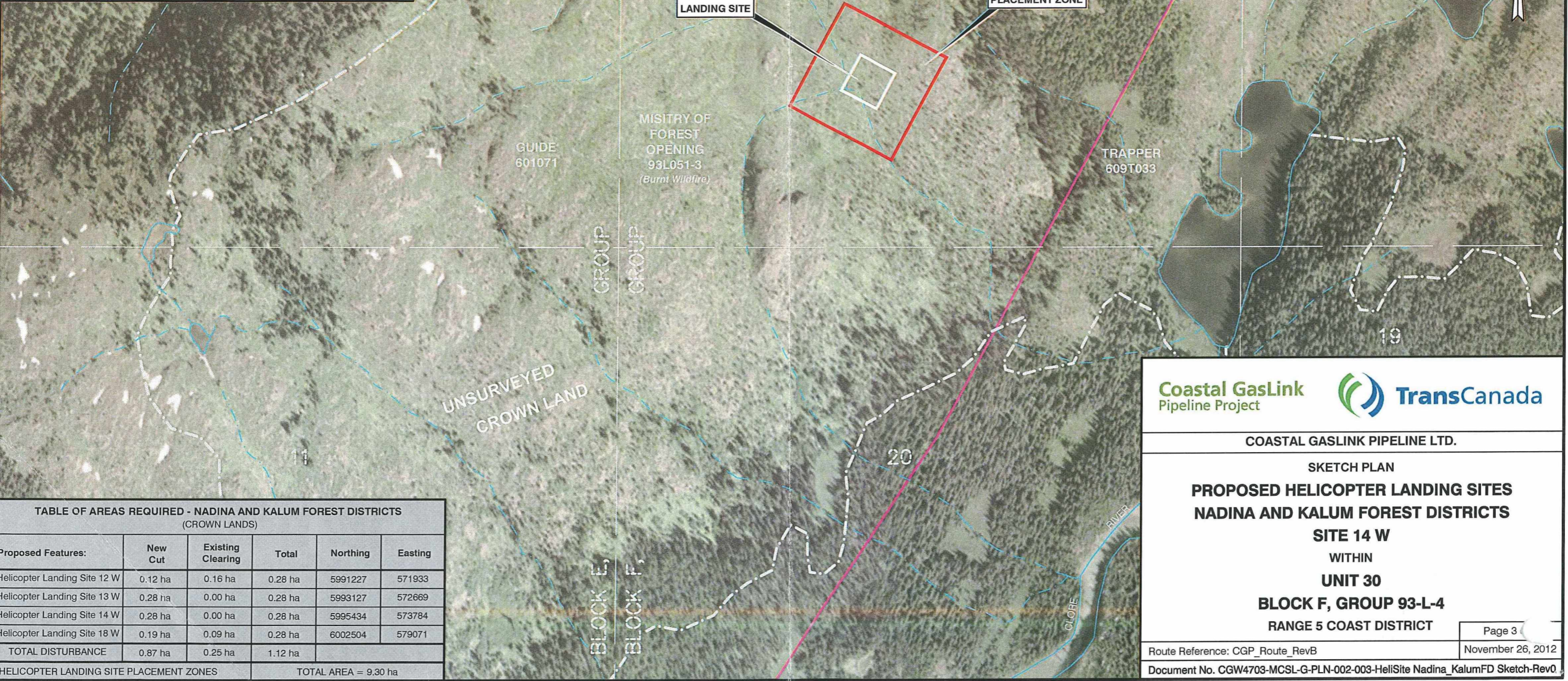


TABLE OF AREAS REQUIRED - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

Proposed Features:	New Cut	Existing Clearing	Total	Northing	Easting
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TOTAL DISTURBANCE	0.87 ha	0.25 ha	1.12 ha		
HELICOPTER LANDING SITE PLACEMENT ZONES	TOTAL AREA = 9,30 ha				

Coastal GasLink Pipeline Project

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

PROPOSED HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 14 W
 WITHIN
UNIT 30
BLOCK F, GROUP 93-L-4
RANGE 5 COAST DISTRICT

Route Reference: CGP_Route_RevB | November 26, 2012
 Document No. CGW4703-MCSL-G-PLN-002-003-HeliSite Nadina_KalumFD Sketch-Rev0

9637494

LEGEND :

- Helicopter Landing Site
- Helicopter Landing Site Placement Zone
- PNG Grid Boundary
- Non Classified Drainage
- Coastal GasLink Study Corridor Centerline
- Creek/ River
- Proposed Wildlife Habitat Area

Caribou Range : None
 Coal Licence : None
 Community Forest : None
 Guide / Outfitter : 601044
 Mineral Reserve : None
 Range Tenure : RAN077588
 Trapper : 609T033
 Tree Farm Licence : None
 Ungulate Winter Ranges : None
 Wildlife Habitat Areas : 42120
 Wildlife Tree Retention Area : None
 Wood Lot : None

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 9 N.
- The proposed project is within the South OGC Zone.
- Distances shown are in metres and decimals thereof.

McELHANNEY
 Professional Land Surveying Ltd.
 8808 - 72nd Street
 Fort St. John, British Columbia
 Phone:(250)787-0356, Fax:(250)787-0310
 Job : 3111-21236

