

SQCRD Info

From: FrontCounterBC@gov.bc.ca
Sent: Tuesday, October 01, 2013 11:56 AM
To: jmerrick@sqcrd.bc.ca; info@sqcrd.bc.ca
Subject: Province of BC Referral Request on an Aggregate/Quarry Materials application for an Investigative Permit - 6408617

Skeena Queen Charlotte Regional District
 Joan Merick, Joanne Fraser

Aggregate/Quarry Materials
 Referral Number: 66038535 - 005
 Reference Number: 114984
 Request Sent: October 1, 2013
 Response Due: October 31, 2013

You are invited to comment on the following Crown land application. A response is optional. If no response is received by the deadline, the application and adjudication process will move ahead.

This is a Crown Land Investigative Permit application for Aggregate and Quarry Materials - Construction Stone purposes.

Proponent: Metlakatla Development Corp

Tenure Type: Investigative Permit

Intended Land Use/background context: This is an application for an investigative permit for quarrying purposes. If the site is deemed suitable for a quarry, a Licence of Occupation will need to be applied for, and would be referred out to agencies.

BCGS Mapsheet: 103J029

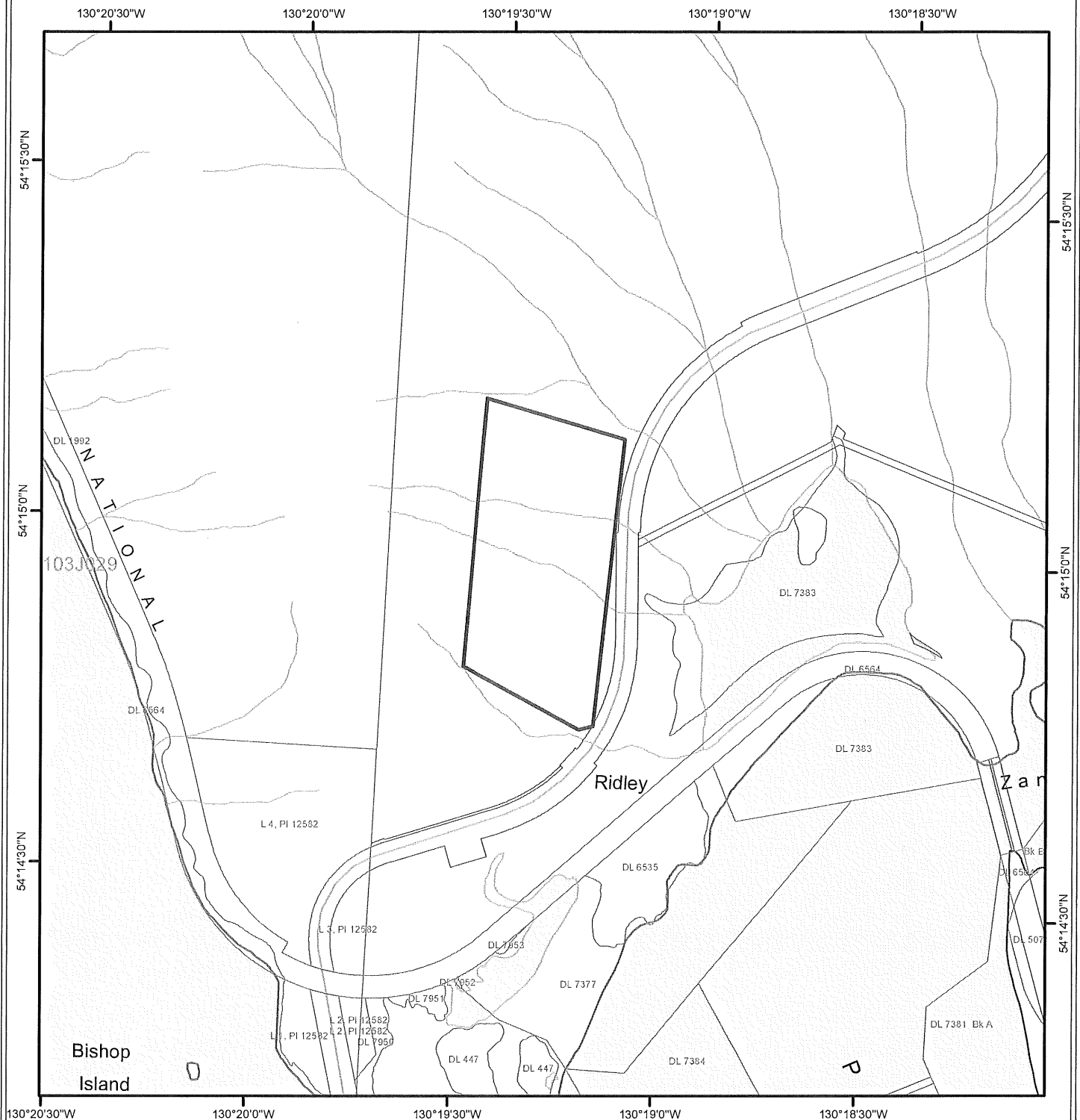
Legal Description: ALL THAT UNSURVEYED CROWN LAND IN THE VICINITY OF PORPOISE HARBOUR ON KAIEN ISLAND, RANGE 5 COAST DISTRICT, CONTAINING 27.73 HECTARES, MORE OR LESS.

Size (Area) in ha. (approx.): 27.73 ha +/-

Schedule/Term Of Proposal: 2 years

Please [Click Here](#) to respond to this referral. You must be logged in using your BCeID account to view associated information. Note that forwarding or otherwise distributing this email will provide access to the associated information only if the receiver has a corresponding account.

