DASQUE CREEK HYDROELECTRIC DEVELOPMENT

APPLICATION FOR WATER LICENCE AND CROWN LAND TENURE

PREPARED FOR LAND AND WATER BC

VICTORIA BC

PREPARED

BY

755748 BC LTD.

P.O. Box 23
Postal Station A
Vancouver BC

September 5, 2006

DASQUE CREEK HYDROELECTRIC DEVELOPMENT

APPLICATION FOR WATER LICENCE AND CROWN LAND TENURE

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1.0 WATERPOWER PROJECT APPLICATION COMPLETENESS CHECKLIST

BRITISH COLUMBIA

Waterpower Project Application Completeness Checklist

Water licence and land tenure applications must include the items listed below (Waterpower Project applicants shall refer only to this Checklist as opposed to the Application Completeness Checklist for New Water Licence Application).

Refer to the Guide for Waterpower Projects.

Please be advised that incomplete applications will be returned to the applicant.

(Updated September 2005)

APPLICATION REQUIREMENTS	
Application Form	☑ **Water Application Form** ☑ **Land Application Form (if required)** N/A **Schedule 2: Dam & Reservoir Information (if required)** ☑ **Schedule 3: Power Information**
Application Fee	☑ A cheque or money order for the water licence application must be payable to **Minister of Finance.** ☑ A cheque or money order for the Crown land tenure application must be payable to **Minister of Finance.** (if required) **Separate payment is required for a water licence application and a Crown land tenure**
Maps and Plan	The maps and the plan of the works must be submitted as per the Guide for Waterpower Projects. ☑ General Location Map – at a scale of 1:250,000 to 1:50,000 indicating the location of the project, nearby towns, communities and public transportation routes. ☑ Topographic Map - at a scale of 1:50,000 to 1:20,000 and to include (as per the Guide): • streams and tributaries affected by the project; • all points of diversion; • boundaries of the watershed above diversion points; • the project components; • all existing roads and trails; • sites related to the construction of the project.

APPLICATION REQUIREMENTS	
	☑ Plan of the Works – at a scale of 1:20,000 to 1:5,000 and to include (as per the Guide): • the general arrangement of the components; • cross section and profile of the dams; • total and active volumes of the storage reservoirs; • areas above the natural boundaries of the stream to be flooded; • configuration of the powerhouse, the tailrace channel and the switchyard; • areas required for staging construction and excavation; • active and inactive roads and trails, roads to be constructed or improved; • route and size of transmission line; • boundaries of all parcels of private and Crown land in the vicinity.
	☑ The Crown Land Application Area – indicated with a polygon-shape outlined in red with dimensions and area to include project components on Crown land.
Certificates, Plans and Land Ownership	☐ N/A State of Title Certificates
	☐ N/A Legal Survey Plans
	☐ N/A Legal descriptions of affected adjacent lands
	☐ N/A If the applicant owns the land where the water is proposed to be used, submit the certificate of Title, BC Tax Assessment Notice or Transfer of Sales Agreement
	☐ N/A If you have tenure on Crown land where the water is proposed to be used, submit a copy of the Lease or Licence of Occupation.
Landowner's Consent	☐ N/A If the proposed pipeline or diversion works are on or will cross one or more parcels of land owned or leased by another party, submit a completed Landowner's Consent Form for each parcel affected.
	☐ N/A If such an agreement cannot be obtained indicate how access is proposed e.g., by an interim agreement or Proof of Service Form.

APPLICATION REQUIREMENTS	
Joint Works	☒ N/A If the proposed works will be connected to another licensee's authorized works, refer to **General Information on Joint Works Agreement** and submit a Joint Works Agreement.
Agency Requirements	☑ I have read the Water Applicant's Agency Resource Guide.
Preliminary Project Definition	☑ Summarized from the Guide for Waterpower Projects • Executive Summary • Proponent Identification • Project Description • Capacity of Project • Linkages with Other Projects • Market for Electricity from the Project; and • Schedule for Completion of the Project
Certificate of Incorporation	☑ To be submitted if the applicant is a company

2.0 APPLICATION FOR LAND TENURE

Applying for a Crown Land Tenure

Updated September 2005

THIS PAGE MUST BE COMPLETED FOR ALL APPLICATIONS.

PLEASE READ THE **APPLICATION FORM GUIDE** WHEN COMPLETING THIS APPLICATION.

PART 1. NAME(S) AND MAILING ADDRESS

Client Name ☐ **OR** Company Name ■ **OR** Society Name ☐

0755748 BC LTD.

For applications made by more than one individual:

☐ Joint Tenants; or,

☐ Tenants in Common

Your File Number (if applicable):

Contact Name of Agent (if applicable): Alexander Eunall

Letter of Agency attached (see Form Guide for additional information): Yes ■ No ☐

BC Incorp. No., BC Registered No. or Society No.: BC 755748

GST Registration Number:

Age: 19 or over Yes ■ No ☐

Canadian Citizen or Permanent Resident Yes ■ No ☐

Mailing Address

0755748 BC LTD.
PO BOX 23
Postal Station A
Vancouver BC

Postal Code: V6C 2L8

E-mail Address s.22

Home Phone	Business Phone	Fax Number
( )	(604) 737 3929	( )

Applicant /Agent's Signature(s)

Date

November/30/2006

Please Enclose Appropriate fees (see Fee Schedule http://www.lwbc.bc.ca/01lwbc/leg/fees.html)

NOTE: Make cheque or money order payable to **the Minister of Finance.**

PLEASE RETAIN A COPY OF THIS APPLICATION FOR YOUR RECORDS

FOR OFFICE USE ONLY

RECEIVED
Integrated Land Management Bureau
NOV 03 2006
Ministry of Agriculture and Lands
SMITHERS

Land File Number:	6407834
Disposition ID:	861542
Client No.:	s.21
Company Search (Date):	
Postal Check (Date):	
Fees Received:	3498.00

Applying for a Crown Land Tenure

PART 2. LOCATION, AREA AND PURPOSE

General Location of Crown land

Dasque Creek , 28 km West of Terrace

Area in Hectares: 113

or length (km/m): _____

width (km/m): _____

Land Use Purpose:

Construction and operation of an Intake/weir, buried penstock, surface powerhouse and Transmission line for a Dasque Creek hydroelectric project.

Type of Tenure

- ☐ Investigative permit
- ☐ Temporary permit
- ☐ License
- ☐ Lease
- ■ Statutory right-of-way
- ☐ Purchase
- ■ Waterpower land tenure

Period of Occupation Required 30 years

Do you hold another Crown land tenure? Yes ☐ No ■

If yes, state Type and Tenure Number:

Right of way tenure for Transmission line and Waterpower land tenure for the Intake, Penstock and Powerhouse

PART 3. LEGAL OR BOUNDARY DESCRIPTION

For **surveyed** land, give legal description. For **unsurveyed** land, see the Application Guidebook for instructions to describe unsurveyed Crown land and provide a description of boundaries.

See attached.

NOTE: Please refer to the Requirements Checklist for the specific program (e.g., Aggregates) for additional information that must be submitted with this application.

The information you provide will be subject to the Freedom of Information and Protection of Privacy Act. If you have any questions regarding the treatment of your personal information, please contact the Manager, Privacy, Information Access and Records Management.

In addition, the submission of this form does not in any manner convey any rights to use or occupy Crown land.

3.0 APPLICATION FOR A WATER LICENCE

BRITISH COLUMBIA

Applying for a Water Licence

Updated September 2005

THIS PAGE MUST BE COMPLETED FOR ALL APPLICATIONS.

PLEASE READ THE **APPLICATION FORM GUIDE** WHEN COMPLETING THIS APPLICATION.

PART 1. NAME(S) AND MAILING ADDRESS

Client Name ☐ **OR** Company Name ■ **OR** Society Name ☐

0755748 BC LTD.

For applications made by more than one individual:

☐ Joint Tenants; or,

☐ Tenants in Common

Your File Number (if applicable):

Contact Name of Agent (if applicable): Alexander Eunall

BC Incorp. No., BC Registered No. or Society No.: BC0740462

GST Registration Number:

Mailing Address
755748 BC LTD.
PO Box 23
Postal Station A
Vancouver BC

Postal Code: V6C 2L8

E-mail Address

s.22

Home Phone	Business Phone	Fax Number
( )	(604) 737 3929	( )

Applicant /Agent's Signature(s)

Date

November/30/2006

Please Enclose Appropriate fees (see Fee Schedule http://www.lwbc.bc.ca/01lwbc/leg/fees.html)

NOTE: Make cheque or money order payable to **the Minister of Finance.**

The information you provide will be subject to the Freedom of Information and Protection of Privacy Act. If you have any questions regarding the treatment of your personal information, please contact the Manager, Privacy, Information Access and Records Management.

In addition, the submission of this form does not in any manner convey any rights to use or occupy Crown land.

PLEASE RETAIN A COPY OF THIS APPLICATION FOR YOUR RECORDS

FOR OFFICE USE ONLY

Date Received

RECEIVED
Integrated Land Management Bureau
NOV 03 2006
Ministry of Agriculture and Lands
SMITHERS

Water File Number: 6000731

Client Number: s.21

Application Number: 2122464

Map Number: 103I/SE

Fees Received: $5000.00

Receipt Number:

BRITISH COLUMBIA

Applying for a Water Licence – Water Act

NOTE: Once you have completed this form, please refer to the **Application Completeness Checklist** at http://www.[illegible]gov.bc.ca/wsd/water_rights/licence_application/cabinet/app_complete_cl.pdf for additional information that must be submitted with this application.

PART 2. PLACE OF USE – LEGAL DESCRIPTION OF PROPERTY WHERE WATER IS TO BE USED

PID #

Land description:
Dasque Creek, Crown land

Civic address of the property:
N/A

An applicant must have tenure to the land where water will be used.
(Provide copies of Certificate of Title, Recent Tax Notice or Crown Land Tenure.)

Are you the Registered Owner?
Yes ☐ No ■ Lessee ☐ Other ☐

Do you hold another water licence(s)?
Yes ☐ No ■ If yes, state Licence Number: _____ File Number: _____ Client Number: _____

PART 3. PURPOSE(S) AND QUANTITY(IES) – Please refer to Schedule 1 (http://www.env.gov.bc.ca/wsd/water_rights/licence_application/cabinet/fees-water.pdf) – *Water Purpose and Application Fees*

Domestic:
Number of dwellings: _____
Quantity (m^3 per day or Gallons) _____

Other:
Power Generation _____ Quantity: 7 Unit: m^3/s
_____ Quantity: _____ Unit: _____

Irrigation:
Quantity: _____ Unit: _____
Number of acres to be irrigated: _____

Stockwatering:
Quantity: _____ Unit: _____
Number of stock: _____ Type of stock: _____

Note: For Water Licence application with proposed diversion rate over 100 m^3 (25,000 gallons) a day, a Development Plan must be completed.

PART 4. SOURCE OF WATER

Name of Source: Dasque Creek

Flows into: Dasque Creek

If creek, brook or river, width and depth of source at diversion point: 8 m wide/ 1.2 m high

PART 5. WORKS–Existing or proposed to divert and convey water to place of use (works must be shown on drawing)

List Works

a) Diversion Works
- Pump ☐ or Gravity Feed ■
- Length of pipe into a river or lake measured from the high water mark: _____ m or _____ ft
- Are any of the Works on Crown land? Yes ■ No ☐
- Length of Works on Crown land: _____ m or _____ ft

b) Storage Works
- Do you require storage? Yes ☐ No ■
- If yes, complete and attach Schedule 2 - Dam & Reservoir Information http://www.env.gov.bc.ca/wsd/water_rights/licence_application/cabinet/sched2.pdf
- List Storage Works: _____

c) Additional Information
- Joint with another's Works? Yes ☐ No ■
- If yes, with whom?
- Works constructed? Yes ☐ No ■ Partially ☐
- **Use of a Joint Works Agreement is recommended if part or all of your proposed works will be shared with other water licence holder(s).**
- **Enclosed: Yes ☐ No ☐**

PART 6. OTHER LANDS PHYSICALLY AFFECTED BY WORKS

Do or will the Works occupy or flood another person's private land? Yes☐ No☐

Landowner's Consent Form for private land affected
Enclosed: Yes ☐ N/A ■
Could not obtain ☐