BCGS 93L . 012 Data sets sourced on this map are defined in the CGP Data Matrix

EPASS# 10040740

REVISION	DESCRIPTION
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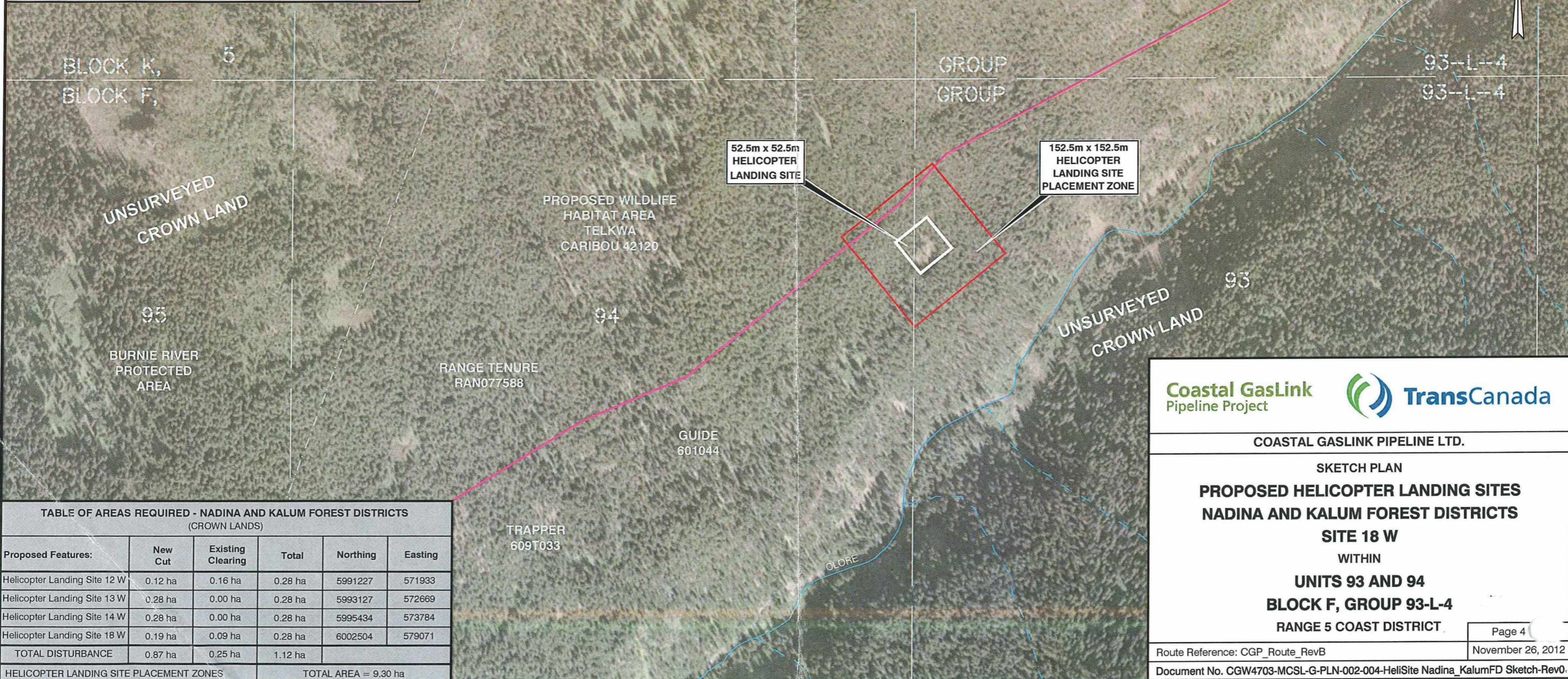
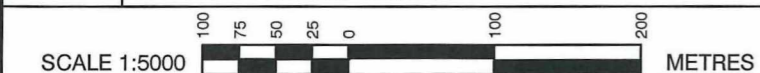


TABLE OF AREAS REQUIRED - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

Proposed Features:	New Cut	Existing Clearing	Total	Northing	Easting
Helicopter Landing Site 12 W	0.12 ha	0.16 ha	0.28 ha	5991227	571933
Helicopter Landing Site 13 W	0.28 ha	0.00 ha	0.28 ha	5993127	572669
Helicopter Landing Site 14 W	0.28 ha	0.00 ha	0.28 ha	5995434	573784
Helicopter Landing Site 18 W	0.19 ha	0.09 ha	0.28 ha	6002504	579071
TOTAL DISTURBANCE	0.87 ha	0.25 ha	1.12 ha		
HELICOPTER LANDING SITE PLACEMENT ZONES			TOTAL AREA = 9.30 ha		

Coastal GasLink Pipeline Project

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

PROPOSED HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 18 W
 WITHIN
UNITS 93 AND 94
BLOCK F, GROUP 93-L-4
RANGE 5 COAST DISTRICT.

Page 4

Route Reference: CGP_Route_RevB November 26, 2012

Document No. CGW4703-MCSL-G-PLN-002-004-HeliSite Nadina_KalumFD Sketch-Rev0.

9637494

LEGEND :

	Temporary Crown Land Disturbance Footprint		Non Classified Drainage
	Helicopter Landing Site Placement Zone		Creek/ River
	PNG Grid Boundary		Approximate Centre Landing Site

NOTES :

- The proposed project is not within the Agricultural Land Reserve (ALR)
- UTM Coordinates shown are NAD83 Zone 9 N.
- The proposed project is within the South OGC Zone.
- Distances shown are in metres and decimals thereof.

