

November 27, 2019

Our File: 2341-02603-00

By Email: Jason.Northcott@gov.bc.ca

Jason Northcott
Natural Resource Specialist
Front Counter BC
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Re: Management Plan for LICENCE OF OCCUPATION for QUARRYING – ROCK FOR
CRUSHING AT Lax-Kw'Alaams Hays Quarry.

Lax-Kw'Alaams Business Development LP wishes to obtain a Licence of Occupation (LOO) for
the purpose of quarrying to provide aggregate for the local market.

If you require additional information or clarification please contact me.

Yours truly,

McElhanney Ltd.



David Pow, P.Eng.
Mining Engineer



.877.725.3293

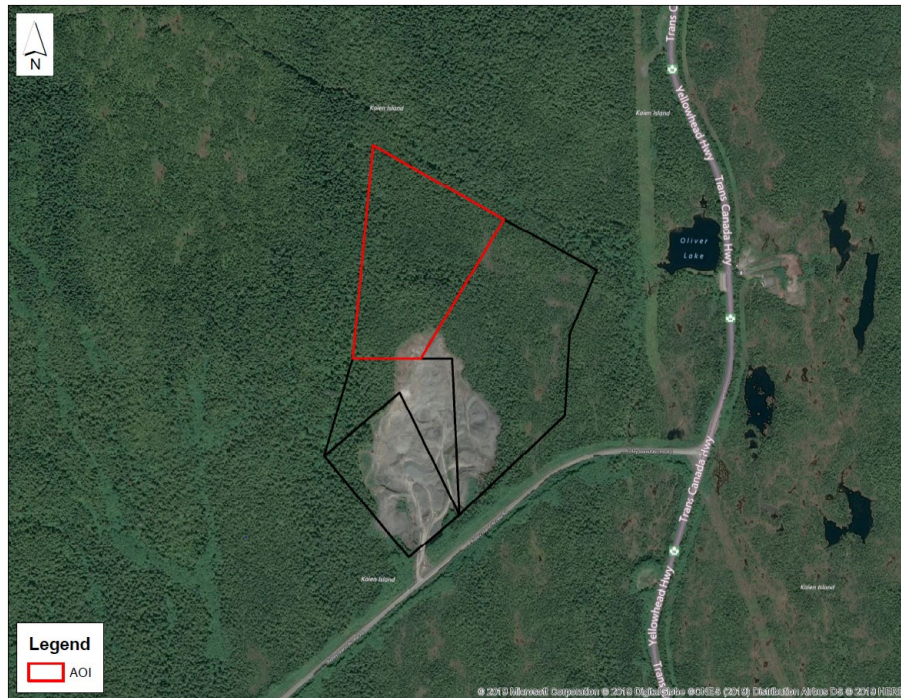


LAX KW'ALAAMS BUSINESS DEVELOPMENT LP

MANAGEMENT PLAN

PROPOSED LICENCE OF OCCUPATION FOR QUARRYING AT

Lax-Kw'Alaams Hays Quarry



Lax-Kw'Alaams plan to utilize this quarry for the production of aggregate for the local market.

1. Background

The adjacent quarry sites to the proposed Licence of Occupation site have been operating since approximately 1999 and plans are to continue operating these sites for many years.

1.1 Project Overview

The quarry operation will involve the drilling and blasting of the rock in benches to produce aggregate. Crushing and screening is performed as required to produce sized rock for the local aggregate market.

This quarry will be operated under permit from the Ministry of Energy, Mines and Petroleum Resources (MEMPR).

Access to the site will utilize the current access to the Ridley Island Quarry and will be restricted to authorized personnel only. There is a gate which is locked during periods when the site is not operational to prevent inadvertent access by unauthorized persons.

1.2 Investigative Work

Investigative work is not required for this site as the adjacent sites provide information on the condition and quality of the rock which will be encountered.

1.3 First Nations Consultation

Lax-Kw'Alaams First Nations have informed their members as to the planned operation of this quarry.

2. Location

The property is located approximately 0.9km along the Ridley Island Access Road west of Yellowhead Highway, (Figure 1). The UTM (9U) coordinates for the site are approximately 416350m E and 6015400m N.