For "how-to" instructions on how to respond to this request, please visit <http://www.frontcounterbc.gov.bc.ca/ereferrals.html> for instructional videos. To obtain a BCeID, please visit <https://www.bceid.ca/>



Scale: 1:15,000
 Purpose: QUARRYING
 Subpurpose: CONSTRUCTION STONE
 Type: PERMIT
 Subtype: INVESTIGATIVE PERMIT

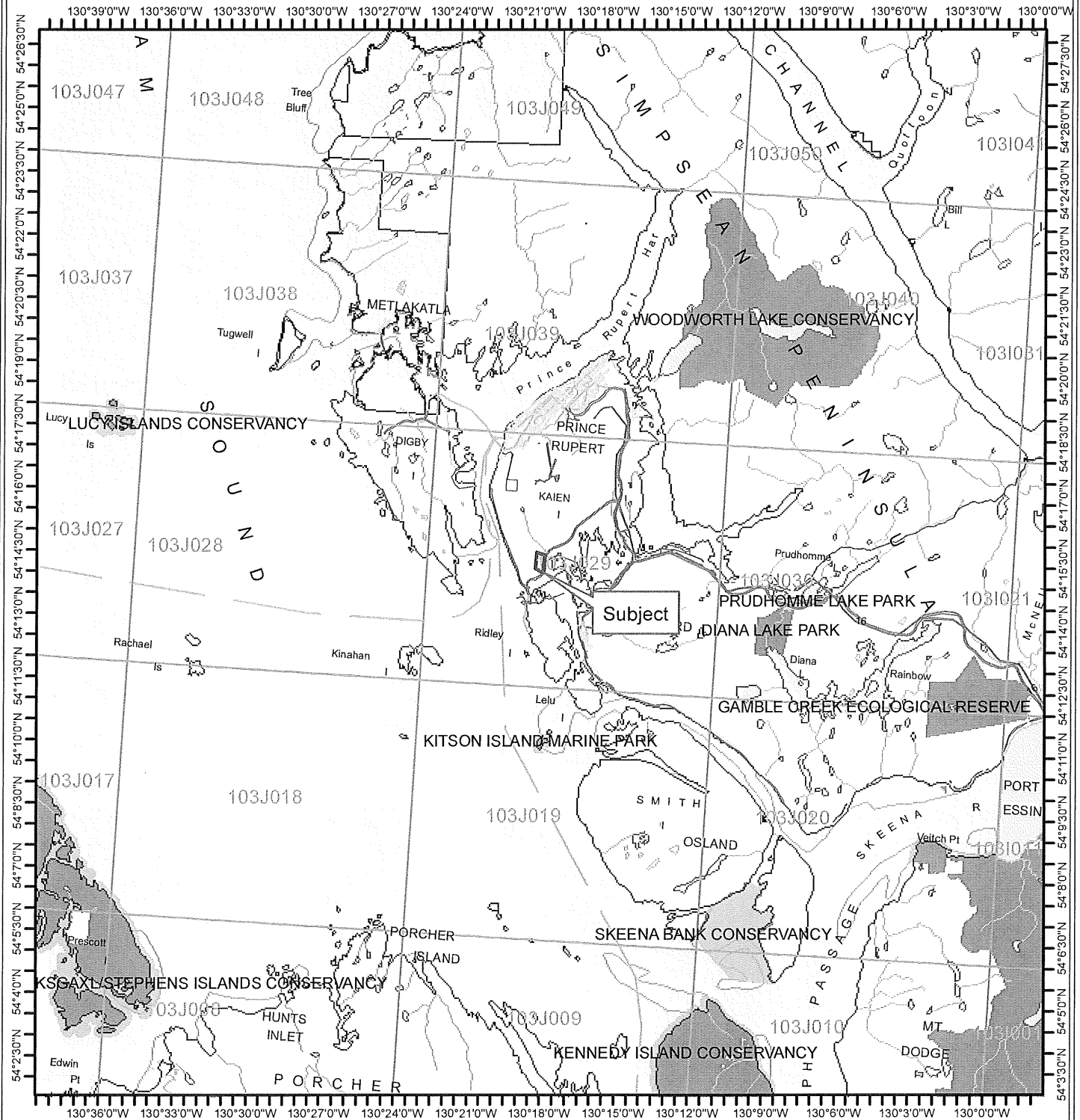
Application Area
 Indian Reserves
 Parks and Protected Areas






Referral Map



Date: 03 Sep 2013



Scale: 1:250,000
 Purpose: QUARRYING
 Subpurpose: CONSTRUCTION STONE
 Type: PERMIT
 Subtype: INVESTIGATIVE PERMIT

 Application Area
 Indian Reserves
 Parks and Protected Areas



Referral Map



BRITISH COLUMBIA
www.gov.bc.ca

Date: 03 Sep 2013

Metlakatla Development Corp.
PO Box 224
Prince Rupert, BC
V6J 3P6

June 10, 2013

FrontCounter BC
Suite 200-5220 Keith Avenue
Terrace, BC
V8G 1L1

Kaien Island Lookout Prospect – Management Report

1.0 Project Overview

1.1 Project and Purpose

The area of interest herein called “Kaien Island Lookout” is a parcel of land near Prince Rupert on Kaien Island that has been mapped as a potential rock quarry. Large volumes of rock material will be required by the Prince Rupert Port Authority, for the many planned port expansions. Metlakatla Development Corp. submits the following management report as part of an application for an Investigative Permit application on Crown Land for an investigation of the outlined parcel of land, (figure 2), adjacent to at Ridley Island road and northwest of the Ridley Island coal terminal.

If the investigation confirms the site contains suitable rock in volumes that are feasible for a quarry operation, Metlakatla will then apply for the parcel as a License of Occupation on Crown lands.

1.2 Site Location and Description

Kaien Island Lookout prospect is located 2.0 kilometers northwest of the Ridley Island coal terminal (figure 1). The Investigative Permit application is for approximately 31.5 ha and falls on Crown Lands .

Geographic coordinates:

54° 14' 49" N

130° 19' 13" W

UTM 9N 413968 and 6011795

1.3 Legal Description

All that un-alienated and unencumbered Crown Land with Queen Charlotte and Range 5, Coast District, more particularly shown outlined on Figures 2 and 3.

1.4 Access Plans

The proposed site can be access off of Ridley Island Road. From the intersection of Hwy 16 and Ridley Island road, head 4.3 kilometers west on Ridley Island Road; access will be made by turning right into the site. Refer to Figures 1 and 2.

Small trails will be built using an excavator as part of the exploration process. The site has second growth tree cover, any merchantable timber will be avoided, when possible. If merchantable time is downed for access, the trees will be gathered, cut to length for self-hauling logging truck, and neatly stacked near an entrance point to the site for removal from the allocated contractor (to be agreed upon with the timber licensee). Note: this process will only begin once a Licence to Cut has been issue.