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

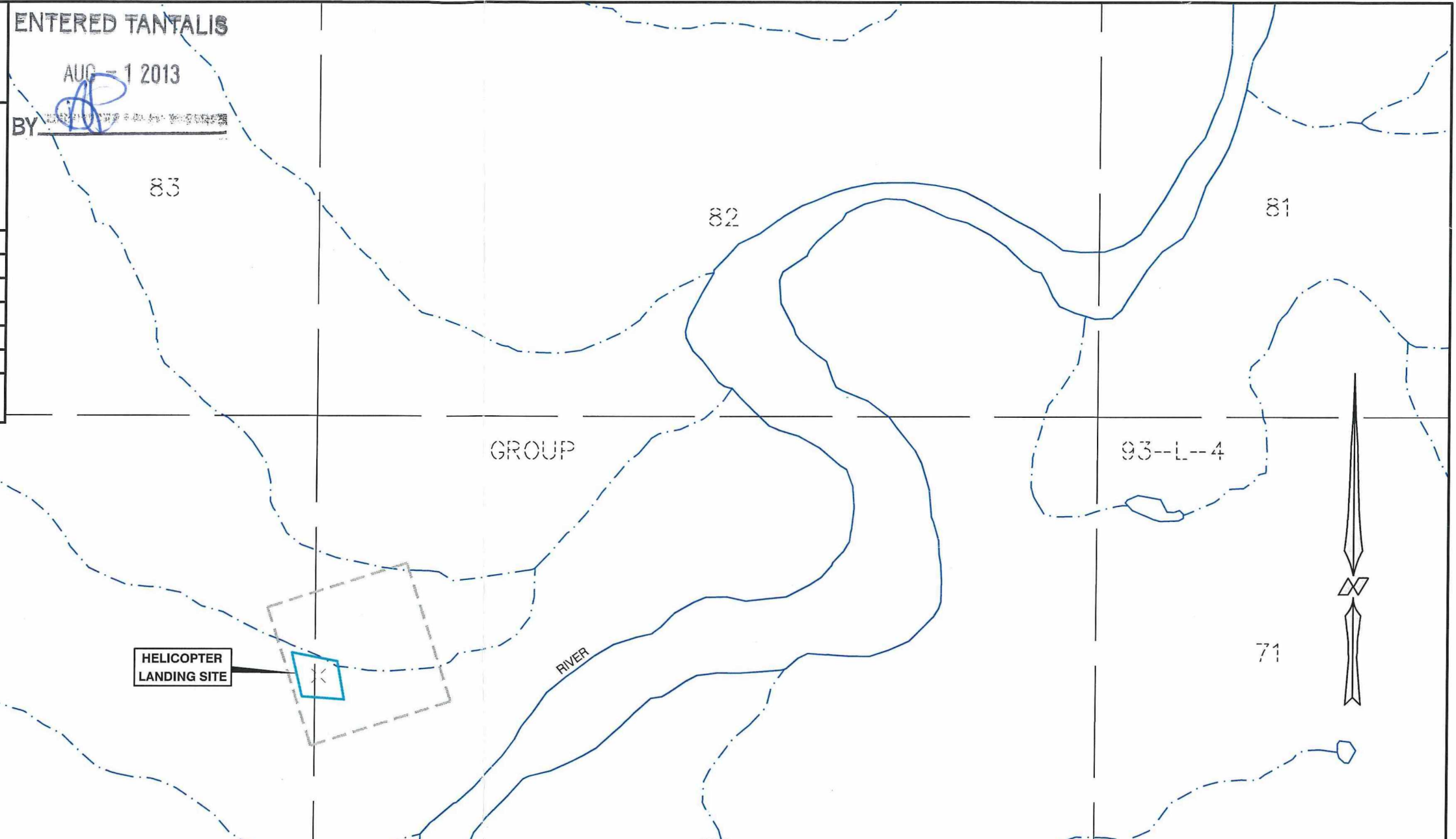
OGC FILE No. 9637494 BCGS 93L . 001

CONTACT EMAIL: katherine_sheriff@transcanada.com

POST CONSTRUCTION EPASS #10043245

Data sets sourced on this map are defined in the CGP Data Matrix

REVISION	DESCRIPTION
0	Issued for Use, July 17, 2013



BLOCK D,
GROUP

UNSURVEYED
CROWN LAND

CLORE

RIVER

TABLE OF AREAS - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

Proposed Feature:	Approved	Constructed	Perm/Temp	Northing	Easting
Helicopter Landing Site 12 W	- ha	0.19 ha	Temp.	5991202	571892
Helicopter Landing Site 13 W	- ha	0.25 ha	Temp.	5993172	572663
Helicopter Landing Site 14 W	- ha	0.21 ha	Temp.	5995456	573826
Helicopter Landing Site 18 W	- ha	0.23 ha	Temp.	6002523	579070
TOTAL AREAS	✓ 1.12 ha	0.88 ha			

NOTE:
DISTURBANCE FOOTPRINT DETAILS ARE BASED ON CLIENT INFORMATION. NO POST CONSTRUCTION SURVEY WAS COMPLETED BY McELHANNEY.

Coastal GasLink Pipeline Project **TransCanada**

COASTAL GASLINK PIPELINE LTD.

POST CONSTRUCTION PLAN
HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 12 W
WITHIN
UNITS 72 AND 73
BLOCK D, GROUP 93-L-4
RANGE 5 COAST DISTRICT

Route Reference: Page 1 of 4
July 17, 2013

Document No. CGW4703-MCSL-G-MP-116-001-HeliSite Nadina Kalum PC Sketch-Rev0

LEGEND :

	Temporary Crown Land Disturbance Footprint		Non Classified Drainage
	Helicopter Landing Site Placement Zone		Creek/ River
	PNG Grid Boundary		Approximate Centre Landing Site

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POST CONSTRUCTION EPASS #10043245

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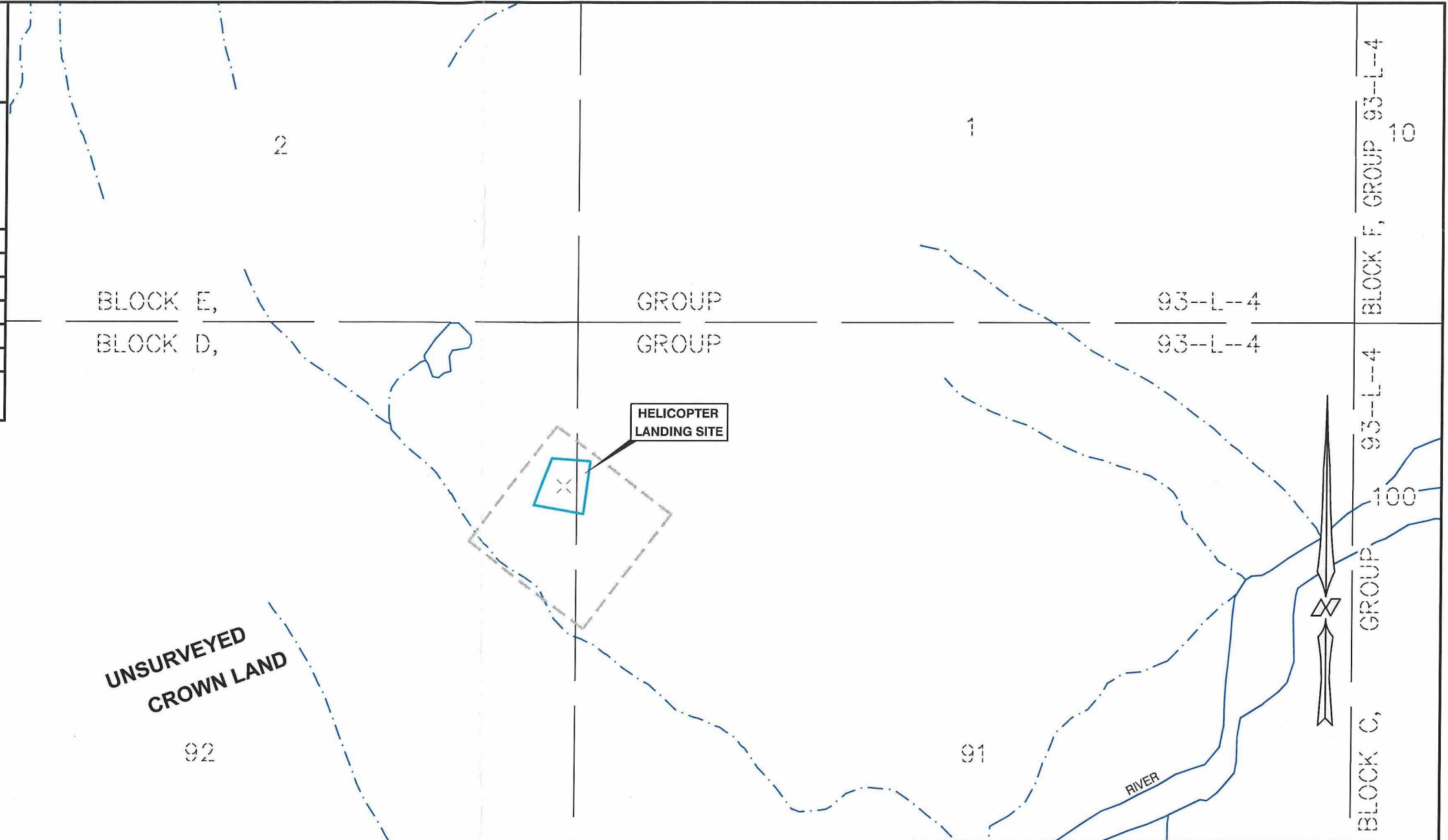


TABLE OF AREAS - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

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TOTAL AREAS	1.12 ha	0.88 ha			

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Coastal GasLink Pipeline Project **TransCanada**

COASTAL GASLINK PIPELINE LTD.

