



MINISTRY OF ENVIRONMENT,
LANDS AND PARKS

**PERMIT
PE-12860**

Under the Provisions of the Waste Management Act

**POWELL RIVER REGIONAL DISTRICT
5776 Marine Avenue
Powell River, British Columbia
V8Z 2M4**

is authorized to discharge effluent to the marine water of Georgia Strait from a community sewerage system located in Lund, north of Powell River, British Columbia, and is subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Waste Management Act* and may result in prosecution.

1. AUTHORIZED DISCHARGE

1.1 This subsection applies to the discharge of effluent from **A COMMUNITY SEWER SYSTEM**. The site reference number for this discharge is E221271.

1.1.1 The maximum authorized rate of discharge is 230 m³/day. The authorized discharge period is continuous.

1.1.2 The characteristics of the discharge shall be:

5-day biochemical oxygen demand,	45. mg/L, maximum;
Total suspended solids(nonfilterable residue),	60. mg/L, maximum;
Toxicity (LT50)	96. hours, minimum.

1.1.3 The authorized works are primary sedimentation, flow equalization, rotating biological contactor type of secondary treatment, clarification, a submerged outfall that extends a minimum of 500 metres from, and a minimum depth of 50 metres below mean low water level, and related appurtenances, approximately located as shown on attached Site Plan A.

1.1.4 The legal description for the location of the facilities from which the discharge originates is District Lot 1613, Group 1, NWD.

1.1.5 The legal description for the location of the point of discharge is approximately 530 metres southwest of the southwest corner of District Lot 1614, Group 1, NWD.

2. GENERAL REQUIREMENTS

2.1 Maintenance of Works

The permittee shall inspect the authorized works regularly and maintain them in good working order. Notify the Regional Waste Manager of any malfunction of these works.

2.2 Emergency Procedures

In the event of an emergency which prevents compliance with a requirement of this permit, that requirement will be suspended **for such time as the emergency exists** or until otherwise directed by the Regional Waste Manager provided that:

- a. Due diligence was exercised in relation to the process, operation or event which caused the emergency and that the emergency occurred notwithstanding this exercise of due diligence;
- b. The Regional Waste Manager is immediately notified of the emergency; and
- c. The emergency condition is being corrected with due diligence.

Notwithstanding a, b, and c above, the Regional Waste Manager may require the operation to be suspended to protect the environment while the situation is corrected.

2.3 Bypasses

The discharge of effluent which has bypassed the designated treatment works is prohibited unless the approval of the Regional Waste Manager is obtained and confirmed in writing.

2.4 Process Modifications

The permittee shall notify the Regional Waste Manager prior to implementing changes to any process that may adversely affect the quality and/or quantity of the discharge.

2.5 Sludge Wasting and Disposal

Sludge wasted from the treatment plant shall be disposed of to a site and in a manner approved by the Regional Waste Manager.

2.6 Posting of Outfall

A sign shall be erected along the alignment of the outfall above high water mark. The sign shall identify the nature of the works. The wording and size of the sign shall be approved by the Regional Waste Manager.

2.7 Outfall Inspections

The permittee shall have the outfall inspected once each two years by independent qualified personnel to ensure it is in good condition. An inspection report shall be submitted to the Regional Waste Manager within 30 days after the inspection date. The first report shall be submitted by December 31, 1997.

2.8 Operator Certification

The permittee shall have the wastewater treatment facility authorized in Subsection 1.1 (the facility) classified by the "British Columbia Water and Wastewater Operators Certification Program Society" (the Program).

If the facility is classified by the Program at Level II or higher, the permittee shall:

- a. ensure that all operators of the facility are certified by the Program to a minimum of Class I ; and
- b. designate at least one operator to be the Chief Operator of the facility by **December 1, 1996**. The Chief Operator shall be certified at minimum Class II.

After **December 1, 1996**, no person shall have "Direct Responsible Charge", as defined by the Program, of a municipal wastewater treatment facility classified at Level II or higher unless he or she possesses a valid operator's certificate not more than one level below the classification level of the facility.