2.1 Description

The tenure legal description is: Unsurveyed Crown Land.

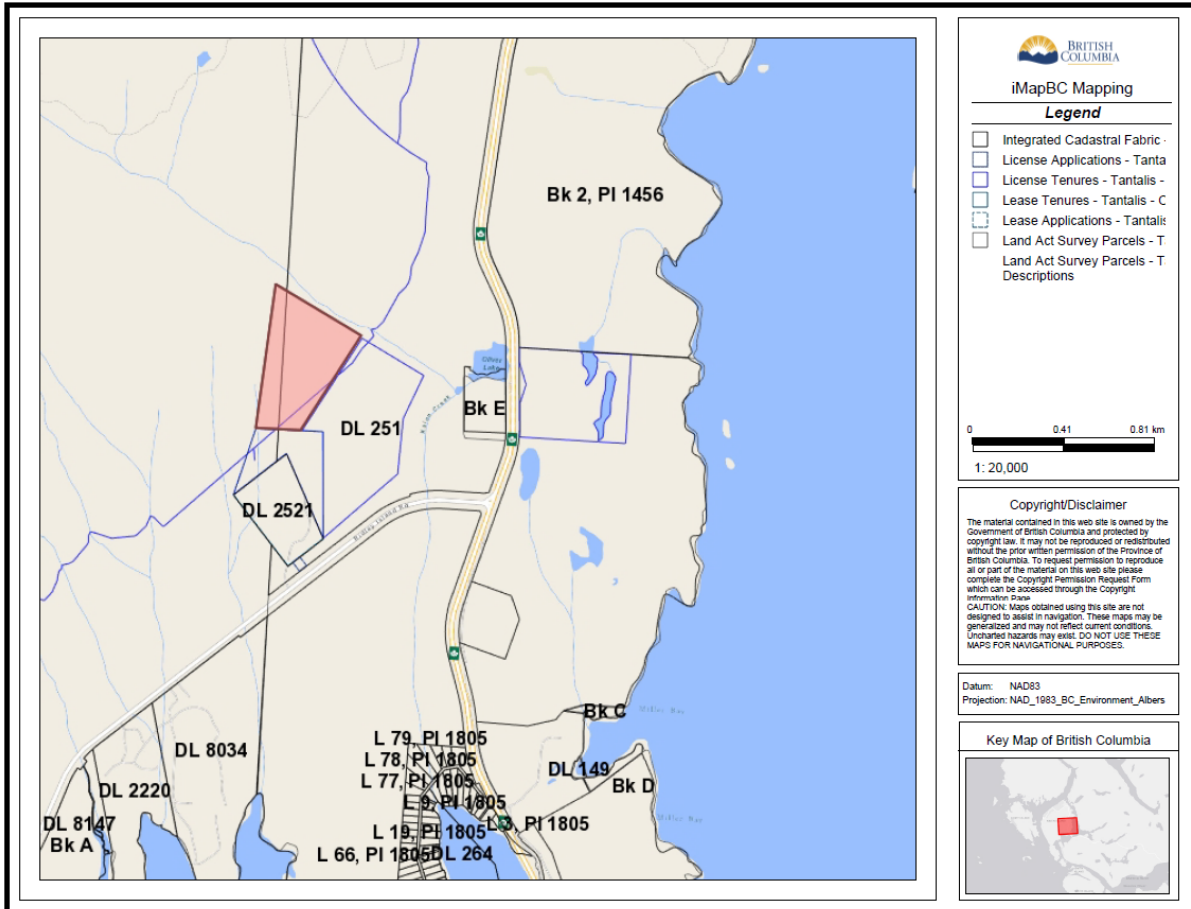


Figure 1: Proposed Licence of Occupation Area Location

2.2 Location Justification

This site was selected as it has a suitable aggregate resource adjacent to current operating quarries and will be developed to service the aggregate requirements of the Prince Rupert and Ridley Island area.

2.3 Seasonal Use

There will be year-round use of the site.