POST CONSTRUCTION PLAN
HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 13 W
WITHIN
UNITS 91 AND 92
BLOCK D, GROUP 93-L-4
RANGE 5 COAST DISTRICT

Route Reference: July 17, 2013

Document No. CGW4703-MCSL-G-MP-116-002-HeliSite Nadina Kalum PC Sketch-Rev0

BLOCK F, GROUP 93--L--4
10
93--L--4
93--L--4
100
GROUP
BLOCK C, GROUP

LEGEND :

	Temporary Crown Land Disturbance Footprint		Non Classified Drainage
	Helicopter Landing Site Placement Zone		Creek/ River
	Ministry of Forests Opening		Approximate Centre Landing Site
	PNG Grid Boundary		

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OGC FILE No. 9637494 BCGS 93L . 011

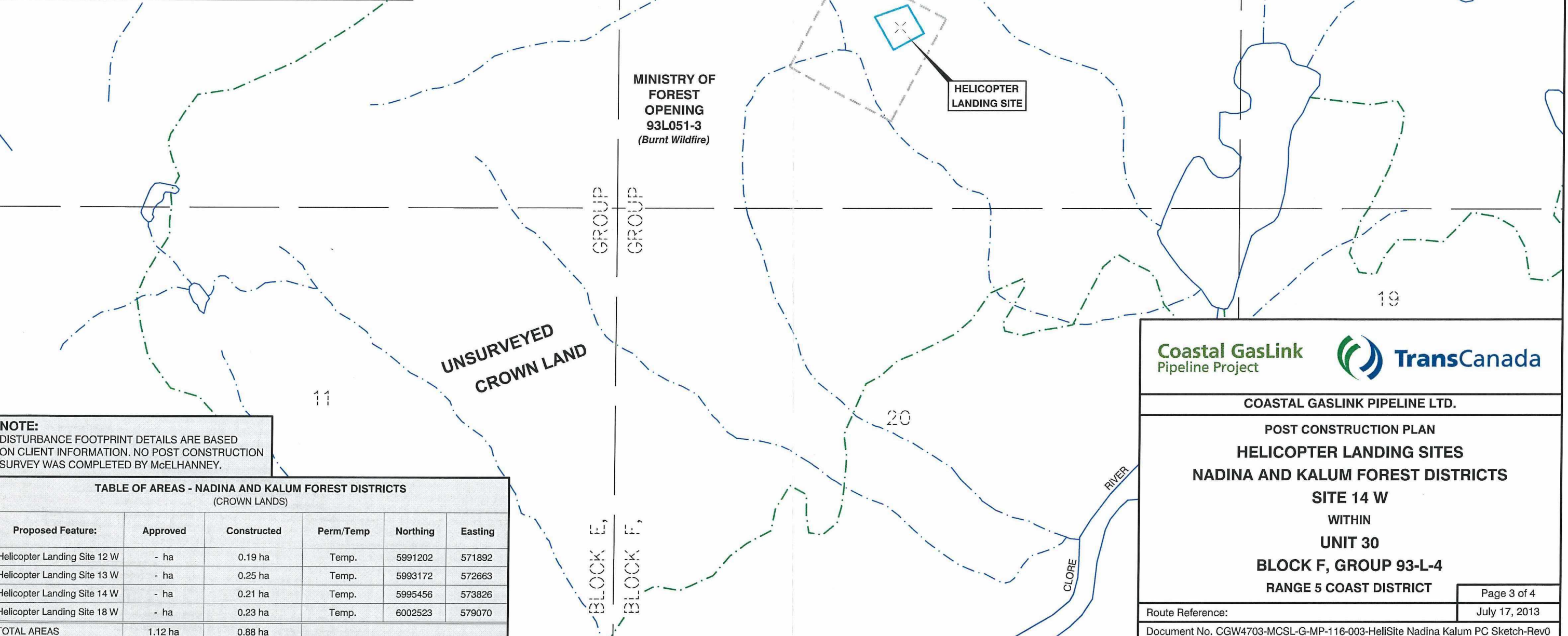
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POST CONSTRUCTION EPASS #10043245

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REVISION	DESCRIPTION
0	Issued for Use, July 17, 2013

SCALE 1:5000 METRES



NOTE:
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TABLE OF AREAS - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

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Coastal GasLink Pipeline Project

COASTAL GASLINK PIPELINE LTD.

POST CONSTRUCTION PLAN
HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 14 W
WITHIN
UNIT 30
BLOCK F, GROUP 93-L-4
RANGE 5 COAST DISTRICT

Route Reference: July 17, 2013

Document No. CGW4703-MCSL-G-MP-116-003-HeliSite Nadina Kalum PC Sketch-Rev0

LEGEND :

- Temporary Crown Land Disturbance Footprint
- Helicopter Landing Site Placement Zone
- PNG Grid Boundary
- Creek/ River
- Non Classified Drainage
- Proposed Wildlife Habitat Area
- Approximate Centre Landing Site

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OGC FILE No. 9637494 BCGS 93L . 012

CONTACT EMAIL: katherine_sheriff@transcanada.com

POST CONSTRUCTION EPASS #10043245

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REVISION	DESCRIPTION
0	Issued for Use, July 17, 2013