1.5 Site Plan

Please refer to the site general map (figure 3 and the site specific mas (figure 3 and 4). Based on a sampling grid test pits will be laid out across the Investigative Permit using a handheld GPS unit and flagging tape. There may be as many as 13 test pits, dug to a depth of 1 to 2 meters. Only those test pits that can be refilled within the same day of the sampling, will be dug, so approximately 2 to 4 days of sampling will be required.

2.0 **Project Description**

2.1 Description of Work

A field investigation will be conducted to dig as many as 13 test pits, throughout the Investigative Permit area. Depth of overburden as well as rock samples will be taken to determine if the rock is suitable for quarry operations.

The machine to be used will be a large excavator (e.g. CAT 330) outfitted with a thumb and bushguard to build trails through the forested area. A temporary small trench, the width of the machine's bucket, will be dug to the desired depth in each test pit.

Topsoil will be stockpiled separately. Each hole will refilled the same day it was excavated, with topsoil spread on top to restore the site as close as possible to its original condition.

Each test pit will require a small area for the excavator to sit and maneuver while in operation, as well as an area for the excavated material to be piled until the hole can be re-filled. This space will be approximately 10 M².

Only small sample bags of representative material (rock: no topsoil) from each test pit will be removed from the site. All other material will be left in place. Topsoil will be piled separately to the underlying material during sampling, to be put back on top of each test pit hole once it is filled.

The Investigative project will require approximately one week of dry conditions during the summer period, depending on when a permit is granted.

2.2 Present State of Land

The Kaien Island Lookout Prospect is on Crown Land. The current land use is Forestry. The planning land use for this prospect has a reserve/notation for industrial uses. The site is mainly bedrock, sloping from west to east. The vegetation is the after growth of an area previously logged. There is a layer of organics and overburden on top of the bedrock.

2.3 Environmental

2.3.1 Land Impacts

The proposed investigative project will have minimal impacts to the land as the test pits are temporary and small scale. The forest cover is mostly non-merchantable timber. Some trees will be removed during building of the trails to access the test pits sites; this will be done in a way to minimize the required number of trails for access to the sites, reducing the number of trees that need to be removed. Any trees that need to be felled during trail building will be hauled to the access area off the main road, bucked to accommodate a self-hauling logging truck, and neatly stacked. They will be removed from the site by the contractor that is in agreement with the forest tenure holder (to be determined at a later date once volumes have been determined).

2.3.2 Atmospheric Impacts

There will be some diesel exhaust from the operating machinery, but this will be kept to a minimum. Some dust may be produced during the excavation, but the coarse grain size of the material should keep this to a minimum. There are no nearby residences

(the nearest residence is over 5.6 kilometers away from the proposed operation) to be disturbed by what noise may be produced during the project (operating machinery). Hours of operation will be limited to 8:00 am to 6:00 pm, during the work week, and the whole testing will take less than one week to complete. Odor are not expected to be a concern.

2.3.3 Aquatic Impacts

The proposed sampling project will have no direct impact on the aquatic environment; there are two seasonal water courses within the project area, which only flow during the heavy winter rain season. The testing will be done during the period that these small water channels are not flowing. If necessary a mat will be constructed to cross the intermittent streams. The depth to the water table is not known, but if water is encountered during the sampling, excavation of the hole will stop immediately.

2.3.4 Fish and Wildlife Impacts

The proposed project should have no direct impact on fish and wildlife habitats. The nearest water body is the ocean, which is 250 meters to the west of Ridley Island road. The proposed project will have no direct connectivity to the ocean, and no disturbances is expected as the test pit will be small, isolated patches of land disturbed for very limited amounts of time (one day). There are no known threatened or endangered species in the area that will be impacted by this project.

2.4 Socio-Community

2.4.1 Land Use

The proposed project will not affect existing land uses in the area, as the land is remote from residential zoning, and has a reserve/notation appropriately for the proposed work. All test pits will be filled on the same day they are dug, and topsoil will be replaced immediately following the filling of the holes.

2.4.2 Socio-community Conditions

The proposed project will not affect or influence existing community services or infrastructure, as the site is remote and not disturbing any existing water lines supplies, emergency services, or transportation. Traffic from the machinery to the site will be

infrequent and minimal on Ridley Island road; a flatbed will bring the machine to the site on the first day of testing, and remove it at the end of the program, (5 days later).

2.4.3 Public Health

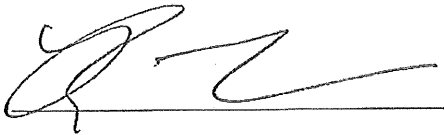
The proposed project will not affect public health, as there will be minimal to zero waste on-site, and waste disposal will be managed responsibly and according to site codes. Site contamination will be minimal to zero. Spill kits will accompany the machinery.

2.4.4 First Nations

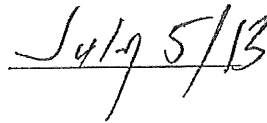
We the Metlakatla First Nation are not aware of any cultural significance of this site or the surrounding areas.