3. Infrastructure and Improvements

3.1 Facilities and Infrastructure

There are no existing facilities on this site. The adjacent quarry has:

- an office
- fueling station
- washing facilities
- first aid station
- electrical power

3.2 Access

This property will be accessed from the adjacent quarry access road which connects to the Ridley Island Access Road. The access road is only used by the quarry operations and is considered a private road.

Truck traffic on the road is estimated at approximately 20 trucks per day (Monday through Friday) with a possible peak of approximately 50 trucks per day during the summer construction season.

3.3 Utility Requirements

The quarry operation is self sufficient and may utilize electrical power which is available from the adjacent property.

3.4 Water Requirements

Water is required for dust control on site and will be provided from the settling pond(s) used to collect the runoff on site.

3.5 Waste

Minimal waste will be generated from operations. Any waste generated on site will be collected and disposed of at an approved land fill site.

4. Environmental

4.1 Land Impacts

As the quarry is developed tree removal and vegetation stripping will be conducted to expose the rock. The topsoil and overburden will be stockpiled for use in the reclamation program.

There is currently 0.2 hectares of area which has been logged on this site, (Figure 3).

At the end of operations, the site will be sloped and vegetated to return it to a forestry and wildlife land use.



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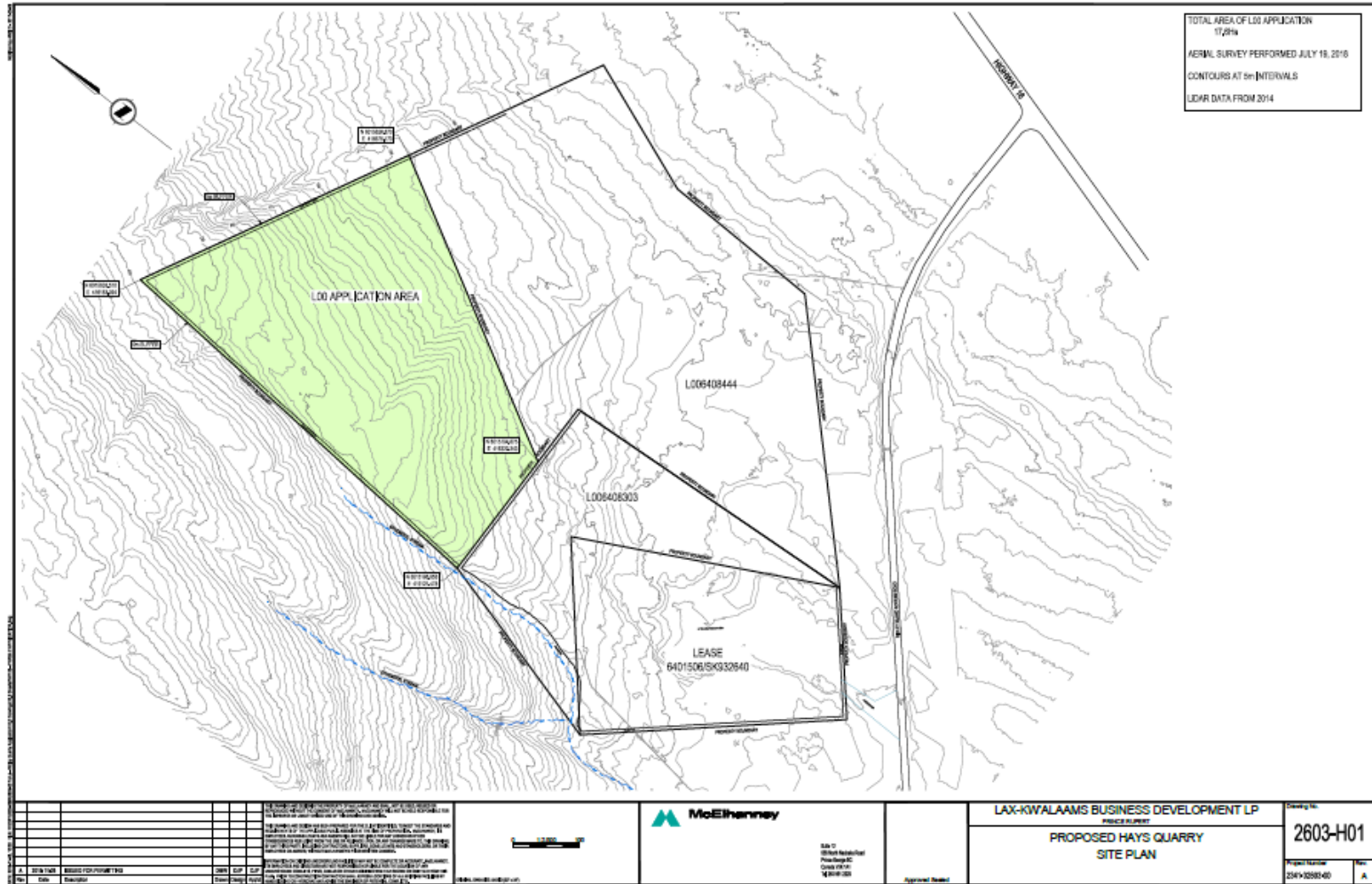