SCALE 1:5000 METRES

BLOCK K, 5
 BLOCK F, 5

UNSURVEYED CROWN LAND

95

BURNIE RIVER PROTECTED AREA

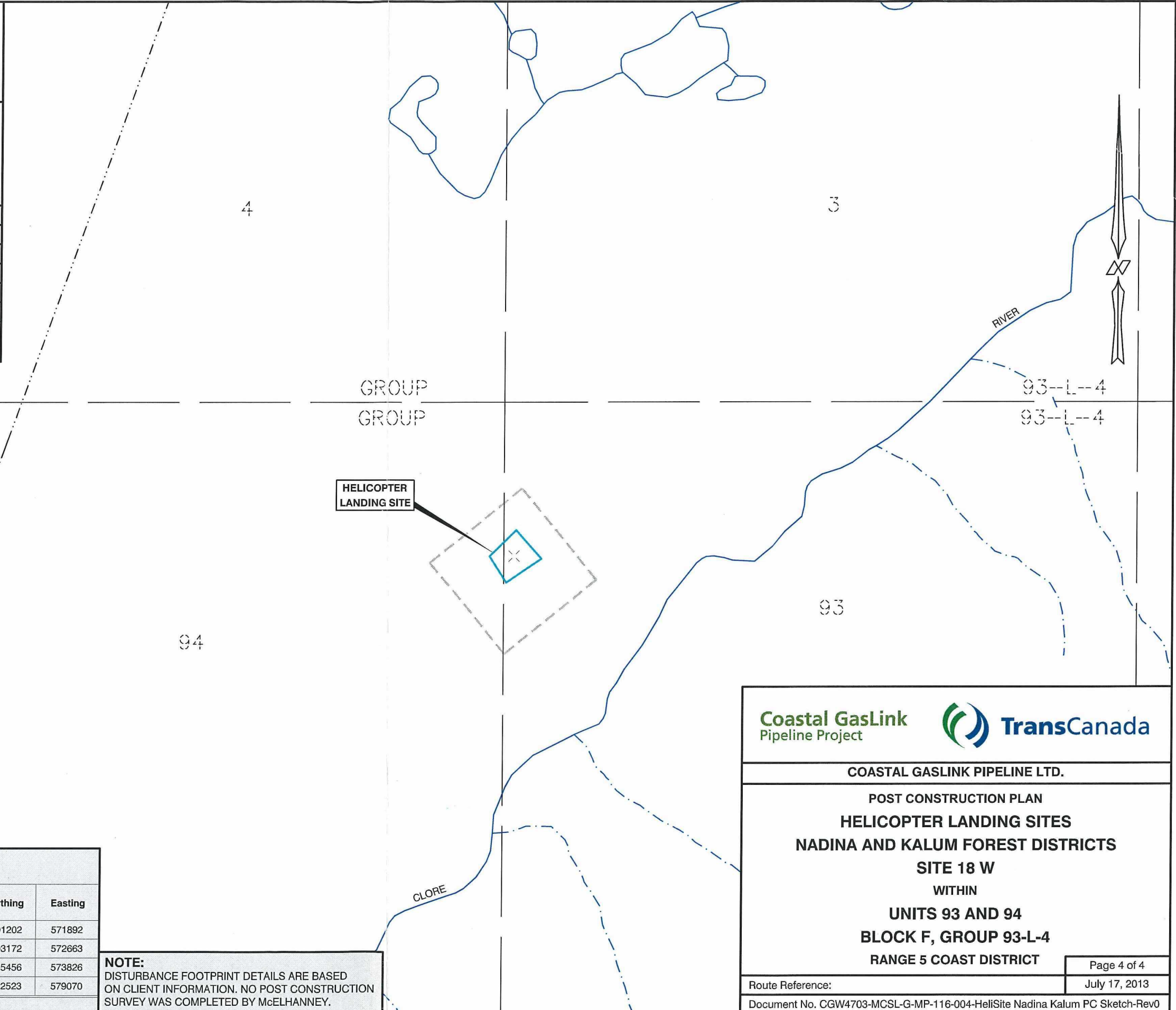


TABLE OF AREAS - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

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TOTAL AREAS	1.12 ha	0.88 ha			

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Coastal GasLink Pipeline Project

COASTAL GASLINK PIPELINE LTD.

POST CONSTRUCTION PLAN
HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 18 W
 WITHIN
UNITS 93 AND 94
BLOCK F, GROUP 93-L-4
RANGE 5 COAST DISTRICT

Route Reference: Page 4 of 4
July 17, 2013

Document No. CGW4703-MCSL-G-MP-116-004-HeliSite Nadina Kalum PC Sketch-Rev0



OGC File: 9637494

April 5, 2013

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

Attention: Surface Land Administrator

Re: Helipad Permit- Section 14 over Crown Land, Range 5 Coast District
within units 91 and 92, block D, 93-L-4.

Date of Issuance: April 5, 2013
Commission File No: 9637494
Applicant File No: 120496

PERMISSIONS

The Oil and Gas Commission ("Commission") hereby authorizes the holder of permit number 9637494, 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 "Helicopter Landing Site Placement Zone" in the attached sketch plans Document No: CGE4703-MSCL-G-PLN-002-001-HeliSite_Nadina_KalumFD Sketch-Rev0, CGE4703-MSCL-G-PLN-002-002-HeliSite_Nadina_KalumFD Sketch-Rev0, CGE4703-MSCL-G-PLN-002-003-HeliSite_Nadina_KalumFD Sketch-Rev0, CGE4703-MSCL-G-PLN-002-004-HeliSite_Nadina_KalumFD Sketch-Rev0, dated November 26, 2012 as submitted to the Commission in the permit application dated December 13, 2012 (hereinafter referenced together as the "Site"), to conduct appraisals, inspections, analyses, inventories, surveys or other investigations under Authorization Number 939922, 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 1.12Ha.
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 ("AIA") must be conducted for the proposed development area prior to conducting activities under this Permit.
14. If an archaeological site is recorded as a result of the AIA referenced in condition 13, above: an AIA report must be submitted immediately to the Oil and Gas Commission and all mitigation measures must be approved by the Commission's archaeology staff prior to conducting activities under this Permit; and all activities conducted under this Permit must be completed in accordance with the approved mitigation measures.
15. If no archaeological site is recorded during the AIA referenced in condition 14, above, an AIA report must be submitted to the Commission as soon as possible as per the Archaeology Process Guidelines.

16. In the event that:

- a. a heritage site, heritage object or any other feature, place or material that may contain historical or archaeological value as defined by the Heritage Conservation Act [RSBC 1996] Chapter 187; or
- b. any other cultural heritage material or feature

is encountered while conducting activities under this Permit, the permit holder must cease immediately disturbance activities and immediately notify 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 M02344, Kalum Forest District, and Cutting Permit No. 2, under Master License to Cut number M02343, Nadina 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 Permits expires 2 years from the date of issuance of the Investigative Permit or the revised date should this permits be extended.
2. This Cutting Permits are subject to the terms and conditions in their respective Master Licence to Cut.
3. All harvested Crown timber cut under this authorization within the Kalum Forest District must be marked with Timber Mark Number MSZ 824.
4. All harvested Crown timber cut under this authorization within the Nadina Forest District must be marked with Timber Mark Number MSZ 825.
5. The felling, bucking and utilization specifications in the respective Master License to Cut documents apply to the Cutting Permits.
6. All Crown timber cut under the authority of this cutting permit must remain on Site and must be cut into pieces of lengths that are no greater than 3 metres and laid flat on the ground.
7. In accordance with the Master Licence to Cut documents 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. Prior to harvesting, any clearing authorized by the Cutting Permits must be clearly defined on the ground by ribboning or blazing.
9. This permit authorizes a maximum total new cut area of 1.12Ha within the Site.

ADDITIONAL CONDITIONS

1. Ground disturbance within the Site is not authorized.
2. The Commission recommends the Permit holder notify the Carrier Sekani Tribal Council prior to project commencement.
3. The Commission recommends the Permit holder notify the Office of the Wet'suwet'en prior to project commencement.
4. The Commission recommends the Permit holder notify the Skin Tye Nation prior to project commencement.
5. The Commission recommends the Permit holder notify the Wet'suwet'en First Nation prior to project commencement.

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



Viva Wolf
Operations Manager

pc: FLNRO – Kalum, Nadina

pc: Carrier Sekani Tribal Council, Office of the Wet'suwet'en, Skin Tye Nation, Wet'suwet'en
First Nation

LEGEND :

- Helicopter Landing Site
- Helicopter Landing Site Placement Zone
- Coastal GasLink Study Corridor Centerline
- Non Classified Drainage
- Creek/ River
- PNG Grid Boundary

NOTES :