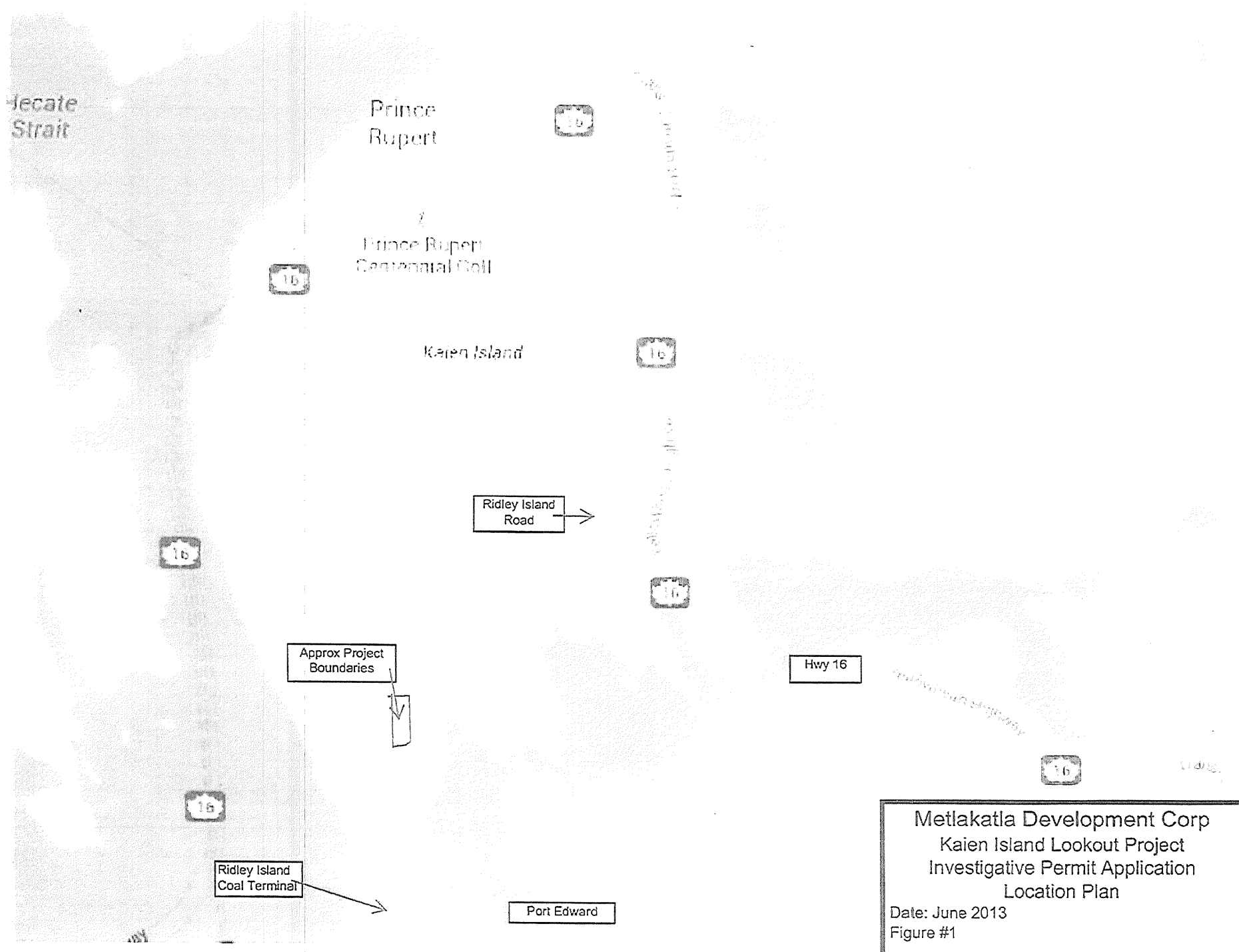
Approval of Management Plan

Signed:

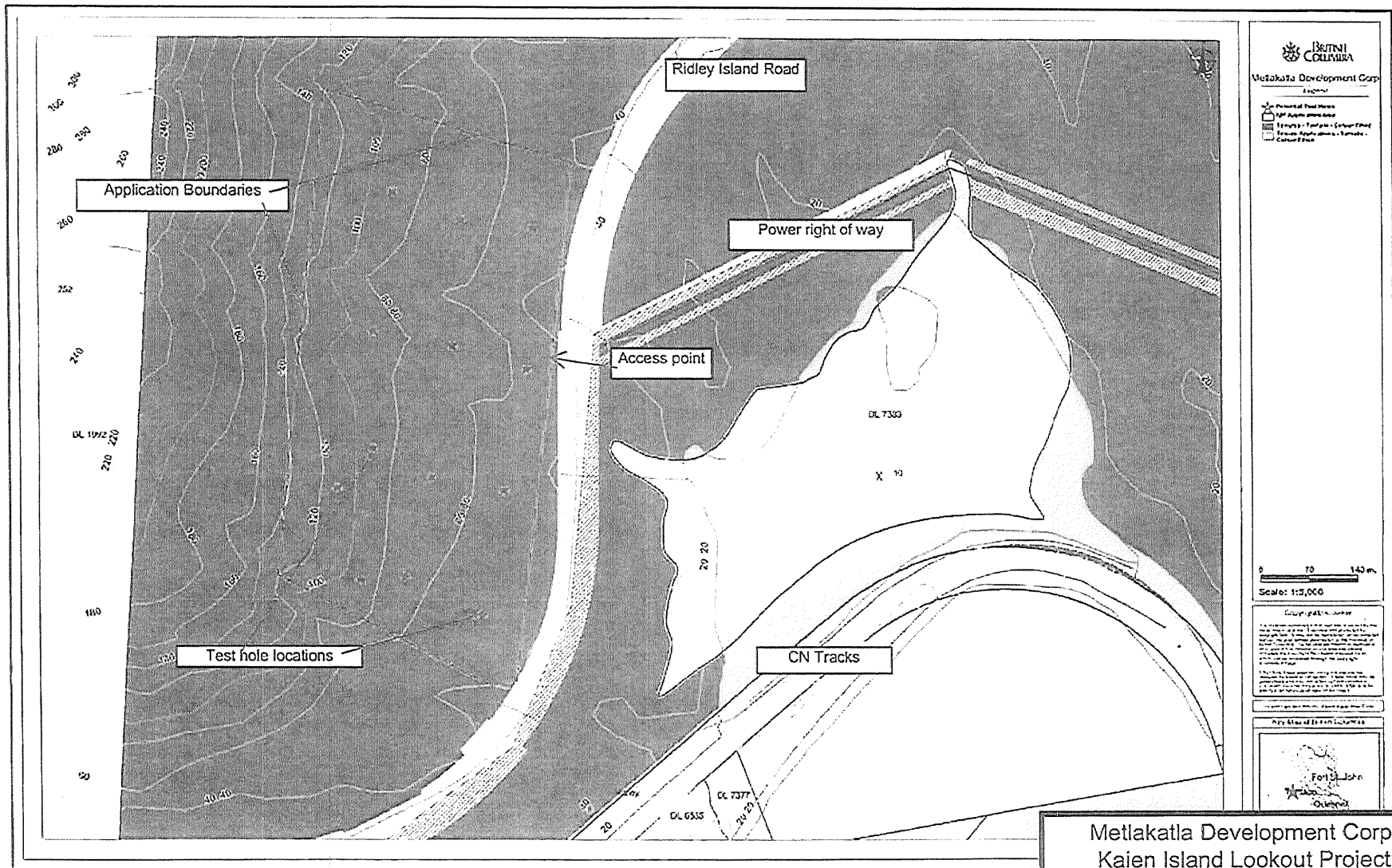
A handwritten signature in black ink, consisting of a stylized 'Q' followed by a horizontal line and a flourish.