Figure 2: Proposed Development Area



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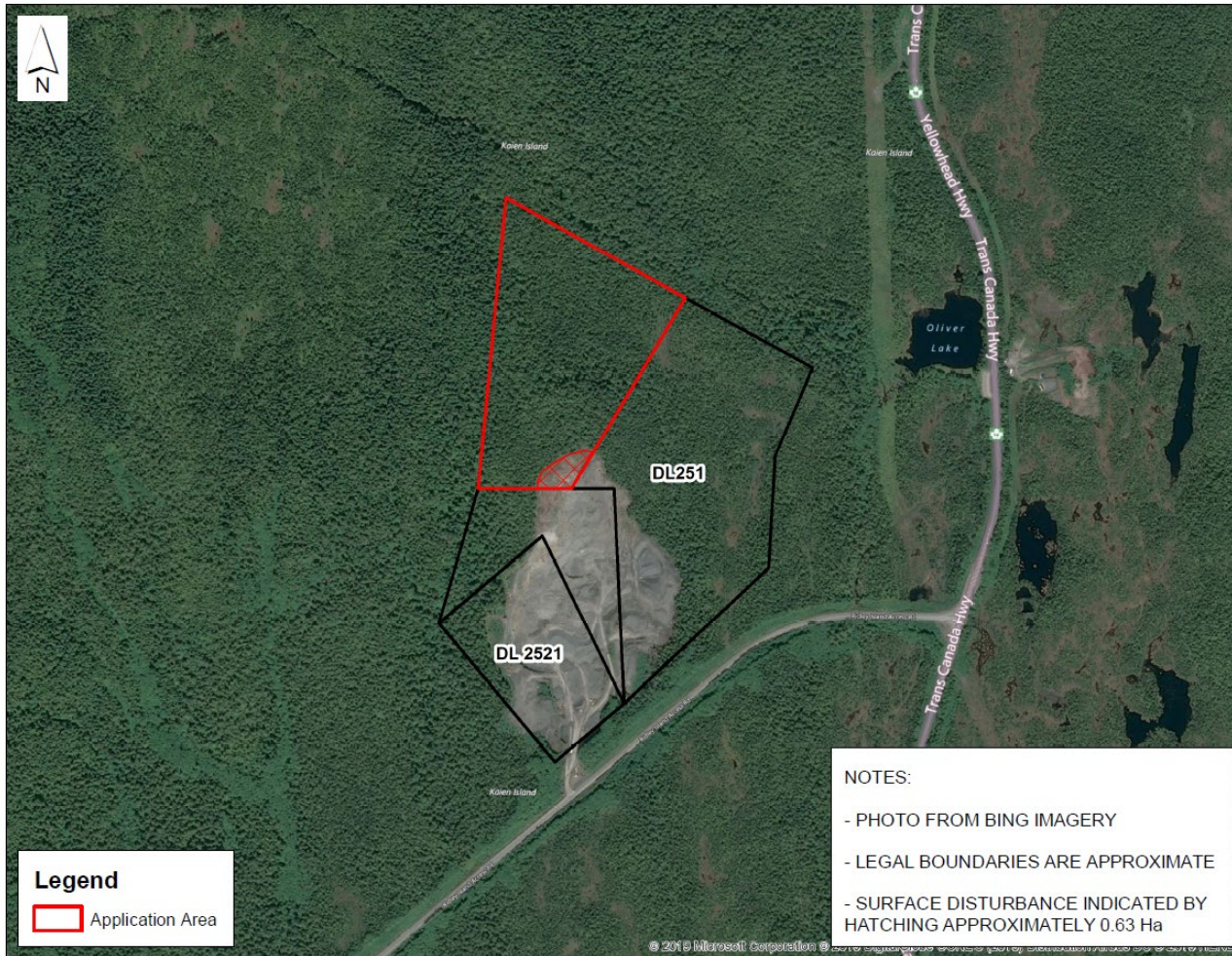