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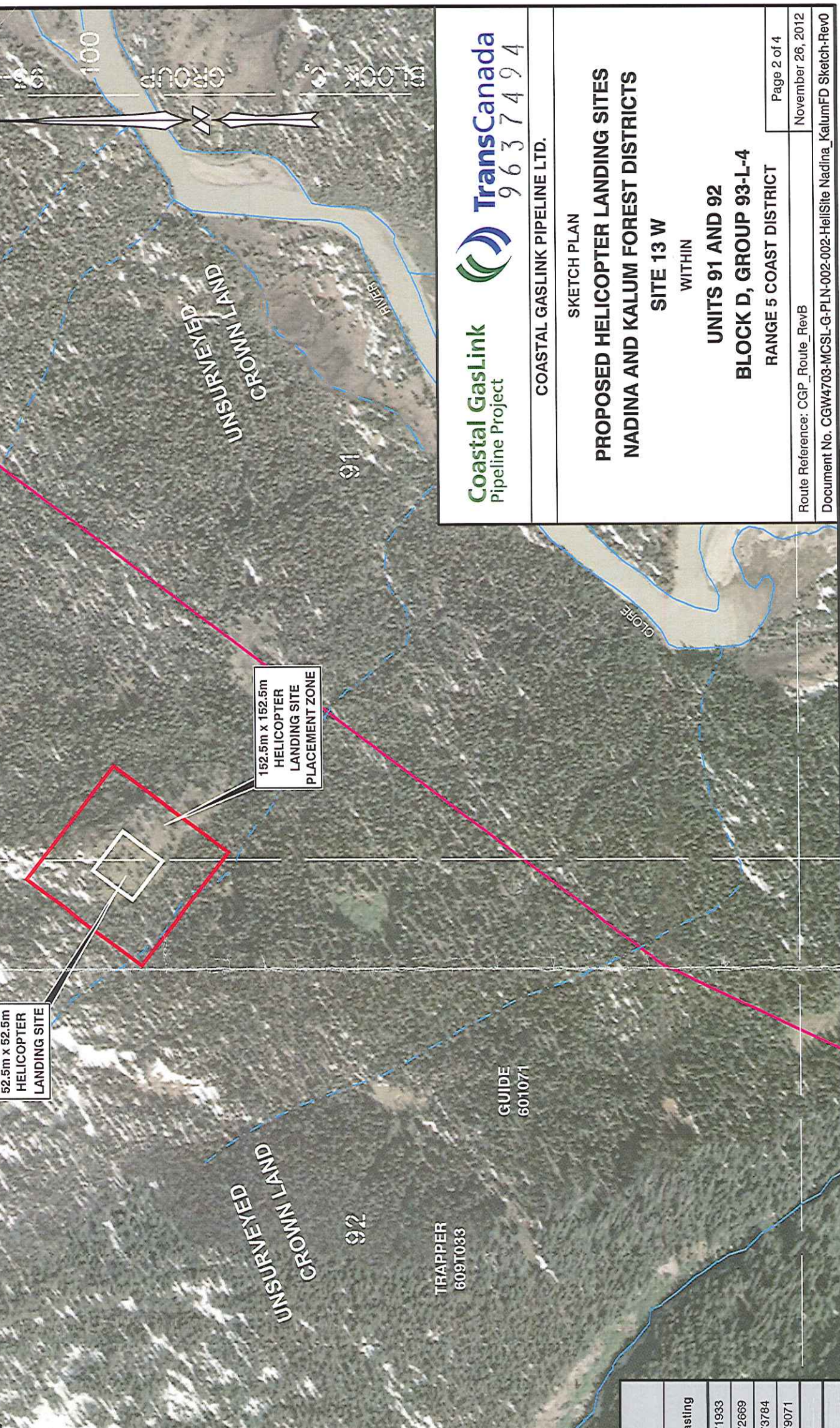
MCELHANNNEY
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 Job : 311-21236

BCGS 93L . 001 | Data sets sourced on this map are defined in the CGP Data Matrix

REVISION	DESCRIPTION
0	Issued for Use, November 26, 2012

SCALE 1:5000

METRES



Caribou Range : None
Coal Licence : None
Community Forest : None
Guide / Outfilter : 601071
Mineral Reserve : None
Range Tenure : None
Trapper : 609T033
Tree Farm Licence : TFL41
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None

Coastal GasLink
Pipeline Project

TransCanada
9637494

COASTAL GASLINK PIPELINE LTD.

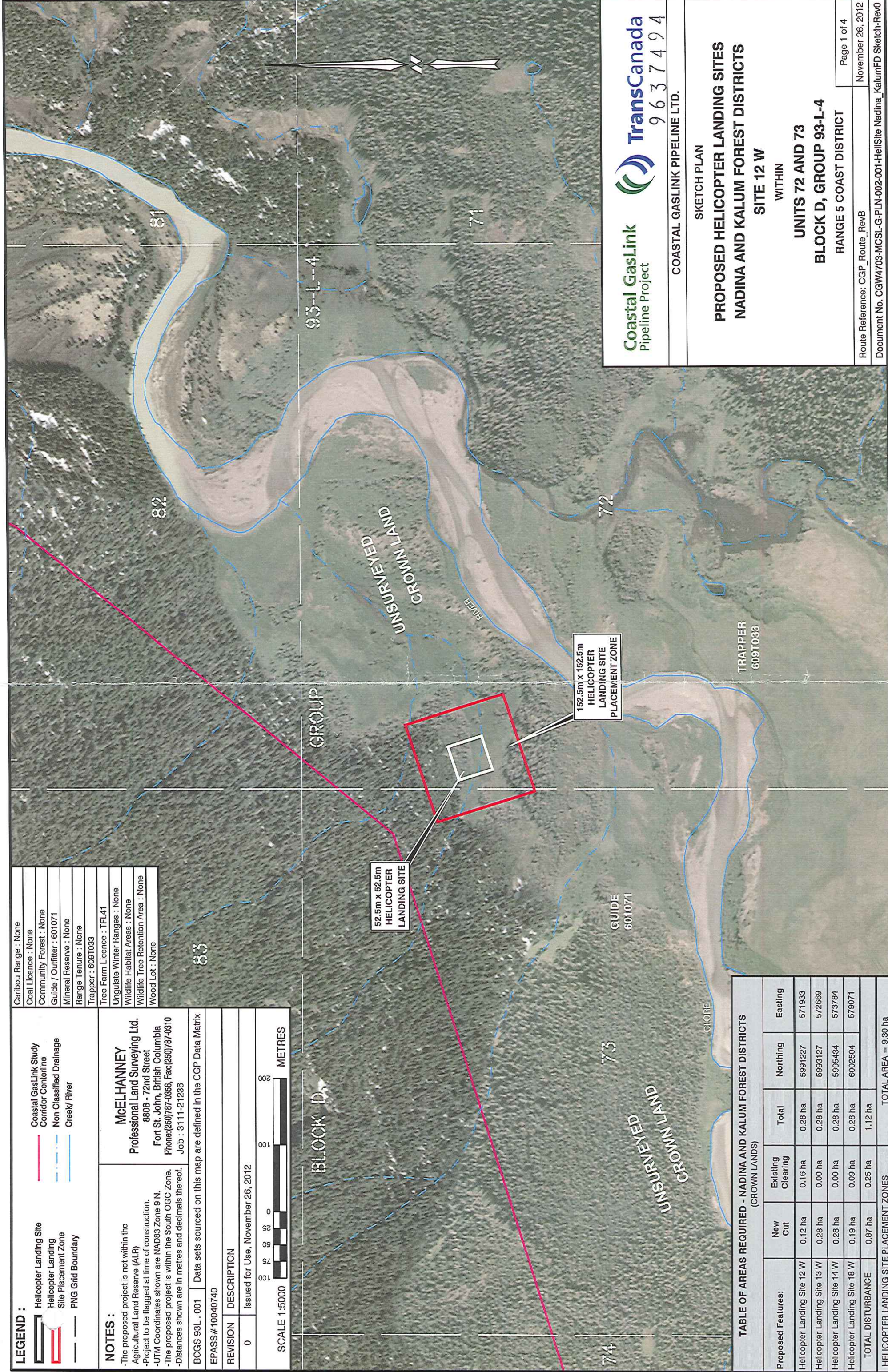
SKETCH PLAN

PROPOSED HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 13 W
 WITHIN
UNITS 91 AND 92
BLOCK D, GROUP 93-L-4
 RANGE 5 COAST DISTRICT