Do or will the Works occupy or flood Crown land?
Yes■ No☐

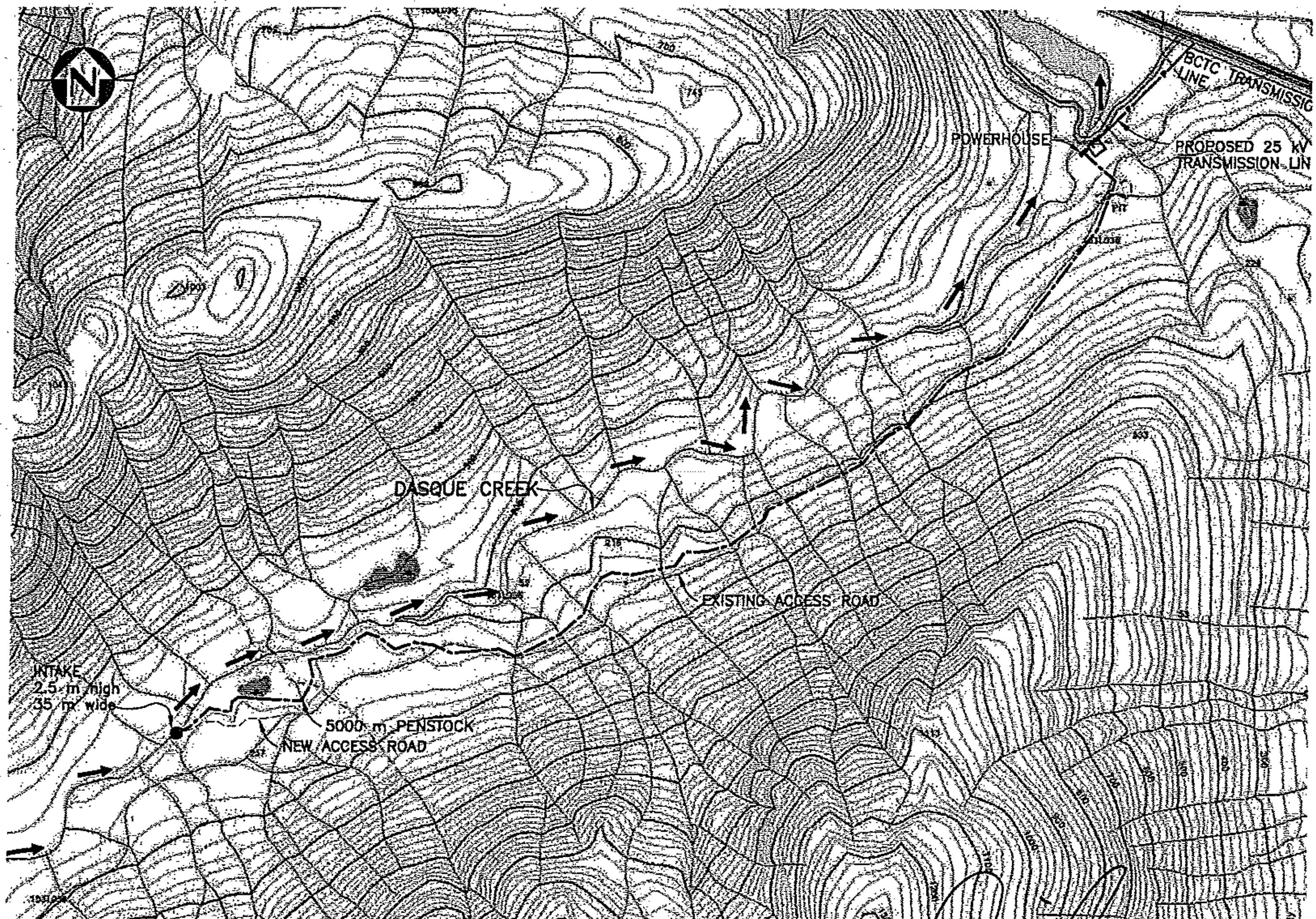
If Yes, PCL fee required with application

If yes to either question, provide the legal description of land affected

Name of Owner(s) including Crown land tenure holders

WATER LICENCE APPLICATION DRAWING

APPLICANT'S DRAWING – Prepare a drawing to submit with your application. Refer to the required drawing standards for required elements.



SCALE 250 0 250 500 750 1000 1250 m

Scale: 1: 25 000

Applicant's Signature: [signature]

Legend:

Date: November/30/2006

Point of Diversion ●

Pipe — · — · — · —

The boundaries of the land to which this licence is appurtenant are shown thus ▬▬▬

For Office use Only

Land District: RANGE 4 COAST DISTRICT

Map: 1031036 POD:

Water District: PR Precinct: TERRACE

BRITISH COLUMBIA

Economic Impacts For Water Licence Applications

Applications for domestic water or small irrigation purposes (less than 6000m^3 (5 AF)/year) do not need to complete this information.

In an effort to more fully appreciate the positive impacts of economic development for a wide variety of uses please provide the following information for your water licence application request:

Capital Investment	**$ 27, 000, 000**

Capital Investment – Reflects the **expenditures** anticipated to be spent in the near future (next 3 years) including:

- Off-site and on-site services that are directly attributable to development related to the water licence (engineering, design, etc.)
- Construction costs directly related to the water licence (pumps, pipes, earthworks, labour, etc.)

Permanent Jobs	1

Permanent Jobs – Measure of the number of ongoing jobs created in the operating and maintenance of the ongoing water use. Use decimals where appropriate.

This information is required before your water licence application can be processed.

4.0 SCHEDULE 3 – POWER INFORMATION

BRITISH COLUMBIA

SCHEDULE 3
POWER INFORMATION

REQUIRED IN SUPPORT OF A WATER LICENCE APPLICATION FOR POWER PURPOSE

1. WATER LICENCE APPLICATION INFORMATION

FOR OFFICE USE ONLY

PURPOSE: Residential ☐ Commercial ■ General ☐

Date Received

RECEIVED
Integrated Land Management Bureau
NOV 03 2006
Ministry of Agriculture and Lands
SMITHERS

SURNAME	GIVEN NAME(S)
755748 BC LTD.	

MAILING ADDRESS
755748 BC LTD.
PO Box 23
Postal Station A
Vancouver BC

POSTAL CODE V6C 2L8

E-MAIL ADDRESS aeunall@shaw.ca

HOME PHONE	BUSINESS PHONE	FAX
	604 737 3929	

FILE NUMBER

SOURCE(S) OF WATER (NAME OF STREAM WHERE WORKS ARE TO BE CONSTRUCTED) Dasque Creek

PROJECT CONSULTANT (IF ANY)
Amnis Engineering Ltd.

MAILING ADDRESS
#551 – 409 Granville Street
Vancouver, BC

POSTAL CODE	PHONE	FAX
V6C 1T2	(604) 682 1063	(604) 682 1064

2. GENERAL PROJECT INFORMATION – Please complete entire section.

ANTICIPATED POWER PRODUCTION	MAXIMUM 9000 kW	MINIMUM 0 kW	AVERAGE 4500 kW
MAXIMUM STREAM FLOW REQUIRED 7.5 m^3/s	FLOW RATE 7 m^3/s		
POWER PRODUCED FOR	Indicate how the power will be used. Check all that apply. ▶	a) PERSONAL USE ☐ b) SALE TO OTHERS ☐	c) SALE TO BC HYDRO & POWER AUTHORITY ■ d) SALE TO OTHER POWER AUTHORITY ☐

3. PROPOSED WORKS – Please complete where applicable for your project.

a) STORAGE DAM

HEIGHT	LENGTH	TYPES OF CONSTRUCTION MATERIALS
2.4 m	40 m	Concrete and Steel

b) RESERVOIR

STORAGE CAPACITY	FLOODED AREA	
dam^3 0 or m^3	1 ha	◀ If a dam is incorporated please complete **Schedule 2** – *Dam & Reservoir Information.*

c) INTAKE

DESCRIPTION Coanda Screen Intake

FISH SCREENS Coanda Screen

OTHER FEATURES IFR Release Pipe

d) PENSTOCK

FLUME, PIPE, TUNNEL, ETC. – DESCRIPTION Weholite and Welded Steel Pipe

LENGTH	WIDTH/DIAMETER	DEPTH (IF FLUME)	PRESSURE RATING (IF PIPE)
5000m	1.5 to 1.7 m	N/A cm	200 kPa

ELEVATIONS – UPPER END	ELEVATIONS – LOWER END	
230 m	60 m	◀ Elevations may be expressed as heights above the level of the turbine.

e) TURBINE

TYPE Twin Jet Turgo — RATING 2 x 4500 kW

f) GENERATION

TYPE Horizontal Synchronouse — RATING 2 x 5000 kVA

g) TAILRACE

FEATURES Concrete Channel

DISCHARGES TO Dasque Creek

h) OTHER EQUIPMENT

STORAGE BATTERIES, ETC. – DESCRIPTION

5.0 APPLICATION FEES

BRITISH COLUMBIA

SCHEDULE 1
WATER APPLICATION FEES
(effective June 1, 2003)

GST not applicab Cheque or money order made payable to **Minister of Finance**

(Updated September 2005)

DOMESTIC USE

Water used for **domestic household purposes**, including watering a garden up to **1,012 square metres** (approx. 1/4 acre) in area. Generally, one household requires **2,250 litres** or **2.25 cubic metres** (approx. 500 gallons) a day.

Fee: $100.00

Associated Industrial Purposes

Camps
Churches or community halls
Exhibition Grounds
Institutions
Public Facilities
Residential lawn or garden watering if area exceeds **1,012 square metres** (approx. 1/4 acre) in area.
Swimming Pools
Work Camps

Fee: $150.00 (for each purpose)

AGRICULTURAL USE

to irrigate less than **5 hectares** (approx. 12.35 acres)

Fee: $100.00

to irrigate **5 hectares** to less than **50 hectares**
(approx. 12.35 acres to less than 123.5 acres)

Fee: $150.00

to irrigate **50 hectares** (123.5 acres) or more

Fee: $400.00

water conveyed by a local authority for irrigation

Fee: $400.00

Associated Industrial Purposes

Crop Suppression
Flood Harvesting
Frost Protection
Game Farms
Greenhouses
Kennels
Nurseries
Ponds
Stockwatering
Watering of golf courses, ornamental gardens, parks or similar properties

Fee: $150.00 (for each purpose)

AQUACULTURE

Fish Hatcheries

Fee: $150.00

INDUSTRIAL & COMMERCIAL USE

Amusement parks
Bottling fresh water for sale less than **200 cubic metres** (approx. 43,993 gallons) a day
Brake cooling
Cooling
Dewatering
Dust control
Effluent dilution
Enterprise, which includes hotels, motels, trailer parks, stores, service stations, restaurants, or similar commercial enterprises
Film processing plants
Fire prevention
Fire protection
Garbage dumps
Heat exchangers
Ice making
Log fluming
Mineral baths or trading
Overburden disposal
Processing, which includes food processing plants, manufacturing operations, sawmills and washing sand or gravel
Road maintenance
Sediment control
Sewage disposal
Shipyards
Snowmaking
Truck washing
Tunnelling
Washing intake screens
Wharves

Fee: $500.00 (for each purpose)

Bottling fresh water for sale of **200 cubic metres** (approx. 43,993 gallons), or more a day

Fee: $2,000.00

Pulp mills

Fee: $10,000.00

MINING & OIL

Mining equipment
Oil field injection
Placer mining
Pressure testing and flushing

Fee: $500.00 (for each purpose)

Hydraulic mining
Processing of ore
Washing coal

Fee: $5,000.00 (for each purpose)

CONSERVATION & LAND IMPROVEMENT USE

Water used or stored, or works constructed, for the purpose of **conserving** fish and wildlife.

Diverting or impounding water to protect property or facilitate development of a park or reclaiming, draining or making other **improvements to land.**

Fee: $150.00

WATERWORKS & CONVEYING USE

All applications **conveyed for waterworks** by a person **other than a** local authority.

Conveyed by a **local authority** for waterworks, less than **100,000 cubic metres** (approx. 21,996,900 gallons) a year.

Water **delivered** within British Columbia.

Fee: $500.00

Conveyed by a **local authority** for waterworks, **100,000 cubic metres** to less than **5,000,000 cubic metres** (approx. 21,996,900 to less than 1,099,850,000 gallons) a year

Fee: $2,000.00

Conveyed by a **local authority** for waterworks, of **5,000,000 cubic metres** (approx 1,099,850,000 gallons) or more a year

Fee: $10,000.00

STORAGE PURPOSE

less than **125,000 cubic metres** (approx. 101.3 acre-feet) stored.

Fee: $150.00

125,000 cubic metres to less than **1,250,000 cubic metres** (101.3 acre-feet to less than 1,013.3 acre-feet) stored.

Fee: $400.00

1,250,000 cubic metres (1,013.3 acre-feet) or more stored.

Fee: $2,000.00

POWER PURPOSE

Residential (Self-supplied) Waterpower

Water that is used to generate power for residential use (up to **25 kW** for one household)

Fee: $100.00

Commercial Waterpower

Up to **499 kW**, of which less than 5% of energy may be sold

Fee: $5,000.00

General Waterpower

Water that is used to generate power for a power plant, which produces up to **20 MW**

Fee: $5,000.00

Water that is used to generate power for a power plant, which produces over **20 MW**

Fee: $10,000.00

PERMITS TO OCCUPY CROWN LAND

Affecting less than **0.5 hectares** (approx. 1.23 acre)

Fee: $100.00

Affecting **0.5 hectares** to less than **50 hectares** (approx. 1.23 acres to less than 123.5 acres)

Fee: $500.00

Affecting **50 hectares** (approx 123.5 acres) or more

Fee: $2,000.00

TO AMEND A WATER LICENCE

A request to amend a licence or approval under section 18 of the *Water Act.*

The transfer of appurtenancy of any licence (payable by each recipient of transferred rights upon issue of licence.