Figure 3: Proposed Licence of Occupation Location Area of Disturbance

4.2 Pesticides and Herbicides

There will be no pesticides or herbicides used on site.

4.3 Visual Impacts

Vegetation will be maintained around the site and the activities on site will have minimal impact on the surrounding area and neighbours.

4.4 Archaeological Sites

An Archaeological Overview Assessment was prepared by Archer CRM Partnership in 2012 and all activities on site have been conducted in accordance with the report.

An Archaeological Chance Find plan will be developed as part of the Notice of Work application for EMPR.

4.5 Atmospheric Impacts

There are no neighbours in the immediate area. Water sprays are utilized for dust control and the equipment is maintained to ensure there are minimal emissions.

A wheel wash facility is located on site for use of trucks leaving the quarry.

4.6 Water Drainage Effects

Drainage ditches will be constructed above the work area to minimize the water that comes into contact with the disturbed areas. On site water will be directed to a settling pond(s) and provides water for dust suppression on site.

There is no flood potential on this property.

4.7 Fish and Wildlife Habitat Impacts

An ephemeral stream located at the north-east area of the site will be avoided to ensure there is no impact to the stream.

This site is surrounded by forested lands and there is no critical habitat present on the site.

5. Socio-Community Impacts

This site predates the Land and Resource Management Plan (LRMP). Its possible socio-community impacts were evaluated and there have been no restrictions placed on the current and planned activities in regard to the aggregated extraction and processing.

The closest neighbour is approximately 1km away is the local land fill site.

Use of this site does not alienate any tenure holders from accessing their site.

To ensure public safety access will be restricted to approved personnel having business with the quarry operation.




The operation of this quarry provides employment to the local community as well as aggregate required for building and construction.