Date:

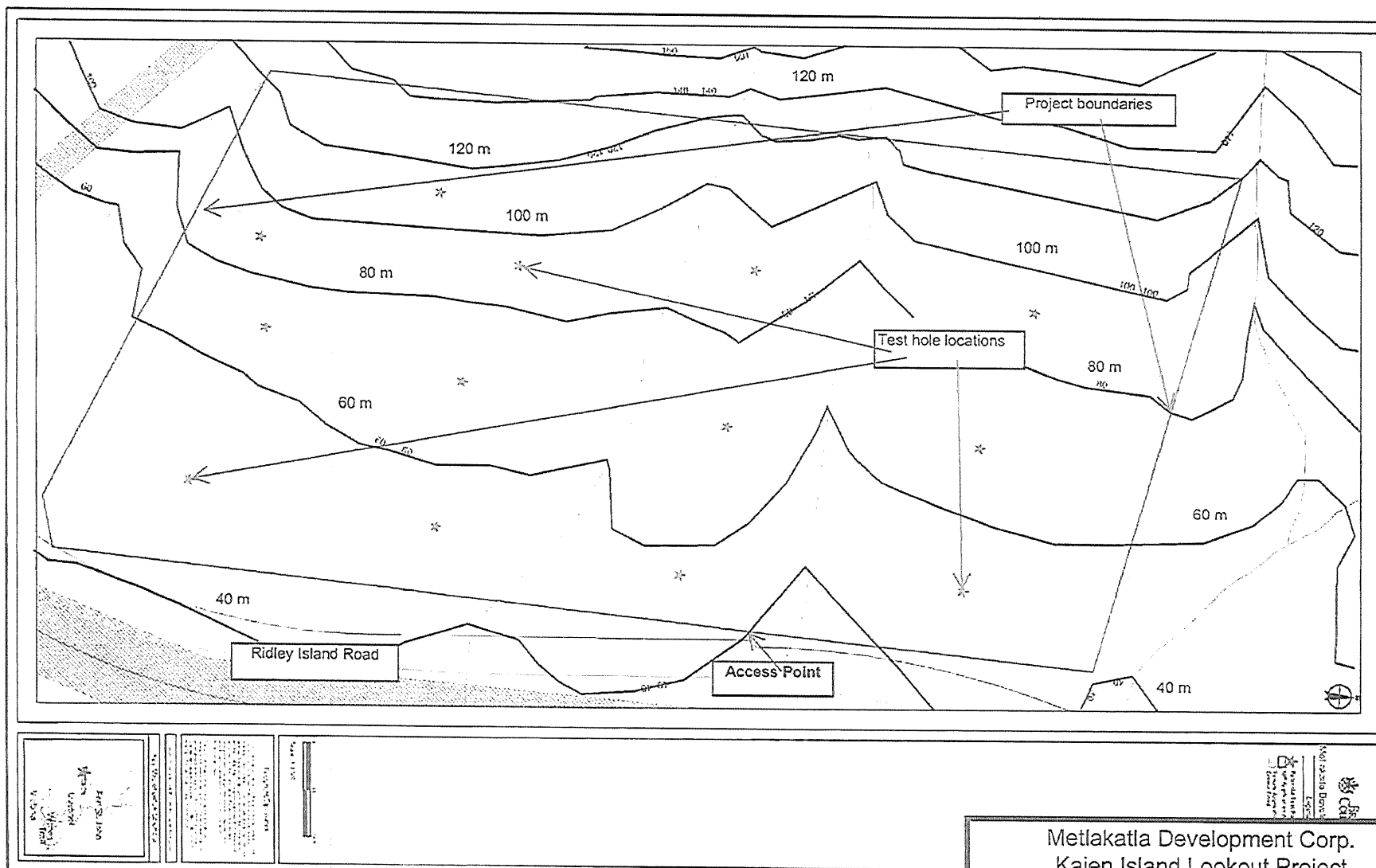
A handwritten date in black ink, reading 'July 5/13'.



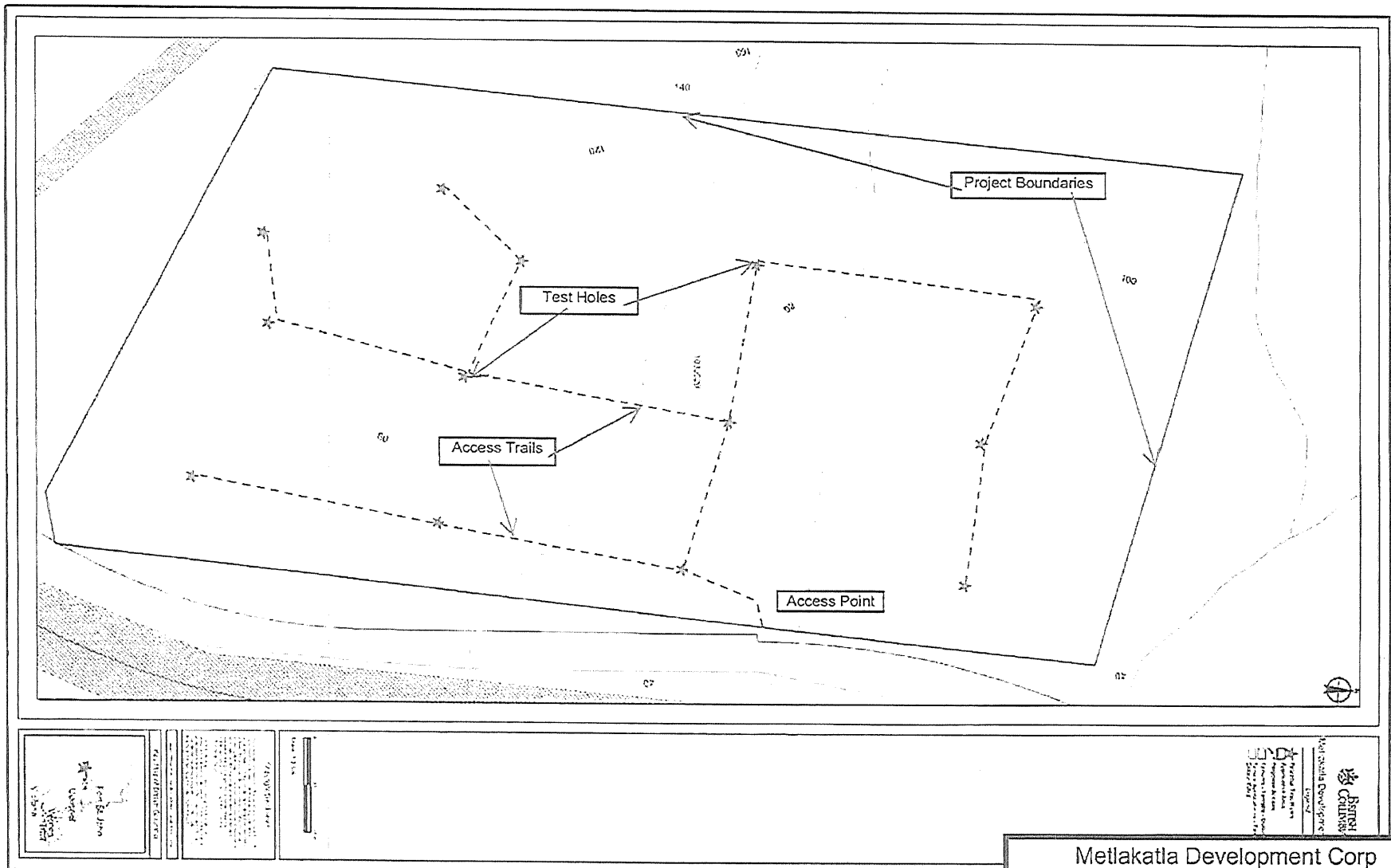
Metlakatla Development Corp
Kaien Island Lookout Project
Investigative Permit Application
Location Plan
Date: June 2013
Figure #1