An apportionment of a licence (payable by each recipient or rights, upon issue of licence)

Fee: $100.00

To amend water licences issued for the following purposes: **Industrial & Commercial, Mining,** large **Storage** over **1,250,000 cubic metres** (approx. 1,013.3 acre-feet) stored, **Waterpower,** and **Waterworks.**

Fee: $500.00

APPROVALS, STREAM CHANGES & SHORT TERM USE

Changes in and About a Stream

Fee: $130.00

Short Term Water Use

The fee for short term water use as set out in Part 1 of the water tariff, plus the annual rent for the proposed use - as set out in Part 2 of the water tariff.

BRITISH COLUMBIA

LAND TENURE PURPOSE AND APPLICATION FEES (effective June 1, 2003)

APPLICATION FEES ARE DUE WHEN THE APPLICATION IS SUBMITTED
(Note: Items indicated with * are billed at a later date)
(GST included where applicable)

(Updated July 2006)

APPLICATION FEES

AGRICULTURE
Application fee ($250.00 + GST) $265.00

AIRPORT
*Application fee ..... $50.00/hr + GST of staff time
..... minimum fee $25.00 + GST

ALPINE SKIING
Type 1 minor operation ($1,000.00 + GST) $1,060.00
*Type 2 major operation ..... $50.00/hr + GST of staff time
..... minimum fee $25.00 + GST

AQUACULTURE (Shellfish and Finfish)
Application fee ($4,925.00 + GST) $5,220.50

COMMERCIAL RECREATION
Non-mechanized uses ($250.00 + GST) $265.00
Mechanized uses ($3,300.00 + GST) $3,498.00

COMMUNICATION SITE
Application fee ($1,000.00 + GST) $1,060.00

FEDERAL RESERVES/TRANSFERS
Application fee ($3,300.00 +GST) $3,498.00

FERRY TERMINALS
Other than general commercial or general industrial use
*Application fee ..... $50.00/hr + GST of staff time
..... minimum fee $25.00 + GST

FILM PRODUCTION
Application fee ($500.00 + GST) $530.00

GENERAL COMMERCIAL
Excluding film production, marinas, golf courses
Application fee ($250.00 + GST) $265.00

GENERAL INDUSTRIAL
Excludes log handling, quarrying, energy and mining
Application fee ($500.00 + GST) $530.00

GOLF COURSE
Application fee ($3,300.00 + GST) $3,498.00

GRAZING
Application fee ($250.00 + GST) $265.00

HEAD LEASES
*Application fee ..... $50.00/hr + GST of staff time
..... minimum fee $25.00 + GST

INSTITUTIONAL AND COMMUNITY
Application fee ($250.00 + GST) $265.00

INVESTIGATIVE PERMITS
Application fee ($500.00 + GST) $530.00

LOG HANDLING
Application fee ($1,000.00 + GST) $1,060.00

MARINA
Application fee ($500.00 + GST) $530.00

MINING
Excludes alternative power projects
Application fee ($500.00 + GST) $530.00

OIL AND GAS
Excludes alternative power projects
Application fee ($500.00 + GST) $530.00

PRIVATE MOORAGE
Application fee ($250.00 + GST) $265.00

PUBLIC AND PRIVATE UTILITIES
Linear utilities less than 25 km long
Application fee ($1,000.00 + GST) $1,060.00

Linear utilities 25 km or longer
*Application fee ..... $50.00/hr + GST of staff time
..... minimum fee $25.00 + GST

QUARRYING (Aggregates)
Application fee ($1,000.00 + GST) $1,060.00

RESIDENTIAL
Application fee ($250.00 + GST) $265.00

TRANSPORTATION/ROADWAYS
Public use, excluding ferry terminals and airports
Application fee ($250.00 + GST) $265.00

Industrial use or private use, excludes ferry terminals and airports ($1,000.00 + GST) $1,060.00

WATERPOWER
Application fee ($3,300.00 + GST) $3,498.00

WIND POWER
Application fees for:
- Investigative Permit ($500.00 + GST) $530.00
- Up to 5 monitoring towers ($500 + GST) $530.00
- Windfarm ($3,300.00 + GST) $3,498.00

REPLACEMENT OF TENURE

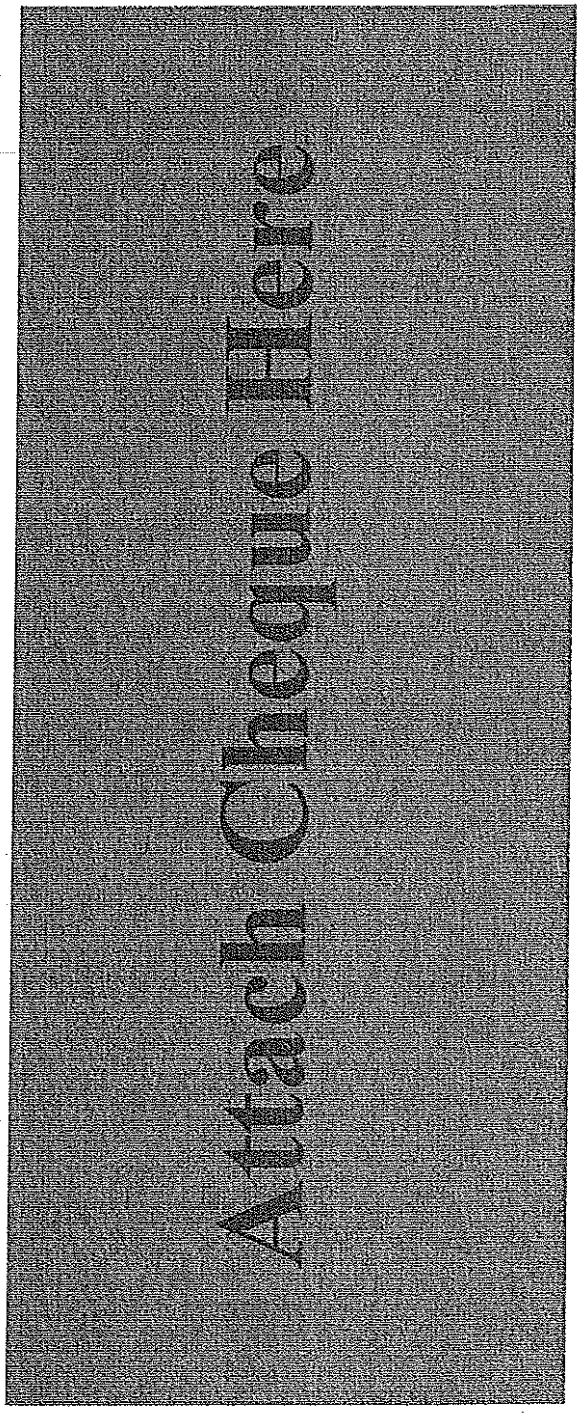
50% of application fee or $212.00 ($200.00 + GST) whichever is more

Waterpower

The specified application fee in accordance with the attached fee schedule is as follows:

$3,300.00 + GST.....$3,498.00

Cheque is payable to ..... 'Land and Water British Columbia Inc.'

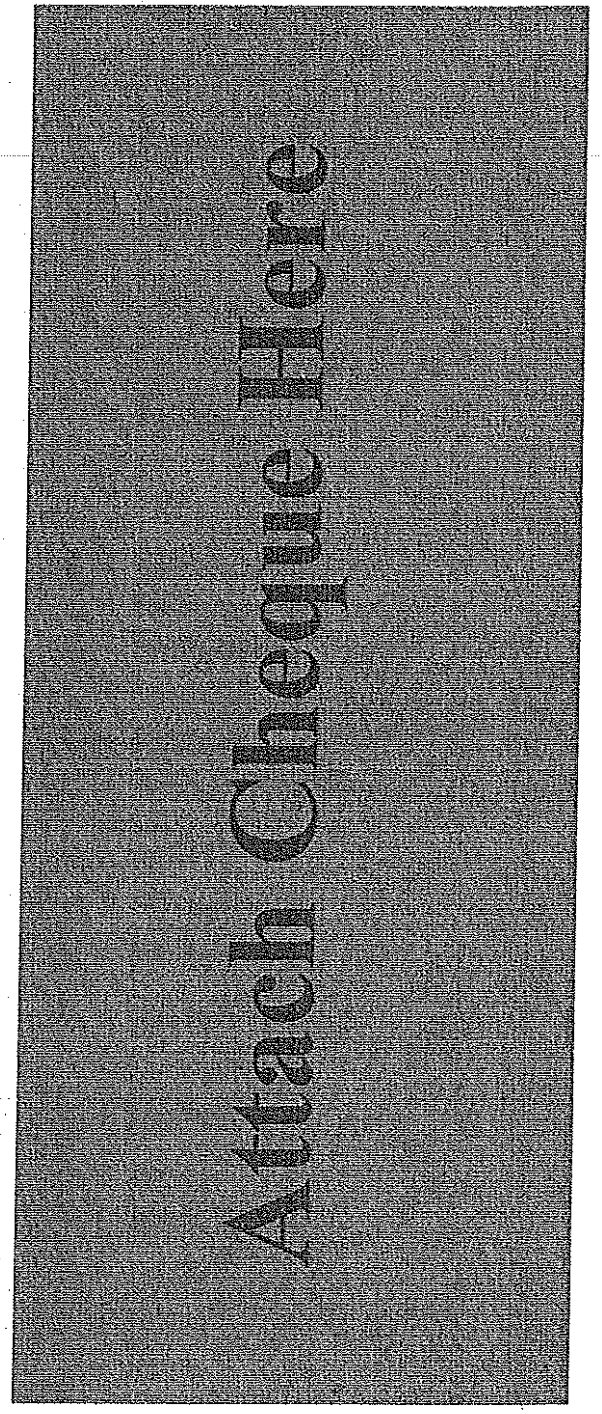


Power Purpose – General Waterpower (<20MW)

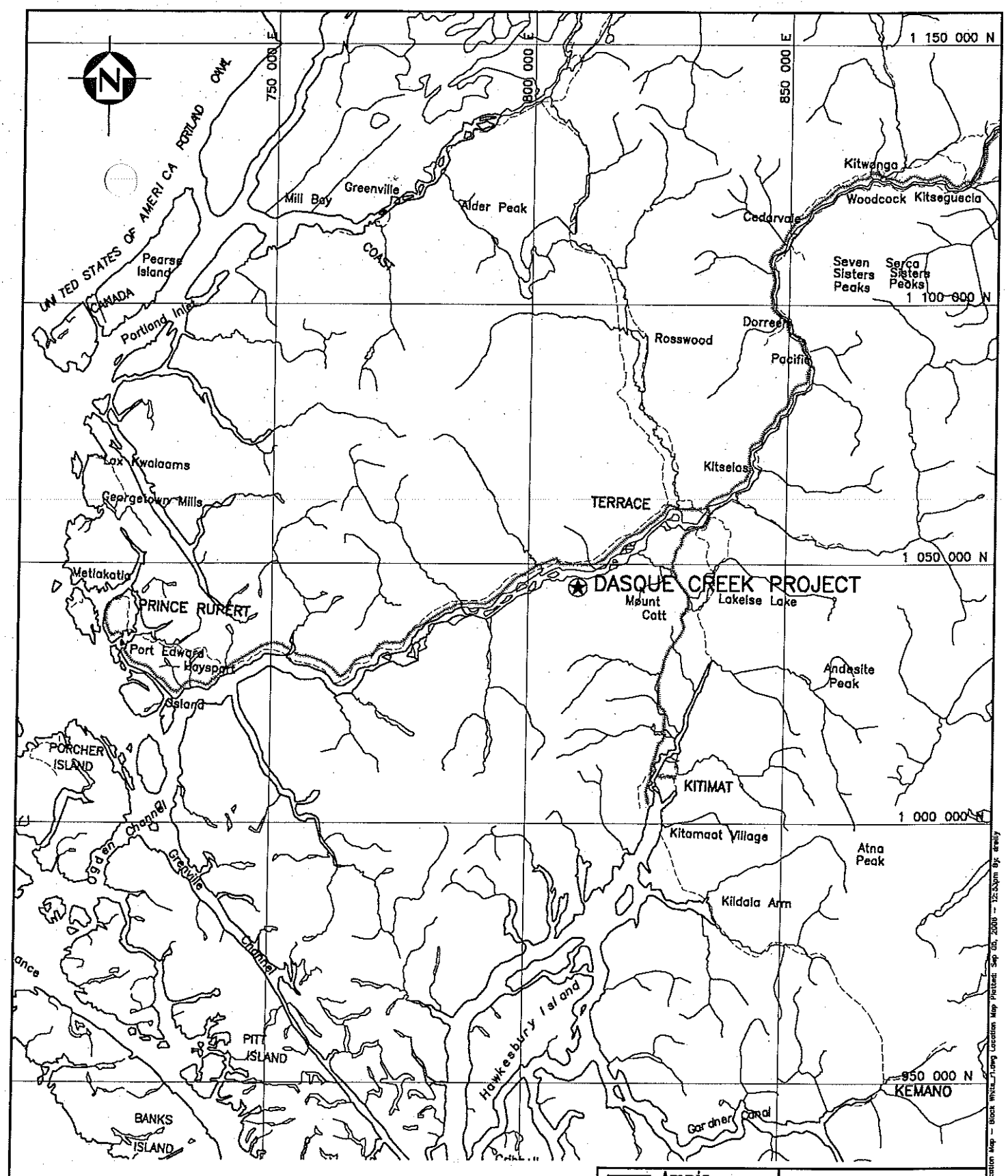
The specified application fee in accordance with the attached fee schedule is as follows:

$5,000.00 No GST $5,000.00

Cheque is payable to ..... 'Land and Water British Columbia Inc.'