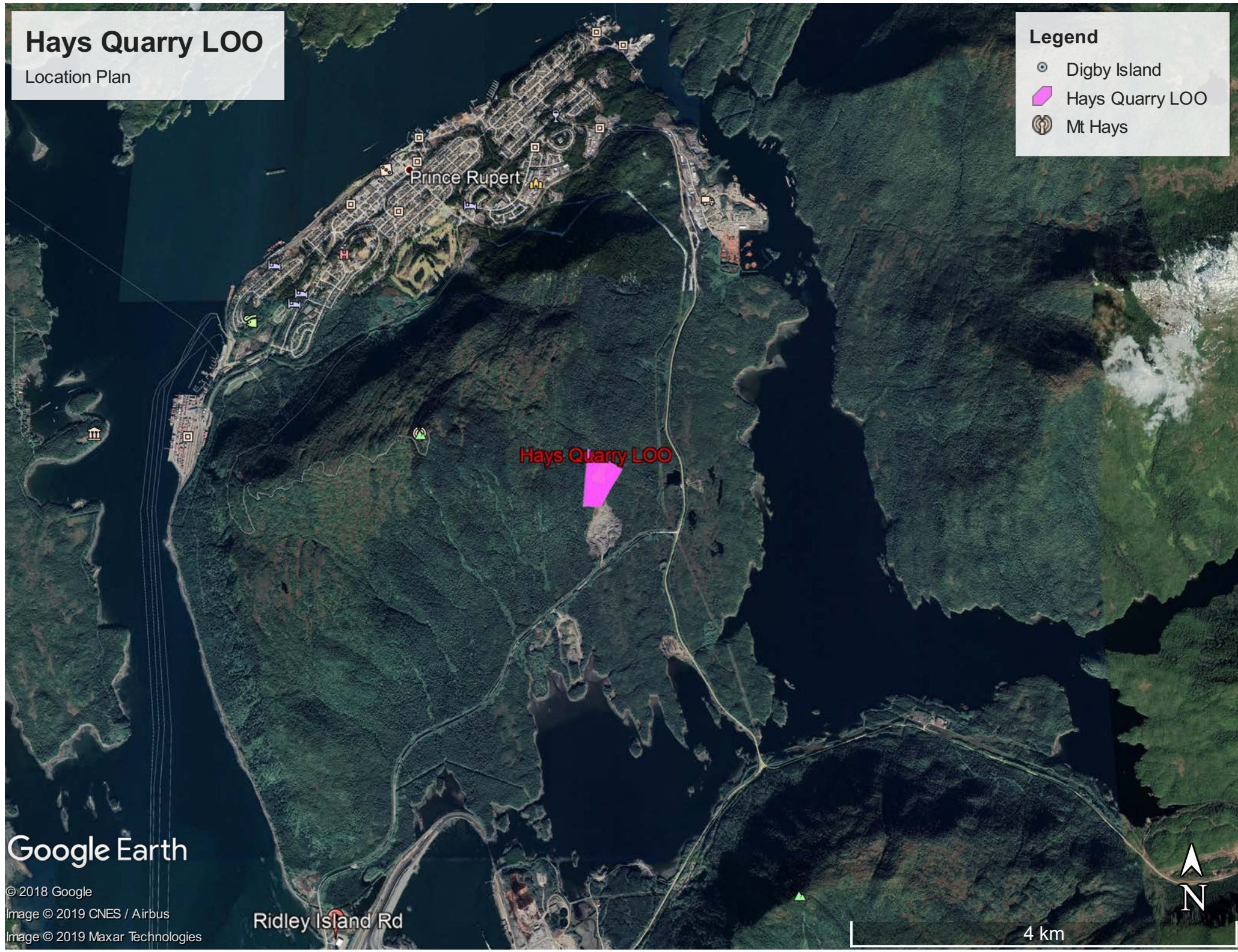
The adjacent quarry operations have fire, health and emergency services as required under the Mines Act and Code. The assistance of the local community resources is available if required.

Hays Quarry LOO

Location Plan

Legend

-  Digby Island
-  Hays Quarry LOO
-  Mt Hays



Google Earth

© 2018 Google
Image © 2019 CNES / Airbus
Image © 2019 Maxar Technologies

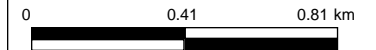
Ridley Island Rd

4 km



Legend

- Integrated Cadastral Fabric
- License Applications - Tanta
- License Tenures - Tantalis -
- Lease Tenures - Tantalis - C
- Lease Applications - Tantalis
- Land Act Survey Parcels - T
- Land Act Survey Parcels - T Descriptions