Metlakatla Development Corp.
Kaien Island Lookout Project
Investigative Permit Application
Access Plan
Date: June 2013
Figure #2



Metlakatla Development Corp.
 Kaien Island Lookout Project
 Investigative Permit Application
 Site and Contour Plan
 Date: June 2013
 Figure #3



Metlakatla Development Corp
 Kaien Island Lookout Project
 Investigative Permit Application
 Access trails and Test Holes
 Date: June 2013
 Figure #4

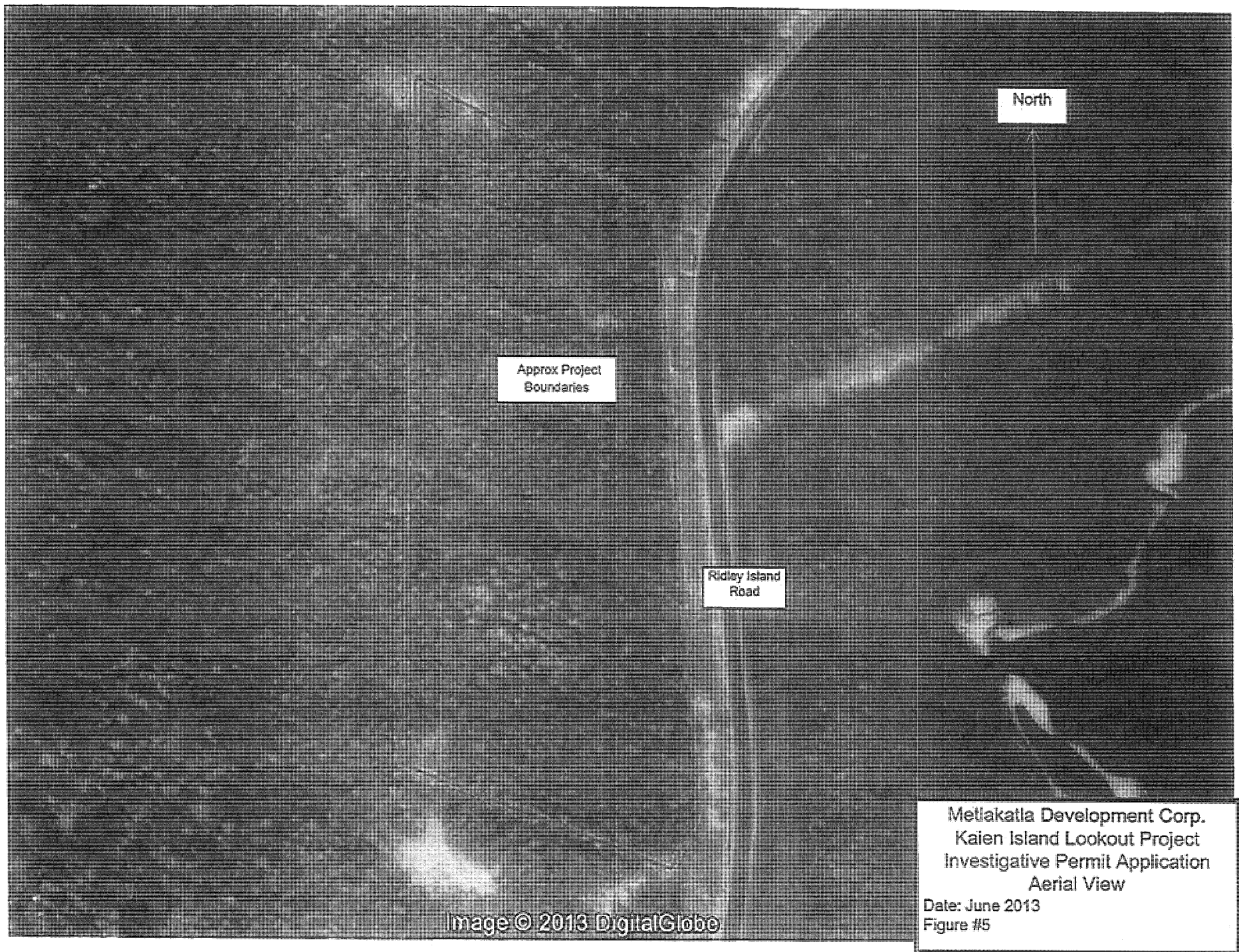


Image © 2013 DigitalGlobe

Metlakatla Development Corp.
Kaien Island Lookout Project
Investigative Permit Application
Aerial View