6.0 PROJECT LOCATION MAP



NOTE

1. Grid shown is BC Albers.

Scale 10 0 10 20 30 40 50 km

Amnis Engineering Ltd.	755748 BC LTD
DASQUE CREEK HYDROELECTRIC PROJECT	
PROJECT LOCATION MAP	
SCALE 1:1 000 000	FIGURE NO. FIGURE 1
REVISION 1	

CAD FILE: P:\0087\01\Cad\Figure size\02 Location Map - Black White_1.dwg Location Map Plotted: Sep 05, 2008 - 12:53pm By: dreilly

7.0 WATER DEVELOPMENT PLAN

Amnis Engineering

755748 BC LTD.

DASQUE CREEK HYDROELECTRIC DEVELOPMENT

WATER DEVELOPMENT PLAN
REF NO. 0067/01

Prepared

By

AMNIS ENGINEERING LTD.

September 5, 2006

TABLE OF CONTENTS

DASQUE CREEK HYDROELECTRIC PROJECT
WATER DEVELOPMENT PROJECT

1. INTRODUCTION

Amnis Engineering Ltd. was retained 755748 BC LTD to prepare this Water Development plan as part of the Water License Application.

The Dasque Creek Hydroelectric Project is located on the West Coast of BC, it is a tributary of the Skeena River and it is approximately 18 km west of Terrance. The watershed has a maximum elevation of 2219 masl, Mt Valpy, and it outlet to the Skeena River is approximately at elevation 30 masl .

The philosophy of designing this project is to maximize the potential of the resource and minimize the environmental impact of the project; as well as to mitigate any social issues that may arise.

The project comprises of an intake structure at elevation 230 masl and a powerhouse at elevation 60 masl.

The plant will generate power and energy for BC Hydro.

2.0 DESIGN ASPECTS

The general arrangement of the project is shown in **Figure 3.**

2.1 Intakes

The intake will be located at approximate elevation 230 masl. It will be 40 m wide Coanda Screen Intake. The flow after passing through the screen will be directed to concrete headrace structure where the IFR will be taken from and where the inlet to the penstock will be located.

2.2 Penstocks

The project will consist of a 3400 m long buried low pressure pipeline. This is expected to be 72 inch and 60 inch diameter buried Weholite Pipe (HDPE). The remaining 1600 m will consist 66 inch diameter bell and spigot welded steel pipe. The steel penstock will be buried its full length. The steel penstock will be coated both on the inside and out. The penstock will follow the existing Forestry Road alignment.

The penstock will have manholes installed every 500 m.

2.3 Powerhouse

The powerhouse will be located approximately 1000 m upstream of the outlet to the Skeena River. It will house two horizontal turgo turbines that will be connected to generators with 4.5 MW capacity each or 5 MVA. TIV valves will be installed to allow the stoppage of flows to the turbines during emergency conditions.

2.4 Tailrace

The powerhouse will discharge its flow back into the Dasque River, the normal tailwater level will be 60 masl.

2.5 Access Roads

There will be no new access roads. The existing foresty road will be upgraded as required.

2.6 Switchyard and Transmission Lines

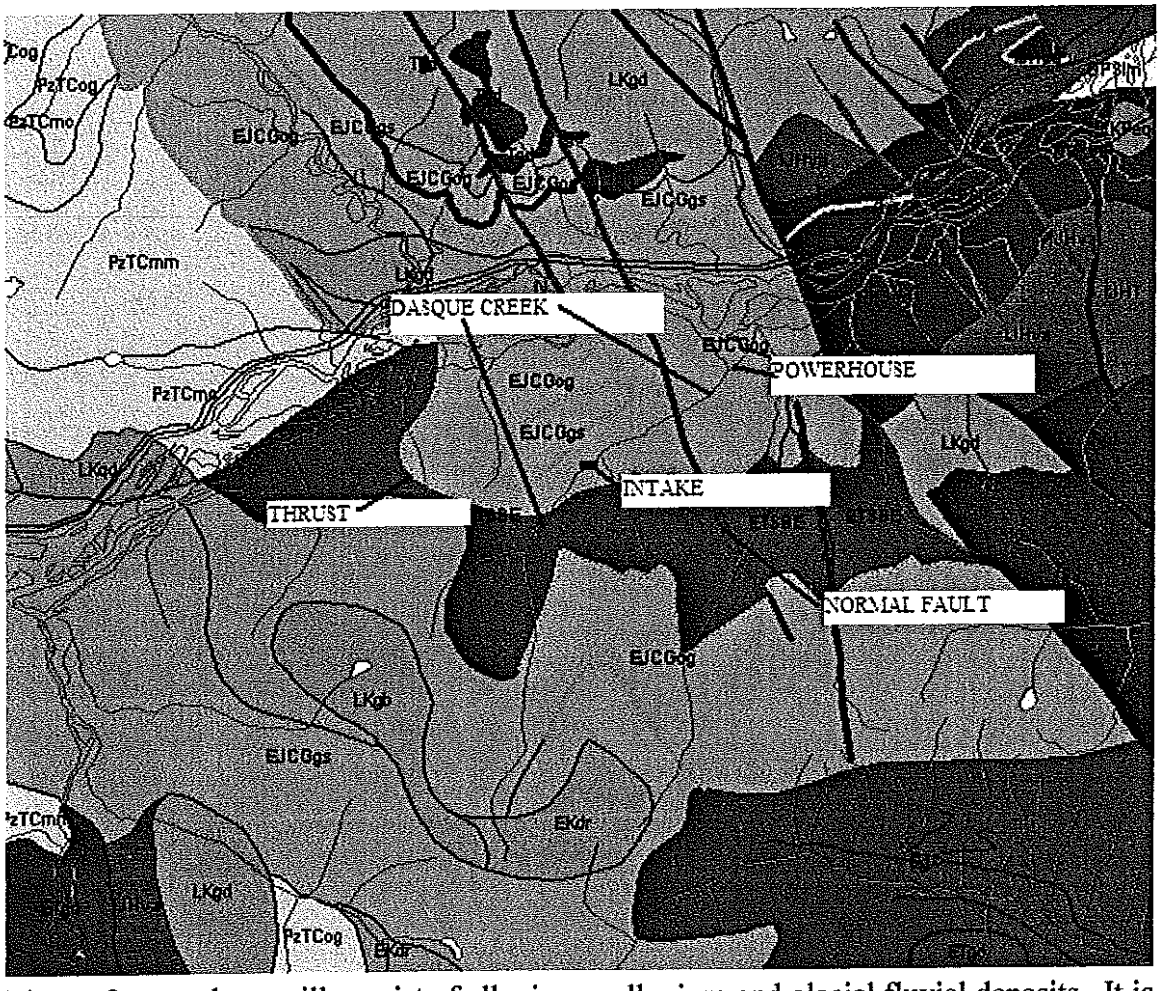
The generation from the power plant will be stepped up via 10 MVA transformers to interconnect to 230 kV BCTC line that is 596.9 m from the powerhouse.

3. RESERVOIR INFORMATION

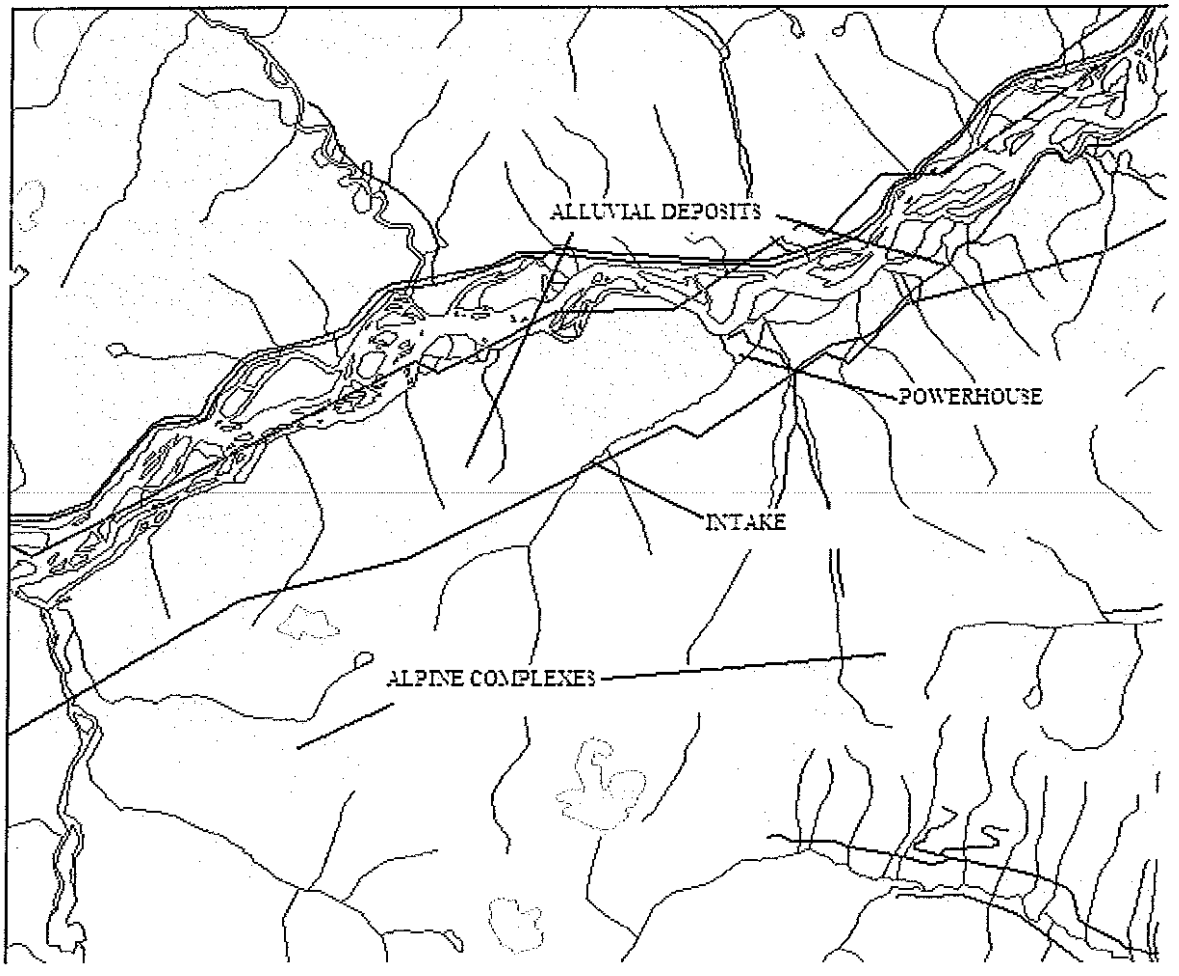
This section is not applicable to this project.

4. GEOTECHNICAL CONSIDERATIONS

The project will be on Early Jurassic Central Gneiss Complex, Orthogneiss Metamorphic Rock. As shown below.



The surface geology will consist of alluvium, colluvium and glacial fluvial deposits. It is expected that bedrock is close to the surface, the depth depending on the location.


ALLUVIAL DEPOSITS
POWERHOUSE
INTAKE
ALPINE COMPLEXES

5. SEISMIC CONSIDERATIONS

The Pacific Coast is the most earthquake-prone region of Canada. In the offshore region to the west of Vancouver Island, more than 100 earthquakes of magnitude 5 or greater (large enough to cause damage had they been closer to land) have occurred during the past 70 years. The reason for the concentration of earthquakes along the west coast is the active faults, or breaks in the earth's crust that occur in this area.

The west coast of Canada is one of the few areas in the world where four tectonic plates meet and interact, and three different types of plate movements take place, resulting in significant earthquake activity. Plates move towards each other at converging, apart at diverging and past each other at transform boundaries. All three of these boundary types occur in offshore B.C.

About 200 kilometers off the west coast of Vancouver island, the Juan de Fuca plate and Pacific plate are diverging or spreading apart along the Juan de Fuca ridge. Further east, the Juan de Fuca plate is converging with and sliding (subducting) beneath the North American plate at about 2-5 cm/year. This region is called the Cascadia subduction zone. It is located about 45 km beneath Victoria, and about 70 km beneath Vancouver. Another small plate, the Explorer, is also sliding underneath the North American plate, and at the same time the Juan de Fuca plate is sliding along the Nootka fault. In the north, there is a major transform fault boundary between the Pacific and the North American plates called the Queen Charlotte fault. This fault was the site, in 1949, of Canada's largest earthquake.