1: 20,000

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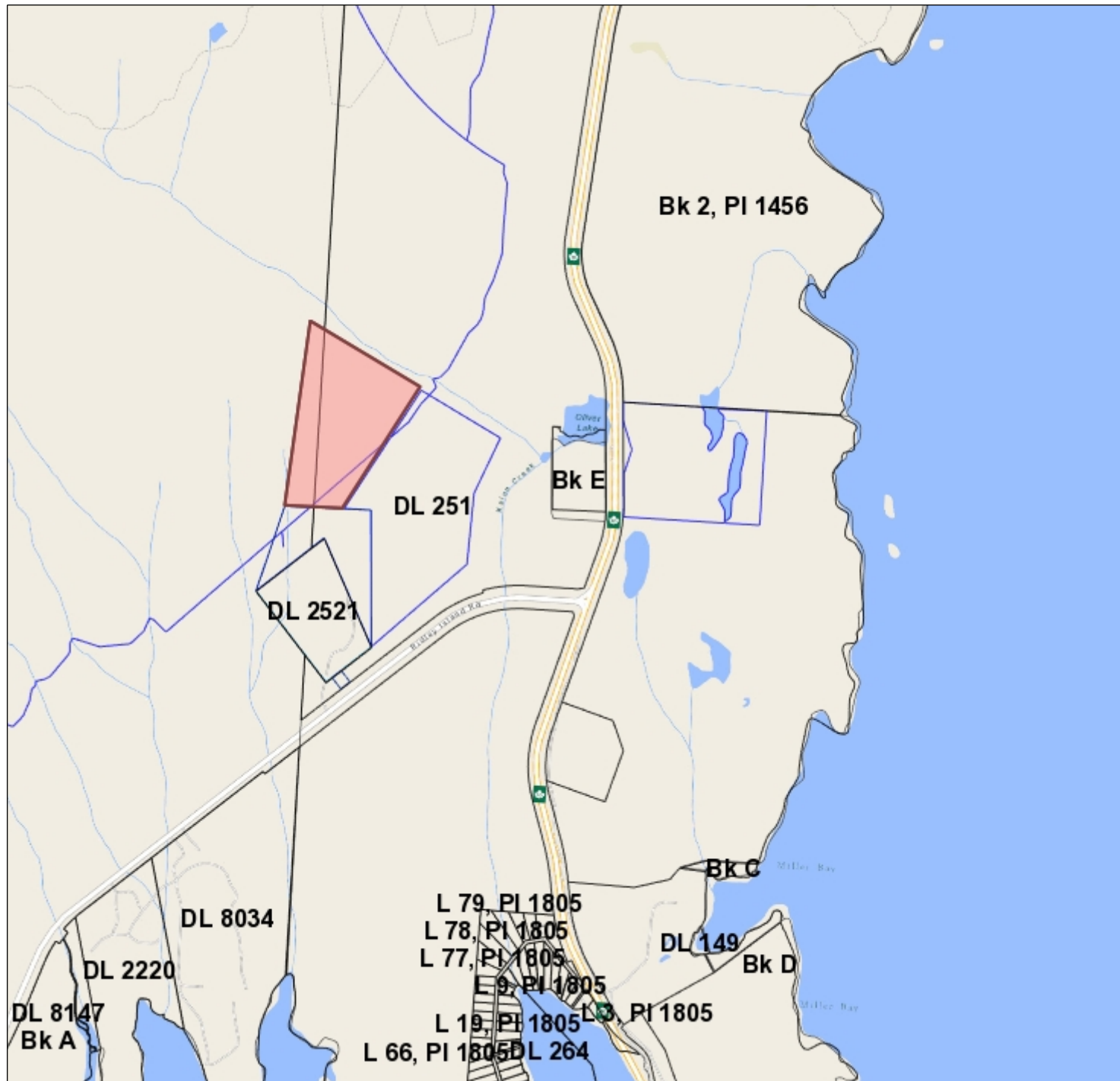
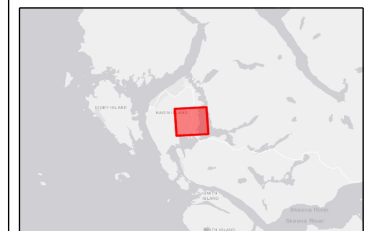
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Datum: NAD83