Route Reference: CGP_Route_RevB
 November 26, 2012
 Page 2 of 4
 Document No. CGW4703-MCSL-G-PLN-002-HeliSite Nadina_KalumFD Sketch-Rev0

TABLE OF AREAS REQUIRED - NADINA AND KALUM FOREST DISTRICTS
(CROWN LANDS)

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TOTAL DISTURBANCE	0.87 ha	0.25 ha	1.12 ha		
HELICOPTER LANDING SITE PLACEMENT ZONES					TOTAL AREA = 9.30 ha



Caribou Range : None
Coal Licence : None
Community Forest : None
Guide / Outfilter : 601071
Mineral Reserve : None
Range Tenure : None
Trapper : 609T033
Tree Farm Licence : TFL41
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None

LEGEND :

- Helicopter Landing Site
- Helicopter Landing Site Placement Zone
- Coastal GasLink Study Corridor Centerline
- Non Classified Drainage
- Creek/ River
- PNG Grid Boundary

NOTES :

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EPASS# 10040740	
REVISION	DESCRIPTION
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SCALE 1:5000

METRES

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Pipeline Project

TransCanada
9 6 3 7 4 9 4

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SKETCH PLAN

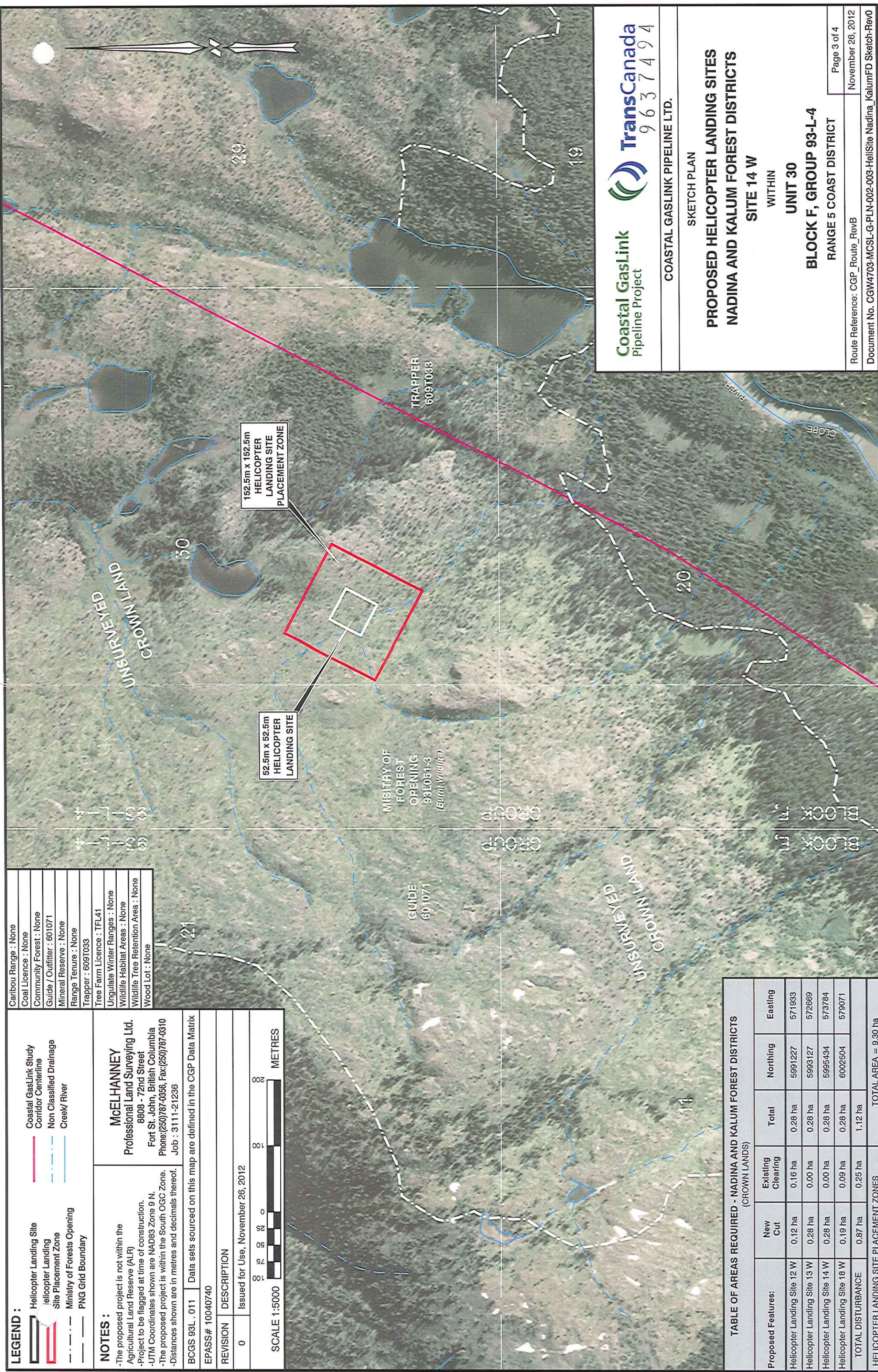
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SITE 12 W
 WITHIN
UNITS 72 AND 73
BLOCK D, GROUP 93-L-4
 RANGE 5 COAST DISTRICT

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 Document No. CGW4703-MCSL-G-PLN-002-001-HeliSite Nadina_KalumFD Sketch-Rev0

Page 1 of 4
 November 26, 2012

TABLE OF AREAS REQUIRED - NADINA AND KALUM FOREST DISTRICTS
 (CROWN LANDS)

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Coal Licence : None
Community Forest : None
Guide / Outfilter : 601071
Mineral Reserve : None
Range Tenure : None
Trapper : 609T033
Tree Farm Licence : TFL41
Ungulate Winter Ranges : None
Wildlife Habitat Areas : None
Wildlife Tree Retention Area : None
Wood Lot : None

LEGEND :

- Helicopter Landing Site
- Helicopter Landing Site Placement Zone
- Ministry of Forests Opening
- PNG Grid Boundary
- Coastal GasLink Study Corridor Centerline
- Non Classified Drainage
- Creek/ River

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BCGS 93L . 011	Data sets sourced on this map are defined in the CGP Data Matrix
EPASS# 10040740	
REVISION	DESCRIPTION
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SCALE 1:5000

METRES

Coastal GasLink
Pipeline Project

TransCanada
9637494

COASTAL GASLINK PIPELINE LTD.