The National Building Code of Canada (NBC) has zoned the various areas of Canada with regards to seismicity. Each seismic zone is characterized with Zonal Acceleration (**Za**) and Zonal Velocity (**Zv**) factor. Two seismic zoning maps, one based on the **Za** factor, and the other based on the **Zv** factor, are included in the 1995 National Building Code of Canada.

Based on these maps, the Dasque Creek Hydroelectric Development falls under Seismic Zone 4 for peak horizontal velocity and Seismic Zone 3 for peak horizontal acceleration; out of a maximum rating of 6 and a minimum rating of 0.

The design earthquake will be further evaluated during the final design of the project.

6. PROJECTED RELATED CONSIDERATIONS

The projects will run as run of river projects. There will be no use of storage on this project. The water levels will be operated to within 10 cm of the design water level under normal operations. The water levels though may increase in the existing lakes, as they would naturally during flood periods.

7. LAND RELATED ISSUES

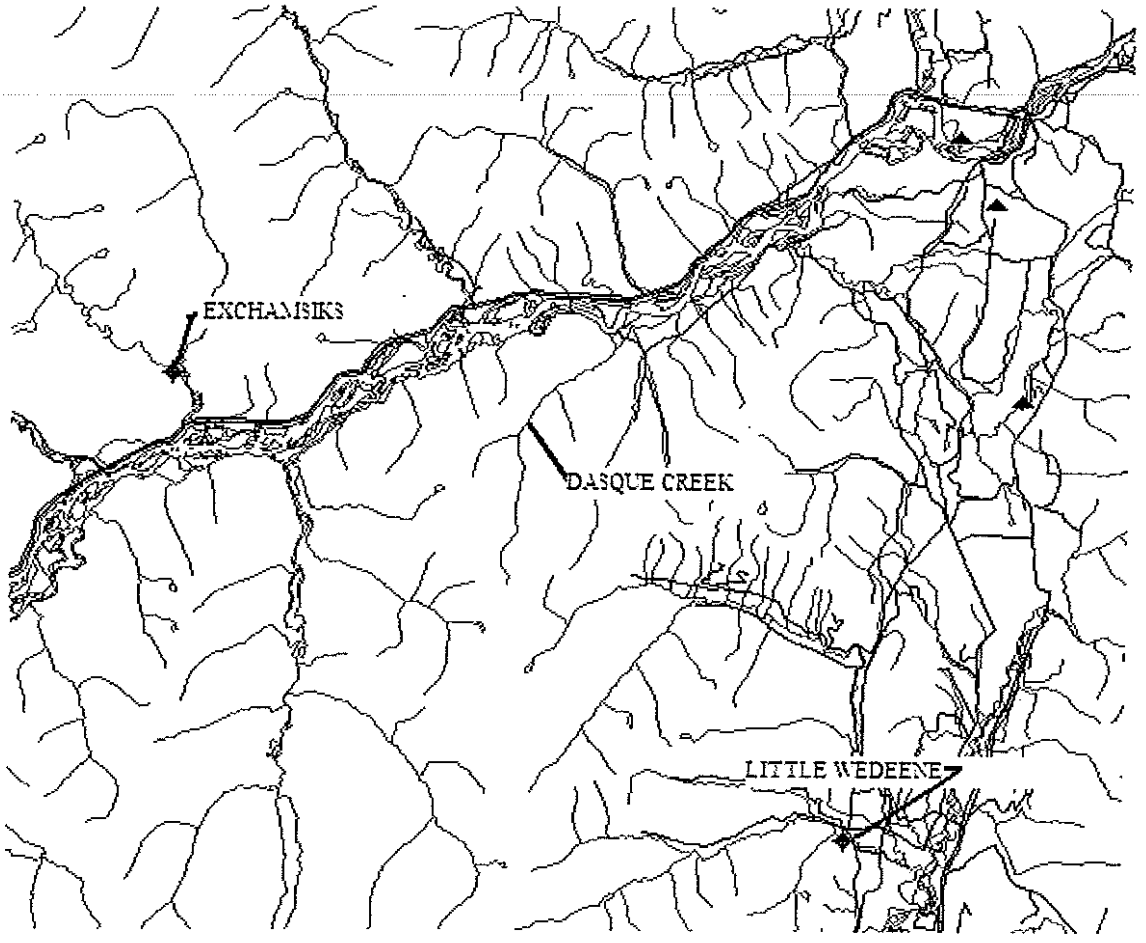
7.1 Affected Lands

The project will be constructed on Crown Land.

8 WATER RELATED ISSUES

8.1 Water Quantity

The Water Survey of Canada (WSC) gauging stations in the vicinity of the project were examined. As well as the Atmosphere Environment Services (AES) precipitation gauges were also investigated. The figure below shows the location of key stations.



Based on the available data, the elevation, aspect, and location of the watershed, a unit runoff of 118 l/s/km^2 was considered a conservative value for the Dasque Creek watershed. The existing WSC gauging stations are located at low elevations and therefore do not represent unit runoff that occurs at higher elevations. Precipitation in a given area generally increases with an increase in elevation.

B w are nearby WSC gauging stations relevant data. The watershed boundaries are shown in **Figure 2**.

WSC STATIONS NEAR DASQUE CREEK

Station ID	Station Name	Records	Drainage Area km^2	From Year	To Year	Latitude	Longitude	Mean Flow m^3/s	Unit Runoff $l/s/km^2$
08FF003	LITTLE WEDEENE RIVER BELOW BOWBYES CREEK	36	182	1966	2001	54°08'11"N	128°41'24"W	17.5	95.93
08EG012	EXCHAMSIKS RIVER NEAR TERRACE	43	370	1962	2004	54°21'47"N	129°18'41"W	43.7	118.11

A water level recorder is located near the intake location and the data is currently being evaluated.

8.2 Water Quality

No quality issues are apparent but will be studied further during the environmental studies.

8.3 Instream Requirements

Two waterfalls, each approximately 3m high were noted approximately 100m upstream of the bridge crossing. A Photo of the lower fish barrier is shown below. This will be confirmed during the Environmental Studies whether these represent a fish barrier.

For preliminary energy calculations it was assumed that a constant 10% release would occur year round. Further discussions with the DFO will be required to determine the release requirements.

8.4 Affected Water Users

There are no current water users in Dasque Creek Watershed Area.

9 CONSTRUCTION ACTIVITIES

The project will be constructed over a 2 year construction period.

Key dates area as follows:

April 2006	-	Submit Call for Tender 2006 Bid
August 2006	-	EPA Awarded
September 2006	-	Contractor Selected
October 2006	-	Contractor Mobilizes to Site
October 2007	-	End of Construction
October 2007	-	Testing and Commissioning
November 2007	-	Commercial Operation Date

10 SAFETY ASPECTS

There is no one living between the proposed intake at Dasque Creek and the proposed Powerhouse. The low level weirs will result in minimal impoundment of the water and the natural shape of the outlet will prevent massive amounts of water to be discharged.

The weirs will be designed for a 200 year flood.

As the weirs are below 2.5 m high they are not classified as dams under the Canadian Dam Safety Guidelines. The weirs though will be designed based on the criteria given by the Canadian Dam Association. This will insure that safety of structure is considered of paramount importance.

Based on the Canadian Dam Safety Guidelines, the proposed weirs would be in the Consequence Category of "very low", which is defined as where there is no fatalities expected and minor damages beyond the Owner's property.

During the life of the project, the weir will be inspected to insure that they are structurally sound.

11 FUTURE MONITORING

The project will be monitored by the following:

1. **Flow metering at the intakes.** Depending on the final design of the project this will be done by using a 4-path ultrasonic metering system. This method is accurate to within 1% of the flow.

2. **Flow measurement at the IFR outlets.** The IFR outlets will be calibrated based on the orifice equation and the flow will be governed by the head water upstream of the inlet.

3. **Water Level Measurements of the head pond.** This will be measured by pressure transducers and be recorded at 10 minute intervals.

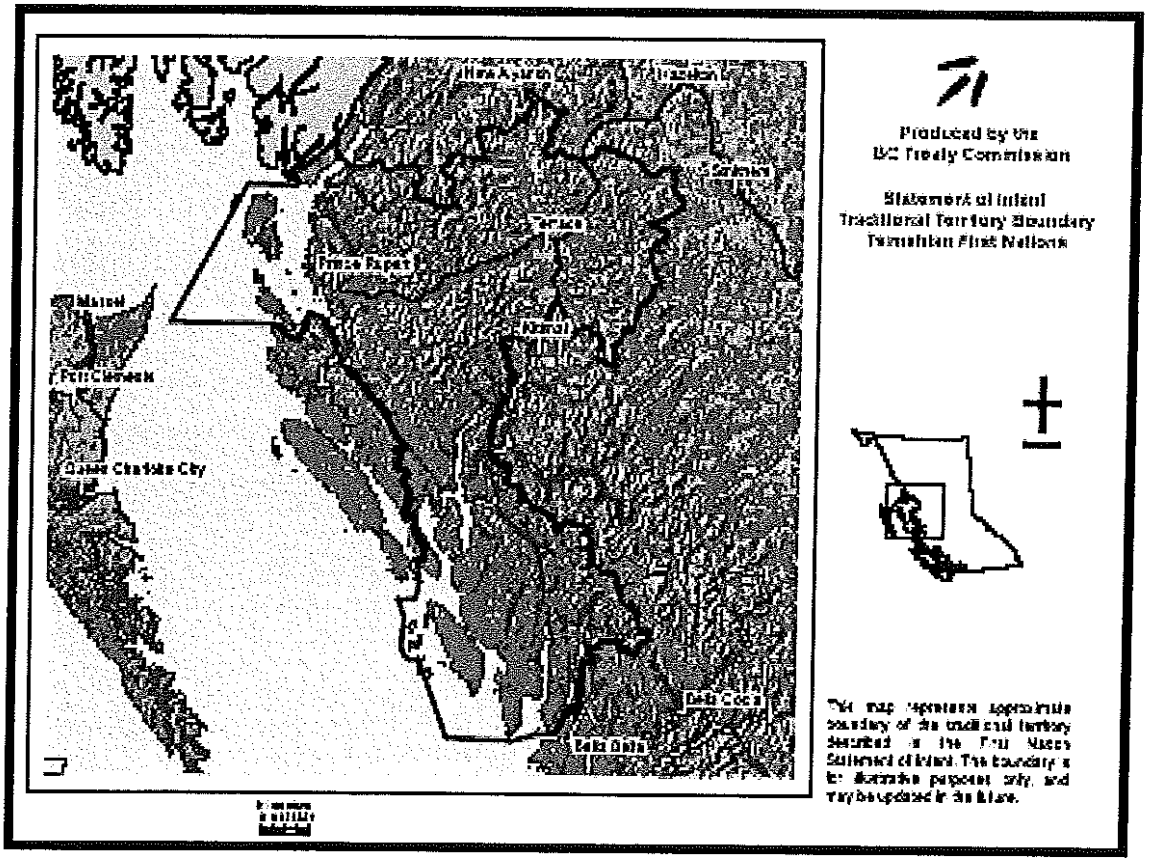
4. **Metering of Generation at the output of the Generator.** The generation from the generator will be recorded on accumulative MWh meter that will be recorded on an hourly basis.

5. **Revenue Metering of the transfer of electricity to BC Hydro** will be located once the interconnection study is complete. The records will be kept as required by BC Hydro.

12 RELATED CONSIDERATIONS

12.1 Archaeological Assessment

The project site is part of the Tsimshian First Nation reserve as shown below. Dasque Power Corporation is working in close cooperation with them to ensure that they are a key part in the development process. A detailed Archaeological assessment will be carried out with the assistance of the Tsimshian First Nation to determine whether there will be any impact of the project components on archaeological or cultural sites. If there are impacts, the project components will be modified to minimize or eliminate them.



12 Environmental Monitors

An environmental monitor will be retained to insure that the construction of the project will be carried out according to the recommendations of the Environmental Impact Assessment and the requirements of the Ministry of the Environment, Land and Water BC, DFO, and other regulatory agencies.

The monitor will have the authority to stop work where the owner, contractor or their representatives have been found to contravene the regulations and have not take prompt action to correct these acts.

The number of site visits will depend on the stage of work.

12.3 Remaining Environmental Considerations

A flora and fauna environmental study will be carried out to determine whether the project will adversely impact the different flora and fauna in the project area. Where adverse impacts may occur, a plan to mitigate these impacts will be made and implemented.

13 SUMMARY AND CONCLUSION

The Dasque Creek Hydroelectric Development is being developed by 755748 BC LTD.

The design philosophy in developing this project is to maximize the potential of the resource and minimize the environmental impact of the project as well as to mitigate any social issues. The proponents of the project are working closely with the Tsimshian First Nation to insure that all matters pertaining to the development of the project are fully understood and agreed upon.

The project will in total consist of 9 MW of installed capacity and generate on average 50 GWh of energy/year.