Date: June 2013
Figure #5

RECEIVED

SEP 10 2013

REGIONAL DISTRICT OF SKEENA-QUEEN CHARLOTTE
PRINCE RUPERT BRITISH COLUMBIA

August 30, 2013



TransCanada

In business to deliver

TransCanada Corporation
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Calgary, AB, Canada T2P
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Tel: 403-920-7061

Fax: 403-920-2334

Emergency: 1-855-253-0099

Email:

dave_kmet@transcanada.com

www.transcanada.com/

REGISTERED MAIL

REGIONAL DISTRICT OF SKEENA-QUEEN CHARLOTTE
ATTN: JOAN MERRICK 100 - 1ST AVENUE EAST
PRINCE RUPERT BRITISH COLUMBIA V8J 1A6

PRGT4776-HMA-LA-LTR-00230

Re: PRINCE RUPERT GAS TRANSMISSION LTD.
HMA File No. 13-3551 PRGT-0041-AA
TCPL File No. 2216588
Tenure No. MUNICIPALITY
Investigative Area (Crossing No.316) within Units 13, 14, 23 & 24, Blk I, 103-P-6
Boreholes

Please be informed that our client, Prince Rupert Gas Transmission Ltd., a wholly owned subsidiary of TransCanada, is preparing to make application for permit(s) to undertake geotechnical assessments of selected river crossings. Enclosed is a description of the proposed work and map of where it will be done.

If you have any questions or concerns about this proposal please respond within fourteen (14) days of receiving this letter. Your comments or queries may be directed to myself, John Derksen at 403-385-4231 or email jderksen@hmaland.com.

Yours truly,
HMA Land Services Ltd.

John Derksen
Project Manager

Enclosure
/km

Prince Rupert
Gas Transmission Project



Engineering Geotechnical Investigative Program

Horizontal Directional Drilling (HDD) Site Assessment

Kshadin Creek Crossing

Alice Arm / Crossing 316

Prince Rupert Gas Transmission Ltd., a wholly owned subsidiary of TransCanada Corporation, is seeking to undertake a Horizontal Directional Drilling (HDD) Site Assessment at Kshadin Creek Crossing.

HDD is a non-obtrusive, trenchless method of installing a pipeline with minimal impact to surrounding areas. Field assessments are undertaken to confirm the technical feasibility of constructing pipeline crossings using HDD techniques.

Prior to implementation, a planned travel route will be established for each site. Generally, existing highways, logging roads, or trails are used to access the sites. There may be some brushing or clearing required. In some circumstances, barge-supported drill rigs and heli-portable drill rigs may be used if access is restricted.

Geotechnical investigation includes both soil boring and soil sampling. A drilling rig is used to drill boreholes into the subsurface and to obtain soil samples for laboratory testing. The boreholes are approximately 150 mm in diameter, and depths may vary depending on site conditions. Depending on the drilling technique used, water may be required for the drilling process. If required, water will be withdrawn from Nass River, under Section 8 of the BC Water Act. The water is re-circulated during the drilling process. Up to two boreholes are planned for the geotechnical investigations pertaining to Kshadin Creek Crossing.

Geophysical survey is a non-intrusive method to obtain soil information on the physical properties of soil and rock. The geophysical survey is implemented using Ground Penetrating Radar (GPR) technology or Electrical Resistivity Tomography (ERT) techniques to map subsurface conditions. If used, the GPR unit will be towed behind an All Terrain Vehicle (ATV) such as a quad or Argo type vehicle, using radar pulses to image the subsurface. The ERT technique involves the temporary insertion of approximately 1.5 cm diameter x 1.2 m long stainless steel electrodes into the ground up to a maximum depth of 1 m, at regular intervals.

To do the borehole drilling and geophysical survey, a cutline 1.5 m in width connecting each of the borehole sites may be cleared for safety and access.

Schedule – Fall 2013 (Pending Regulatory Approval)

Duration – It is anticipated that the investigative program will require 15 days to complete, not including mobilization, site preparation, and demobilization. Geophysical survey will occur during the drilling operation, and expected to be completed within the drilling schedule for each site.

Equipment – A limited number of vehicles may be required, such as a heli-portable rig, drilling tools and materials, an air compressor, clearing equipment such as chain saws, and geophysical survey equipment.

Prince Rupert Gas Transmission Project



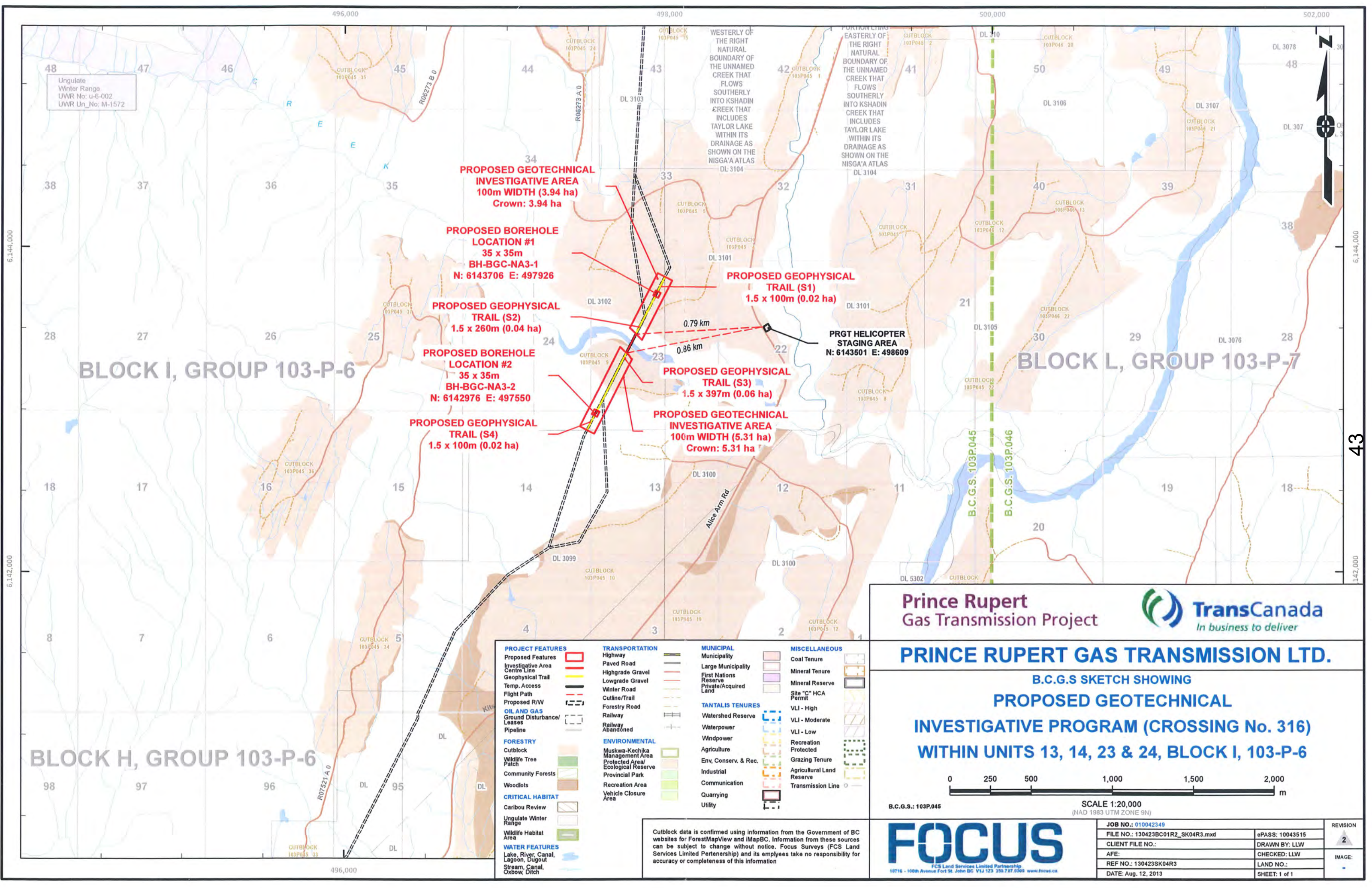
Left: A compact drilling rig.