SKETCH PLAN

PROPOSED HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS

SITE 14 W
 WITHIN
UNIT 30
BLOCK F, GROUP 93-L-4
 RANGE 5 COAST DISTRICT

Route Reference: CGP_Route_RevB
 November 26, 2012
 Page 3 of 4
 Document No. CGW4703-MCSL-G-PLN-002-003-HeliSite_Nadina_KalumFD_Sketch-Rev0

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(CROWN LANDS)

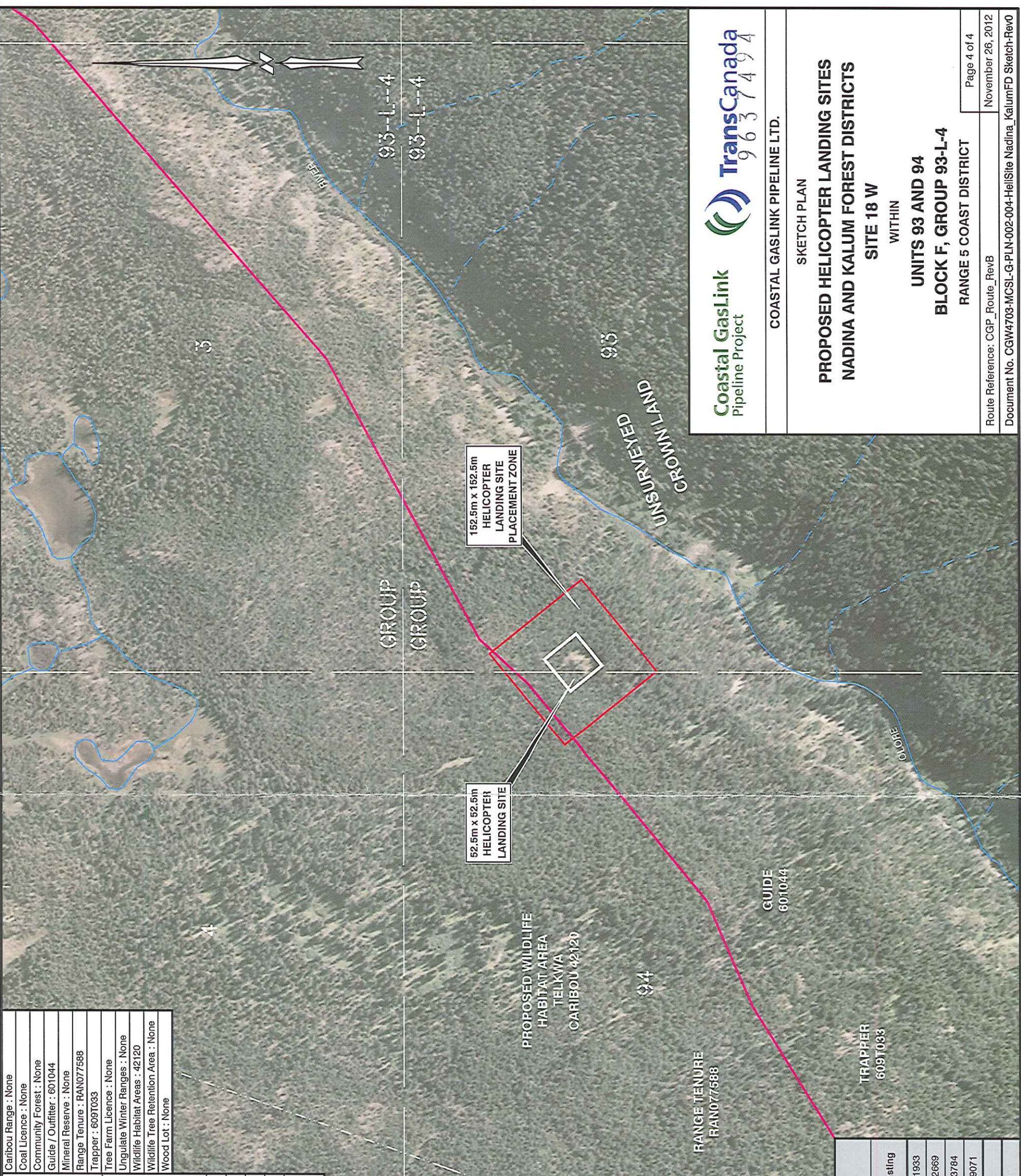
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HELICOPTER LANDING SITE PLACEMENT ZONES	TOTAL AREA = 9.30 ha				

Caribou Range : None
 Coal Licence : None
 Community Forest : None
 Guide / Outfitter : 601044
 Mineral Reserve : None
 Range Tenure : RAN077588
 Trapper : 609T033
 Tree Farm Licence : None
 Ungulate Winter Ranges : None
 Wildlife Habitat Areas : 42120
 Wildlife Tree Retention Area : None
 Wood Lot : None

LEGEND :
 Helicopter Landing Site
 Helicopter Landing Site Placement Zone
 PNG Grid Boundary
 Non Classified Drainage
 Coastal GasLink Study Corridor Centerline
 Creek/ River
 Proposed Wildlife Habitat Area

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 9 N.
 -The proposed project is within the South OGC Zone.
 -Distances shown are in metres and decimals thereof.

BCGS 93L . 012 Data sets sourced on this map are defined in the CGP Data Matrix
 EPASS# 10040740
 REVISION DESCRIPTION
 0 Issued for Use, November 26, 2012
 SCALE 1:5000
 METRES



COASTAL GASLINK PIPELINE LTD.
 SKETCH PLAN
PROPOSED HELICOPTER LANDING SITES
NADINA AND KALUM FOREST DISTRICTS
SITE 18 W
 WITHIN
UNITS 93 AND 94
BLOCK F, GROUP 93-L-4
 RANGE 5 COAST DISTRICT
 Page 4 of 4
 November 26, 2012
 Route Reference: CGP_Route_RevB
 Document No. CGW4703-MCSL-G-PLN-002-004-HeliSite Nadina_KalumFD Sketch-Rev0

TABLE OF AREAS REQUIRED - NADINA AND KALUM FOREST DISTRICTS (CROWN LANDS)

Proposed Features:	New Cut	Existing Clearing	Total	Northing	Easting
Helicopter Landing Site 12 W	0.12 ha	0.16 ha	0.28 ha	5991227	571933
Helicopter Landing Site 13 W	0.28 ha	0.00 ha	0.28 ha	5993127	572669
Helicopter Landing Site 14 W	0.28 ha	0.00 ha	0.28 ha	5995434	573784
Helicopter Landing Site 18 W	0.19 ha	0.09 ha	0.28 ha	6002504	579071
TOTAL DISTURBANCE	0.87 ha	0.25 ha	1.12 ha		
HELICOPTER LANDING SITE PLACEMENT ZONES	TOTAL AREA = 9.30 ha				