The following table summarizes the key components of the project:

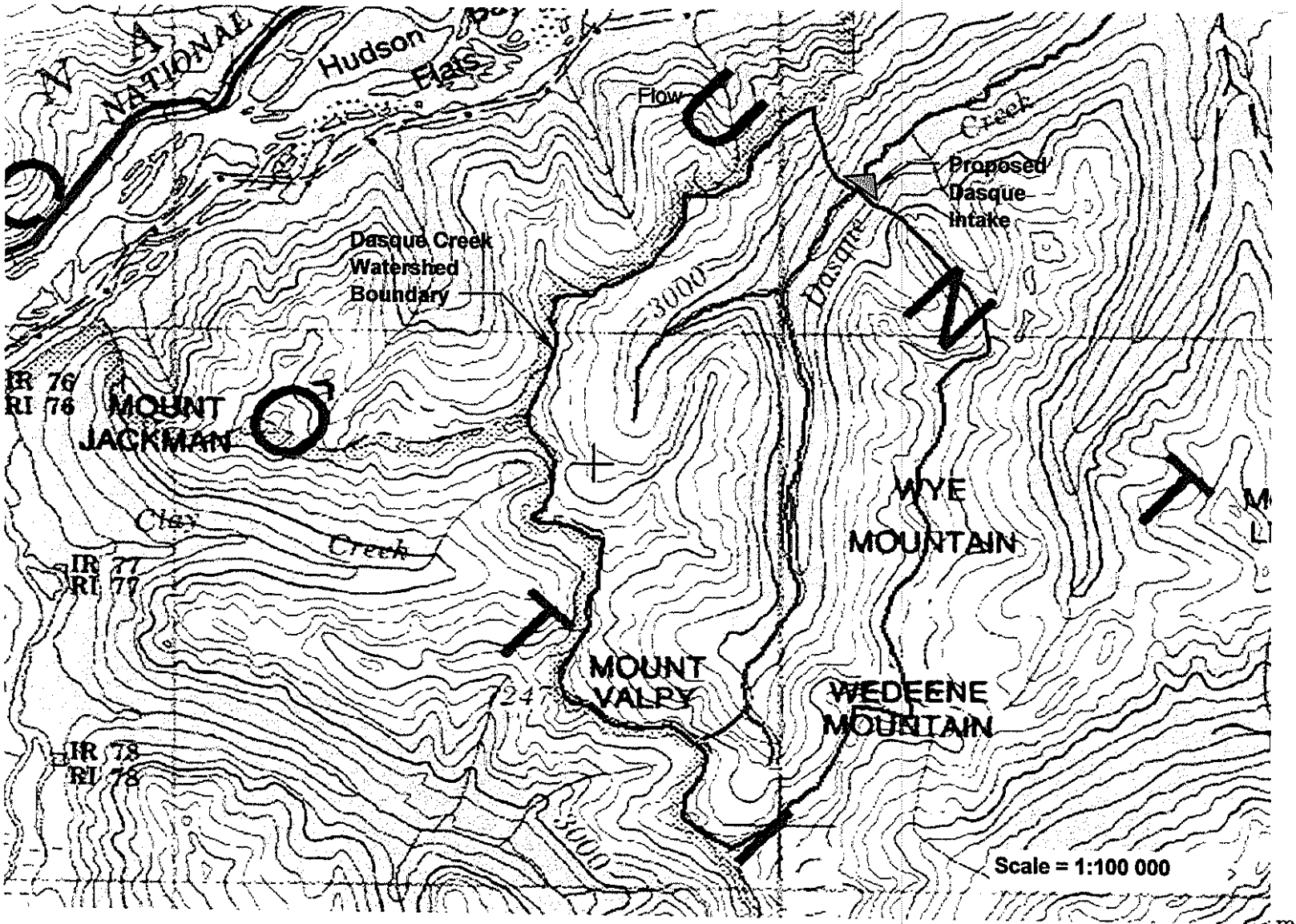
Project Proponent	755748 BC LTD
District	Kitimat Stikine
Watershed	Lower Skeena Group
Water Source	Dasque Creek
Mean Annual Flow	7 m^3/s
Design Discharge	7.5 m^3/s
Normal HWL	230 masl
Normal TWL	60 masl
Gross Head	170 m
Head Loss	30 m
IFR	0.7 m^3/s, year round, to be confirmed with DFO
Weir/Intake	2.4 m high coanda screen intale structure, submerged intake to pipeline/tunnel
Conduit	1700 m of 1.5 m dia 60" Weholite, 1700 m of 1.7 m Wheolite, 1600 m of 1.6 m dia steel .
Powerhouse	Steel clad and roofed superstructure, concrete substructure
Tailrace	Elevation 60 masl, discharges in the Dasque Creek
Turbines	2 x 4.5 MW Turgo units
Generator	2 x 5 MVA
Power Factor	0.9
Switchyard	10 MVA, 13.8 kV to 25 kV transformer
Transmission Line	Approximately 597 m of 230 kV transmission line.
Energy Generated	50 GWh/annum

The total energy that would be generated in summarized in the following table.

MONTHLY ENERGY PRODUCTION (GWH)	
Month	**Energy**
January	1.21
February	0.81
March	1.33
April	3.57
May	6.53
June	6.86
July	7.07
August	6.72
September	5.72
October	5.45
November	3.17
December	1.69
Annual Total	**50**

FIGURE 4

DASQUE CREEK WATERSHED BOUNDARY



DASQUE CREEK HYDROELECTRIC PROJECT

Amnis Engineering

0067/01 Rev. A- Issued for Info
P:\0067\01\Data\Dasque_Whitebottom\Dasque Map_rA.xls Dasque Map_rA.xls Emb_Chart Print :9/7/2006 7:00 PM

TABLE 2 e

755748 BC LTD. Intake penstock, and powerhouse metes and bounds

	Northing (m)	Easting (m)	Distance (m)	Azimuth Direction
And proceed in the Azimuth Direction	6024429.7	503474.6		
			177.6	243°27'25"
And proceed in the Azimuth Direction	6024350.4	503315.7		
			67.3	293°47'51"
And proceed in the Azimuth Direction	6024377.5	503254.2		
			184.8	264°58'38"
And proceed in the Azimuth Direction	6024361.3	503070.1		
			76.7	292°53'21"
And proceed in the Azimuth Direction	6024391.2	502999.5		
			82.1	278°07'34"
And proceed in the Azimuth Direction	6024402.8	502918.2		
			72.8	251°06'43"
And proceed in the Azimuth Direction	6024379.2	502849.3		
			73.3	306°38'35"
And proceed in the Azimuth Direction	6024422.9	502790.5		
			62.1	287°16'09"
And proceed in the Azimuth Direction	6024441.4	502731.2		
			60.1	239°24'30"
And proceed in the Azimuth Direction	6024410.8	502679.5		
			63.5	225°00'50"
And proceed in the Azimuth Direction	6024365.9	502634.5		
			32.1	248°26'17"
And proceed in the Azimuth Direction	6024354.1	502604.7		
			35.8	259°27'57"
And proceed in the Azimuth Direction	6024347.6	502569.5		
			95.9	256°19'24"
And proceed in the Azimuth Direction	6024324.9	502476.3		
			88.2	166°26'06"
And proceed in the Azimuth Direction	6024239.1	502497.0		
			30.4	202°23'27"
And proceed in the Azimuth Direction	6024211.0	502485.5		
			45.0	210°17'56"
And proceed in the Azimuth Direction	6024172.1	502462.8		
			248.4	273°01'58"
And proceed in the Azimuth Direction	6024185.3	502214.7		
			47.6	230°00'45"
And proceed in the Azimuth Direction	6024154.7	502178.2		
			23.3	188°28'31"
	6024131.6	502174.8		

TABLE 2 a

755748 BC LTD. Intake penstock, and powerhouse metes and bounds

There ar[illegible]o known existing survey posts in the vicinity of the project from which a point on the boundary of the Crown Land application area may be referenced. Thus, the reference point will be a nearby prominent geological feature

From this reference point travel in a north easterly direction to reach the southeast corner

	Northing (m)	Easting (m)	Distance (m)	Azimuth Direction
Start	6024029.6	501946.4		
And proceed in the Azimuth Direction			72.9	157°50'34"
	6023962.1	501973.9		
And proceed in the Azimuth Direction			51.3	67°50'34"
	6023981.4	502021.5		
And proceed in the Azimuth Direction			21.0	337°50'34"
	6024000.9	502013.5		
And proceed in the Azimuth Direction			51.1	74°18'38"
	6024014.7	502062.7		
And proceed in the Azimuth Direction			106.0	84°22'20"
	6024025.1	502168.2		
And proceed in the Azimuth Direction			67.8	94°23'47"
	6024019.9	502235.8		
And proceed in the Azimuth Direction			52.3	51°21'18"
	6024052.6	502276.6		
And proceed in the Azimuth Direction			123.8	84°50'22"
	6024063.7	502400.0		
And proceed in the Azimuth Direction			39.5	48°49'45"
	6024089.7	502429.7		
And proceed in the Azimuth Direction			68.3	63°04'26"
	6024120.6	502490.5		
And proceed in the Azimuth Direction			78.9	30°17'56"
	6024188.8	502530.4		
And proceed in the Azimuth Direction			50.1	22°23'27"
	6024235.1	502549.5		
And proceed in the Azimuth Direction			54.6	346°26'06"
	6024288.1	502536.7		
And proceed in the Azimuth Direction			44.6	76°19'24"
	6024298.7	502580.0		
And proceed in the Azimuth Direction			39.3	79°27'57"
	6024305.8	502618.6		
And proceed in the Azimuth Direction			47.3	68°26'17"
	6024323.2	502662.6		
And proceed in the Azimuth Direction			67.6	45°00'50"
	6024371.0	502710.3		
And proceed in the Azimuth Direction			31.6	59°24'30"
	6024387.0	502737.5		

TABLE 2 b

755748 BC LTD. Intake penstock, and powerhouse metes and bounds

	Northing (m)	Easting (m)	Distance (m)	Azimuth Direction
And proceed in the Azimuth Direction	6024377.7	502767.5	31.4	107°16'09"
And proceed in the Azimuth Direction	6024323.4	502840.6	91.1	126°38'35"
And proceed in the Azimuth Direction	6024351.6	502923.1	87.1	71°06'43"
And proceed in the Azimuth Direction	6024342.6	502986.0	63.6	98°07'34"
And proceed in the Azimuth Direction	6024310.4	503062.1	82.6	112°53'21"
And proceed in the Azimuth Direction	6024326.6	503245.7	184.3	84°58'38"
And proceed in the Azimuth Direction	6024295.1	503317.0	77.9	113°47'51"
And proceed in the Azimuth Direction	6024387.9	503502.7	207.5	63°27'25"
And proceed in the Azimuth Direction	6024476.6	503603.9	134.5	48°45'29"
And proceed in the Azimuth Direction	6024561.6	503632.1	89.6	18°23'51"
And proceed in the Azimuth Direction	6024613.2	503668.2	63.0	34°56'31"
And proceed in the Azimuth Direction	6024626.8	503697.7	32.4	65°15'29"
And proceed in the Azimuth Direction	6024619.2	503773.5	76.2	95°45'10"
And proceed in the Azimuth Direction	6024657.9	503960.6	191.0	78°18'53"
And proceed in the Azimuth Direction	6024709.3	503994.0	61.3	32°58'56"
And proceed in the Azimuth Direction	6024713.2	504070.5	76.6	87°08'20"
And proceed in the Azimuth Direction	6024740.0	504171.3	104.3	75°05'50"
And proceed in the Azimuth Direction	6024850.8	504313.9	180.6	52°08'59"
And proceed in the Azimuth Direction	6024884.4	504327.6	36.3	22°10'11"
And proceed in the Azimuth Direction	6025021.5	504611.2	315.0	64°12'07"

TABLE 2 c

755748 BC LTD. Intake penstock, and powerhouse metes and bounds

	Northing (m)	Easting (m)	Distance (m)	Azimuth Direction
And proceed in the Azimuth Direction			89.4	60°54'20"
	6025065.0	504689.3		
And proceed in the Azimuth Direction			83.1	37°50'44"
	6025130.6	504740.3		
And proceed in the Azimuth Direction			53.0	46°33'48"
	6025167.1	504778.8		
And proceed in the Azimuth Direction			59.4	57°35'58"
	6025198.9	504828.9		
And proceed in the Azimuth Direction			38.6	75°14'19"
	6025208.7	504866.3		
And proceed in the Azimuth Direction			234.6	41°04'17"
	6025385.6	505020.4		
And proceed in the Azimuth Direction			86.5	56°04'16"
	6025433.9	505092.2		
And proceed in the Azimuth Direction			162.7	65°27'01"
	6025501.5	505240.2		
And proceed in the Azimuth Direction			626.0	37°16'38"
	6025999.6	505619.4		
And proceed in the Azimuth Direction			219.1	18°42'37"
	6026207.1	505689.7		
And proceed in the Azimuth Direction			136.1	311°08'01"
	6026296.7	505587.1		
And proceed in the Azimuth Direction			56.7	52°14'38"
	6026331.4	505632.0		
And proceed in the Azimuth Direction			87.7	322°14'38"
	6026400.7	505578.3		
And proceed in the Azimuth Direction			126.6	232°14'38"
	6026323.2	505478.2		
And proceed in the Azimuth Direction			87.7	142°14'38"
	6026253.9	505531.8		
And proceed in the Azimuth Direction			19.0	52°14'38"
	6026265.5	505546.8		
And proceed in the Azimuth Direction			112.5	131°08'01"
	6026191.5	505631.6		
And proceed in the Azimuth Direction			177.4	198°42'37"
	6026023.4	505574.6		
And proceed in the Azimuth Direction			605.3	217°16'38"
	6025541.8	505208.0		