Projection: NAD_1983_BC_Environment_Albers

Key Map of British Columbia

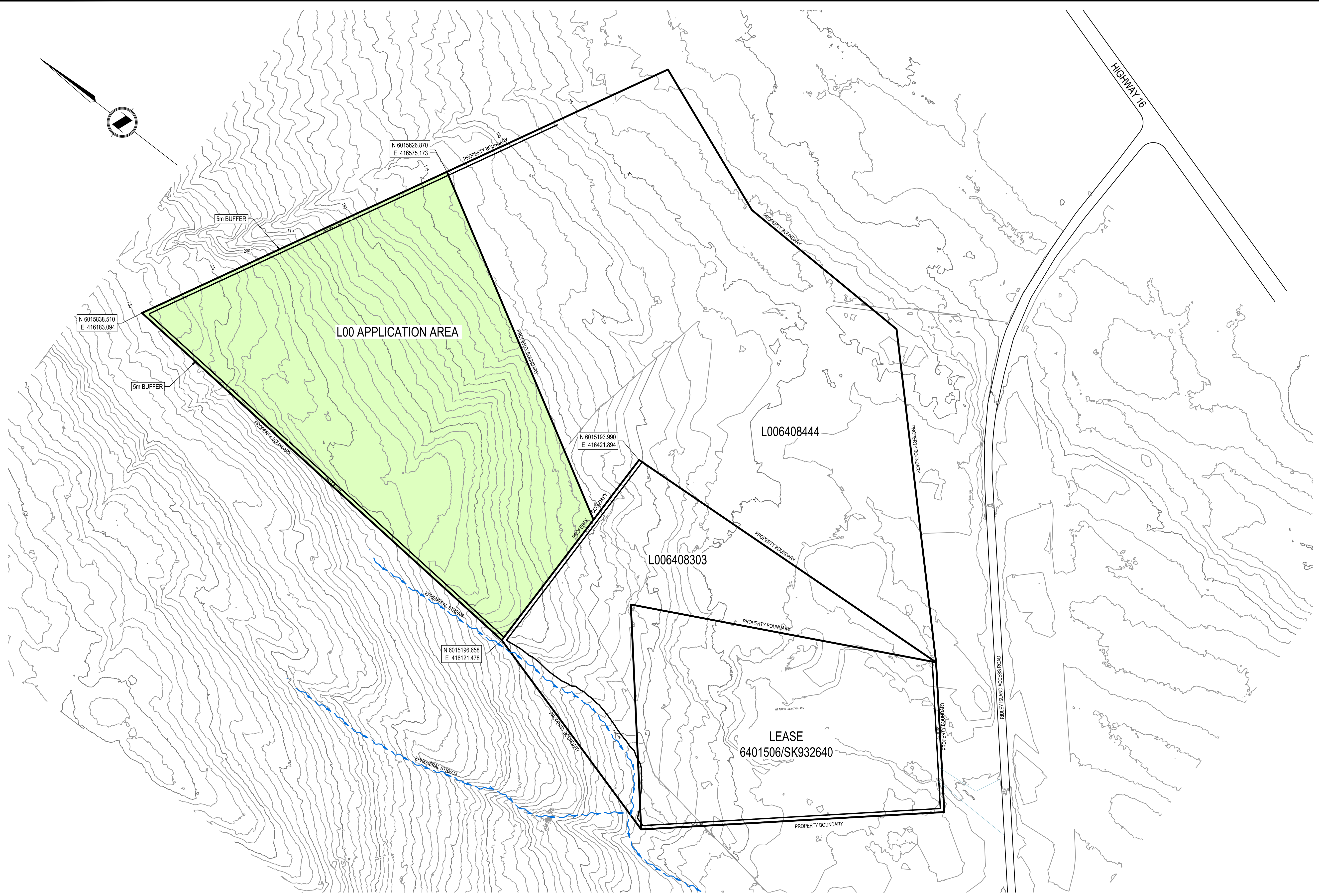


TOTAL AREA OF L00 APPLICATION
17.6Ha

AERIAL SURVEY PERFORMED JULY 19, 2018

CONTOURS AT 5m INTERVALS

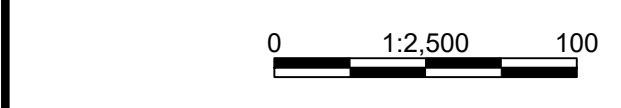
LiDAR DATA FROM 2014



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Approved Sealed

LAX-KW'ALAAMS BUSINESS DEVELOPMENT LP
PRINCE RUPERT

**PROPOSED HAYS QUARRY
SITE PLAN**

Drawing No.
2603-H01

Project Number
2341-02603-00

Rev.
A

| Rev | Date | Description | Drawn | Design | App'd |
|-----|------------|-----------------------|-------|--------|-------|
| A | 2019-11-26 | ISSUED FOR PERMITTING | DMW | DJP | DJP |