Right: A heli-portable drilling rig.



Left: A larger track mounted drilling rig.



Ungulate
Winter Range
UWR No: u-6-002
UWR Un_No: M-1572

**PROPOSED GEOTECHNICAL
INVESTIGATIVE AREA**
100m WIDTH (3.94 ha)
Crown: 3.94 ha

**PROPOSED BOREHOLE
LOCATION #1**
35 x 35m
BH-BGC-NA3-1
N: 6143706 E: 497926

**PROPOSED GEOPHYSICAL
TRAIL (S2)**
1.5 x 260m (0.04 ha)

**PROPOSED BOREHOLE
LOCATION #2**
35 x 35m
BH-BGC-NA3-2
N: 6142976 E: 497550

**PROPOSED GEOPHYSICAL
TRAIL (S4)**
1.5 x 100m (0.02 ha)

**PROPOSED GEOPHYSICAL
TRAIL (S1)**
1.5 x 100m (0.02 ha)

**PRGT HELICOPTER
STAGING AREA**
N: 6143501 E: 498609

**PROPOSED GEOPHYSICAL
TRAIL (S3)**
1.5 x 397m (0.06 ha)

**PROPOSED GEOTECHNICAL
INVESTIGATIVE AREA**
100m WIDTH (5.31 ha)
Crown: 5.31 ha

BLOCK I, GROUP 103-P-6

BLOCK L, GROUP 103-P-7

BLOCK H, GROUP 103-P-6

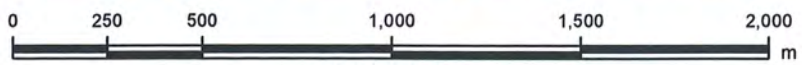
PROJECT FEATURES	
Proposed Features	
Investigative Area	
Centre Line	
Geophysical Trail	
Temp. Access	
Flight Path	
Proposed R/W	
Oil and Gas	
Ground Disturbance/Leases	
Pipeline	
FORESTRY	
Cutblock	
Wildlife Tree Patch	
Community Forests	
Woodlots	
CRITICAL HABITAT	
Caribou Review	
Ungulate Winter Range	
Wildlife Habitat Area	
WATER FEATURES	
Lake, River, Canal, Lagoon, Dugout	
Stream, Canal, Oxbow, Ditch	
TRANSPORTATION	
Highway	
Paved Road	
Highgrade Gravel	
Lowgrade Gravel	
Winter Road	
Cutline/Trail	
Forestry Road	
Railway	
Railway Abandoned	
MUNICIPAL	
Municipality	
Large Municipality	
First Nations Reserve	
Private/Acquired Land	
TANTALIS TENURES	
Watershed Reserve	
Waterpower	
Windpower	
Agriculture	
Env. Conserv. & Rec.	
Industrial	
Communication	
Quarrying	
Utility	
ENVIRONMENTAL	
Muskwa-Kechika Management Area	
Protected Area/Ecological Reserve	
Provincial Park	
Recreation Area	
Vehicle Closure Area	
MISCELLANEOUS	
Coal Tenure	
Mineral Tenure	
Mineral Reserve	
Site "C" HCA Permit	
VLI - High	
VLI - Moderate	
VLI - Low	
Recreation Protected	
Grazing Tenure	
Agricultural Land Reserve	
Transmission Line	

Prince Rupert
Gas Transmission Project



PRINCE RUPERT GAS TRANSMISSION LTD.

B.C.G.S SKETCH SHOWING
PROPOSED GEOTECHNICAL
INVESTIGATIVE PROGRAM (CROSSING No. 316)
WITHIN UNITS 13, 14, 23 & 24, BLOCK I, 103-P-6



B.C.G.S.: 103P.045

SCALE 1:20,000
(NAD 1983 UTM ZONE 9N)



JOB NO.: 010942349	FILE NO.: 130423BC01R2_SK04R3.mxd	ePASS: 10043515	REVISION
CLIENT FILE NO.:	AFI:	CHECKED: LLW	2
REF NO.: 130423SK04R3	DATE: Aug. 12, 2013	LAND NO.:	IMAGE:
		SHEET: 1 of 1	

Cutblock data is confirmed using information from the Government of BC websites for ForestMapView and iMapBC. Information from these sources can be subject to change without notice. Focus Surveys (FCS Land Services Limited Partnership) and its employees take no responsibility for accuracy or completeness of this information