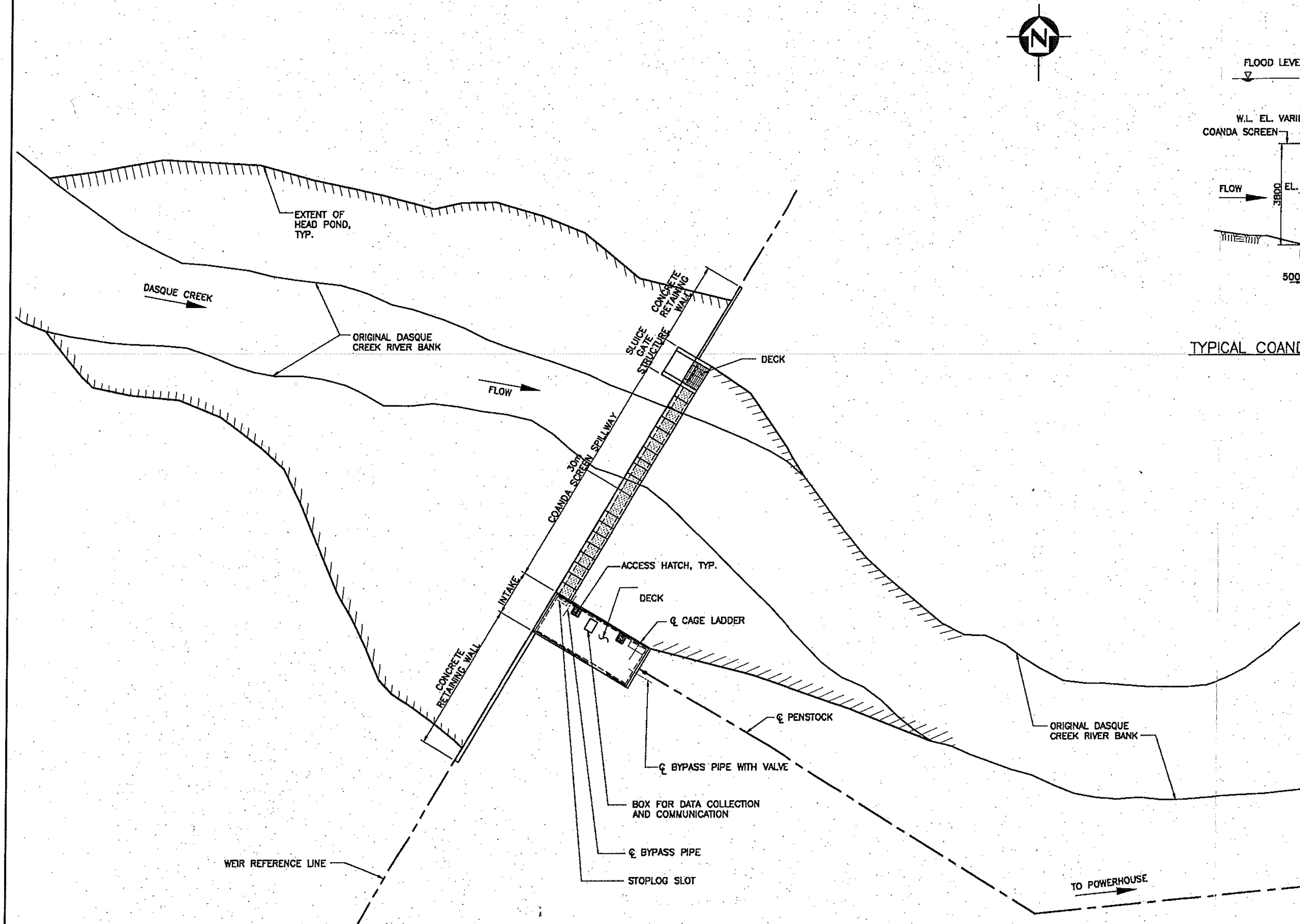
TABLE 2 d
755748 BC LTD. Intake penstock, and powerhouse metes and bounds

	Northing (m)	Easting (m)	Distance (m)	Azimuth Direction
And proceed in the Azimuth Direction	6025477.7	505067.7	154.3	245°27'01"
And proceed in the Azimuth Direction	6025423.4	504987.1	97.2	236°04'16"
And proceed in the Azimuth Direction	6025253.2	504838.7	225.8	221°04'17"
And proceed in the Azimuth Direction	6025245.3	504808.7	31.0	255°14'19"
And proceed in the Azimuth Direction	6025206.7	504747.9	72.0	237°35'58"
And proceed in the Azimuth Direction	6025164.3	504703.2	61.6	226°33'48"
And proceed in the Azimuth Direction	6025103.7	504656.1	76.7	217°50'44"
And proceed in the Azimuth Direction	6025065.9	504588.1	77.8	240°54'20"
And proceed in the Azimuth Direction	6024921.1	504288.5	332.8	244°12'07"
And proceed in the Azimuth Direction	6024882.0	504272.6	42.2	202°10'11"
And proceed in the Azimuth Direction	6024785.7	504148.6	157.0	232°08'59"
And proceed in the Azimuth Direction	6024762.8	504062.7	88.9	255°05'50"
And proceed in the Azimuth Direction	6024758.0	503965.9	96.9	267°08'20"
And proceed in the Azimuth Direction	6024702.6	503930.0	66.0	212°58'56"
And proceed in the Azimuth Direction	6024669.7	503770.9	162.5	258°18'53"
And proceed in the Azimuth Direction	6024677.9	503689.1	82.1	275°45'10"
And proceed in the Azimuth Direction	6024653.0	503635.0	59.6	245°15'29"
And proceed in the Azimuth Direction	6024584.2	503587.0	83.9	214°56'31"
And proceed in the Azimuth Direction	6024505.2	503560.7	83.3	198°23'51"
			114.5	228°45'29"

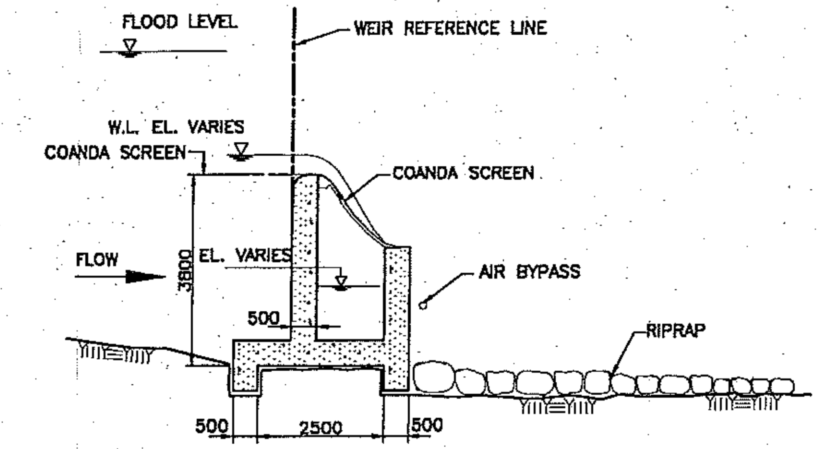
TABLE 2 f

755748 BC LTD. Intake penstock, and powerhouse metes and bounds

	Northing (m)	Easting (m)	Distance (m)	Azimuth Direction
And proceed in the Azimuth Direction	6024143.6	502104.7	71.2	279°40'05"
And proceed in the Azimuth Direction	6024063.3	502016.9	118.9	227°31'51"
And proceed in the Azimuth Direction	6024054.5	501991.7	26.7	250°47'45"
And proceed in the Azimuth Direction	6024091.9	501976.5	40.3	337°50'34"
And proceed in the Azimuth Direction	6024072.5	501929.0	51.3	247°50'34"
And proceed in the Azimuth Direction			46.1	157°50'34"
End	6024029.8	501946.3		



PLAN
SCALE A



TYPICAL COANDA SCREEN SPILLWAY CROSS SECTION
SCALE B

SCALE: B 1.5 0 1.5 3m

SCALE: A 5 0 5 10 m

Rev.	REVISION DESCRIPTION	Date	Design	Drawn	Chk'd	App'd

Designed by | Checked by
Drawn by | Approved by

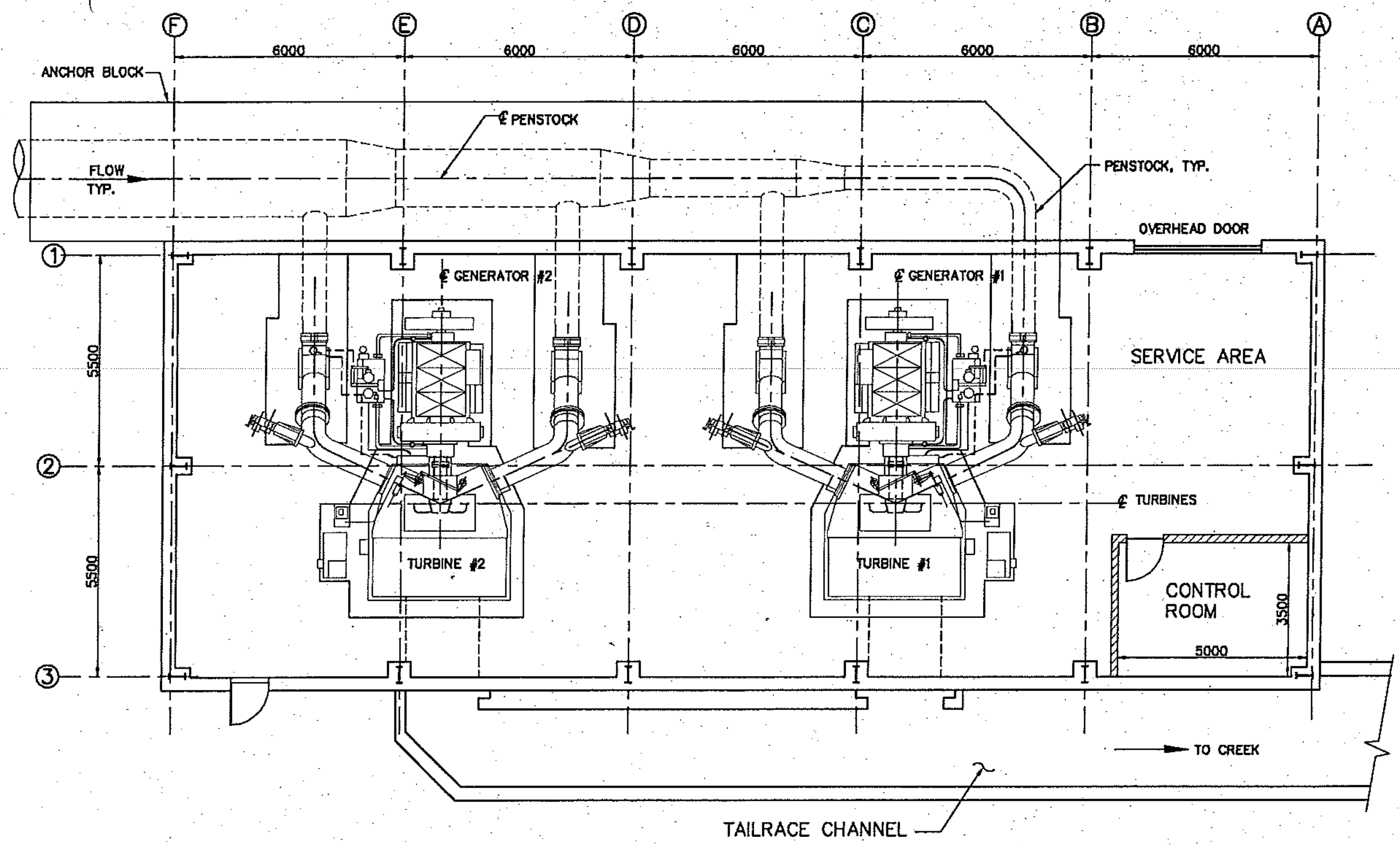
Amnis Engineering Ltd.

755748 BC LTD

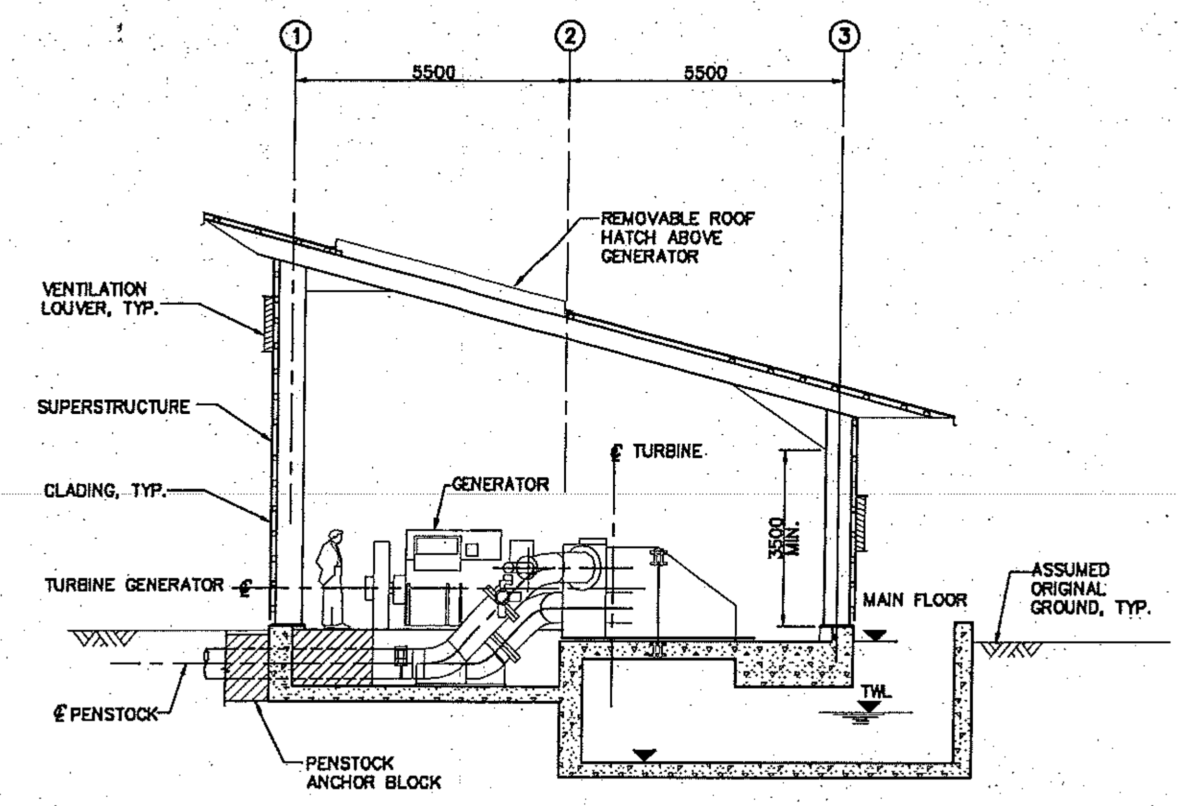
DASQUE CREEK HYDROELECTRIC PROJECT

INTAKE
GENERAL ARRANGEMENT
PLAN & SECTION

SCALE: AS SHOWN | DRAWING NO. 0067-010 | REVISION B



MAIN FLOOR PLAN



TYPICAL CROSS SECTION

1.5m 0m 1.5m 3m

Rev.	REVISION DESCRIPTION	Date	Design	Drawn	Chk'd	App'd
Designed by		Checked by				
Drawn by		Approved by				

Amnis Engineering Ltd.

755748 BC LTD

DASQUE CREEK HYDROELECTRIC PROJECT

POWERHOUSE
GENERAL ARRANGEMENT
PLAN AND SECTION

SCALE	DRAWING NO.	REVISION
AS SHOWN	0067-020	B

8.0 LAND REQUIREMENTS

Table 1: 755748 BC LTD. Crown Land Requirements

Component	Use	Area (ha)	Length
Penstock Including Intake & Powerhouse	Licence	30	Penstock: 5000 m
Transmission Line	Right-of-Way	83	20.6 km

596.9 m long
↑
right ✓

↑ ?

↑ ?
596.9m

830000 sq m

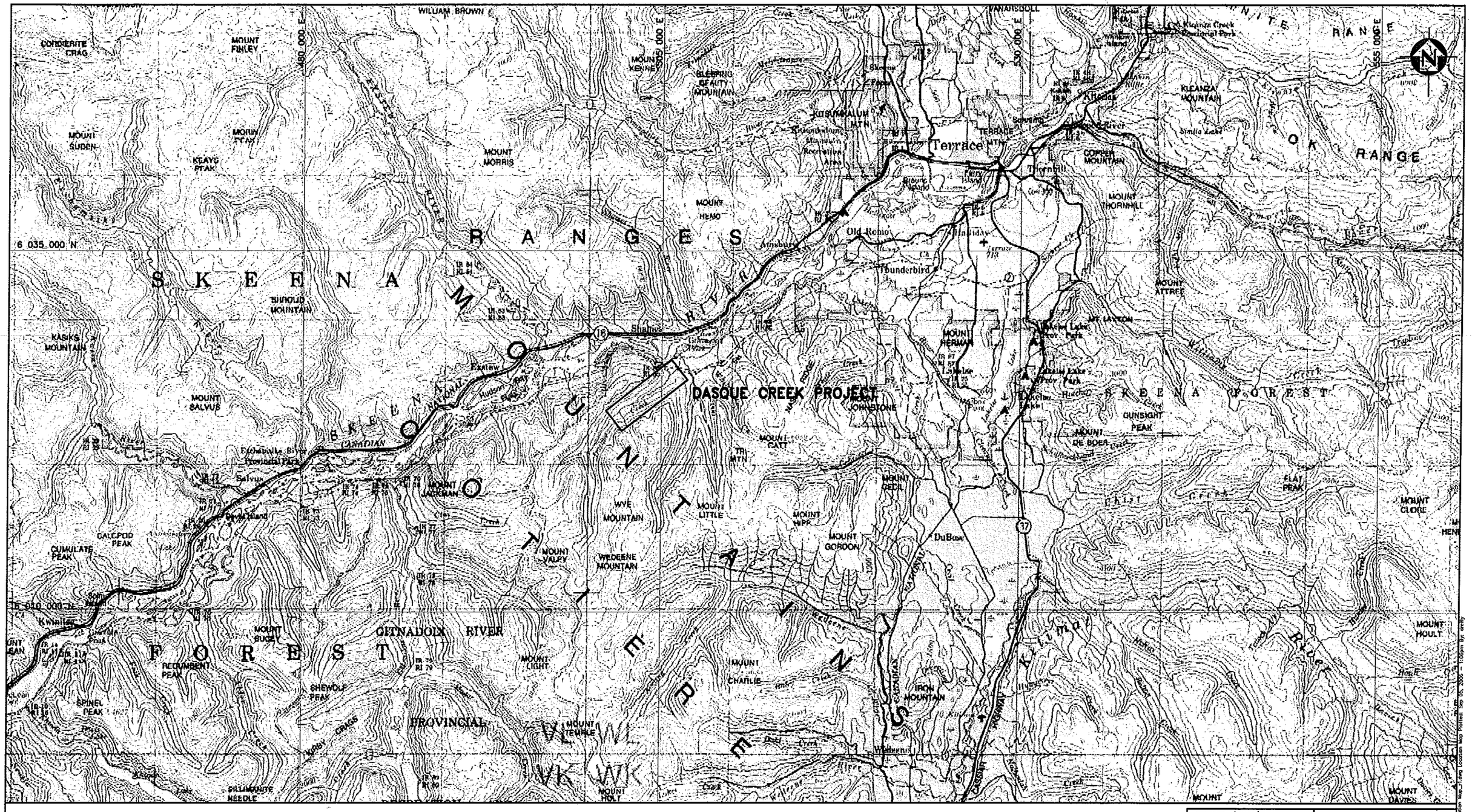
20600 m

1390.5 m wide
x 596.9 m long
= 830000 sq m

TABLE 3

755748 BC LTD. Application for Crown Land Metes and Bounds for Transmission Line.

Location	Waypoint	Coordinates at waypoint Northing Easting ~~Easting~~ Northing (m)		Distance (m)	Azimuth Direction
Switchyard	1	6026312.0	505542.3	596.9	44°29'16"
	2	6026737.8	505960.6		
BCTC			Total	596.9	



NOTE

1. Grid shown is UTM NAD83 ZONE 9.

Scale 2500 0 2500 5000 7500 10000 12500 m

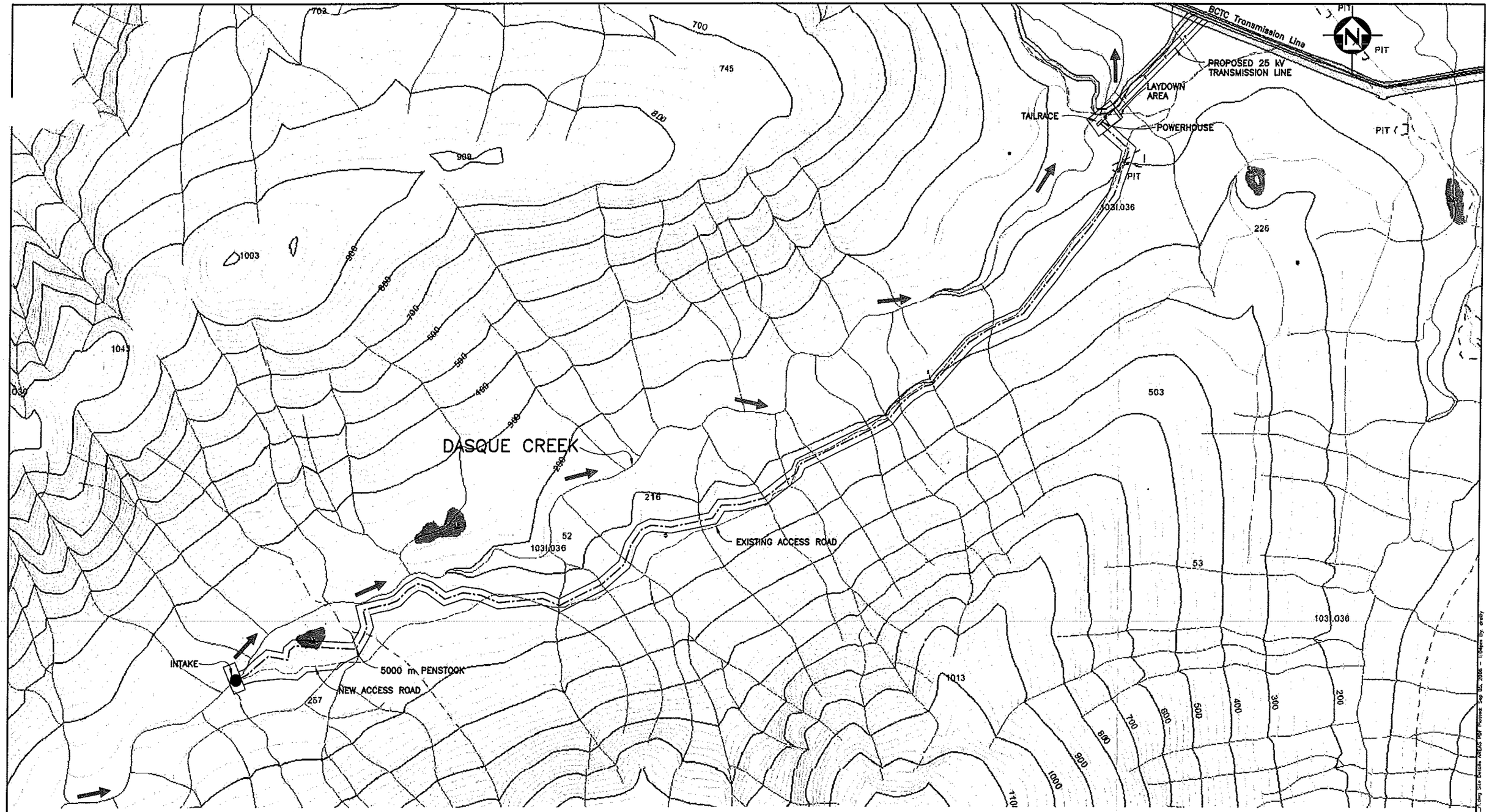
Amnis Engineering Ltd.

755748 BC LTD

DASQUE CREEK PROJECT

LOCATION MAP

SCALE	FIGURE NO.	REVISION
1:250 000	FIGURE 1	0



TOTAL APPROXIMATE PROJECTS COMPONENTS AREA – 30 HECTARES

TOTAL APPROXIMATE TRANSMISSION LINE AREA – 2 HECTARES

SCALE 150 0 150 300 450 600 750 m

Amnis Engineering Ltd.	755748 BC LTD
DASQUE CREEK PROJECT	
LAND REQUIREMENTS	
SCALE 1:15 000	FIGURE NO. 2-0288
	REVISION 1

9.0 CERTIFICATE OF INCORPORATION

BRITISH COLUMBIA

Number: BC0755748

Certified a true copy this 7
day of June, 2006
Solicitor

RAYMOND D. SCHACHTER
Barrister & Solicitor
1450 - 1075 WEST GEORGIA STREET
VANCOUVER, B.C. V6E 3C9
TEL: (604) 682-0701
FAX: (604) 682-735[illegible]

CERTIFICATE OF INCORPORATION

BUSINESS CORPORATIONS ACT

I Hereby Certify that 0755748 B.C. LTD. was incorporated under the Business Corporations Act on April 25, 2006 at 11:31 AM Pacific Time.

Issued under my hand at Victoria, British Columbia
On April 25, 2006

RON TOWNSHEND
Registrar of Companies
Province of British Columbia
Canada