If the facility is classified by the Program at Level III, the permittee shall designate a Chief Operator, certified at Class III by **December 1, 1998**. If the facility is classified by the Program at Level IV, the permittee shall designate a Chief Operator, certified at Class IV by **December 1, 1998**.

All operators in training (OIT) working at the facility classified by the Program at Level II or higher must successfully pass an OIT examination after three (3) months of commencement of employment at the facility. The OIT certificate shall be valid for fifteen (15) months from the date of issue. Prior to the expiry date of the OIT certificate, but not sooner than twelve (12) months from the date when the OIT commenced facility operation, the OIT must successfully complete a Class I certification examination in order to continue to work at the facility.

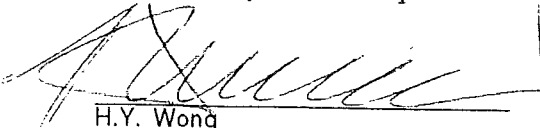
2.9 Plans - New Works

Plans and specifications of the works authorized in Subsection 1.1 shall be certified by a professional engineer registered in the Province of British Columbia, and submitted to the Regional Waste Manager by April 30, 1995.

2.10 Disinfection

Although disinfection of the effluent is not required at this time, suitable provisions should be made to include disinfection facilities in the future when deemed necessary by the Regional Waste Manager. This may include ultraviolet, chlorination or other similar processes. If disinfection is by chlorination, dechlorination facilities may also be required.

Date Issued: FEB 13 1995
Date Amended:
(most recent)


H.Y. Wong
Regional Waste Manager

3. MONITORING AND REPORTING REQUIREMENTS

3.1 Discharge Monitoring

3.1.1 Grab Sampling

A suitable sampling facility shall be installed and a grab sample of the effluent authorized by Subsection 1.1 shall be obtained once each quarter for 5-day biochemical oxygen demand (BOD₅) and total suspended solids (nonfilterable residue) analyses. Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

3.1.2 Analyses

Obtain analyses of the sample for the following:

5-day biochemical oxygen demand (BOD₅), mg/L;
Total suspended solids (nonfilterable residue), mg/L.

3.1.3 Grab Sampling

A suitable sampling facility shall be installed and a grab sample of the effluent authorized by Subsection 1.1 shall be obtained once each six month for toxicity analyses. Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

3.1.4 Analyses

Obtain analyses of the sample for the following:

Toxicity (96h LT50), hr.

3.1.5 Flow Measurement

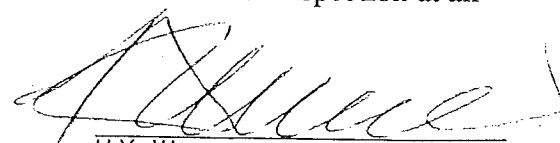
Provide and maintain a suitable flow measuring device and record once per week the effluent volume discharged over a 24-hour period.

3.2 Monitoring Procedures

3.2.1 Sampling and Flow Measurement

Sampling and flow measurement shall be carried out in accordance with the procedures described in "Field Criteria for Sampling Effluents and Receiving Waters", April 1989, 17 pp., or by suitable alternative procedures as authorized by the Regional Waste Manager.

Copies of the above manual are available from the Environmental Protection Division, Ministry of Environment, Lands and Parks, 777 Broughton Street, Victoria, British Columbia, V8V 1X5, and are also available for inspection at all Environmental Protection Offices.



3.2.2 Chemical Analyses

Analyses are to be carried out in accordance with procedures described in the latest version of "BRITISH COLUMBIA ENVIRONMENTAL LABORATORY MANUAL for the Analysis of Water, Wastewater, Sediment and Biological Materials (March 1994 Permittee Edition)", or by suitable alternative procedures as authorized by the Regional Waste Manager.

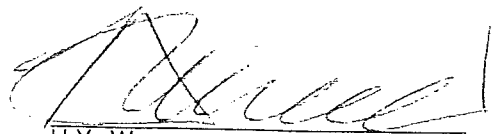
A copy of the above manual may be purchased from the Queens Printer Publications Centre, 2nd Floor, 563 Superior Street, Victoria, British Columbia, V8V 4R6 (1-800-663-6105). A copy of the manual is also available for review at any Environmental Protection Program Office.

3.2.3 Quality Assurance

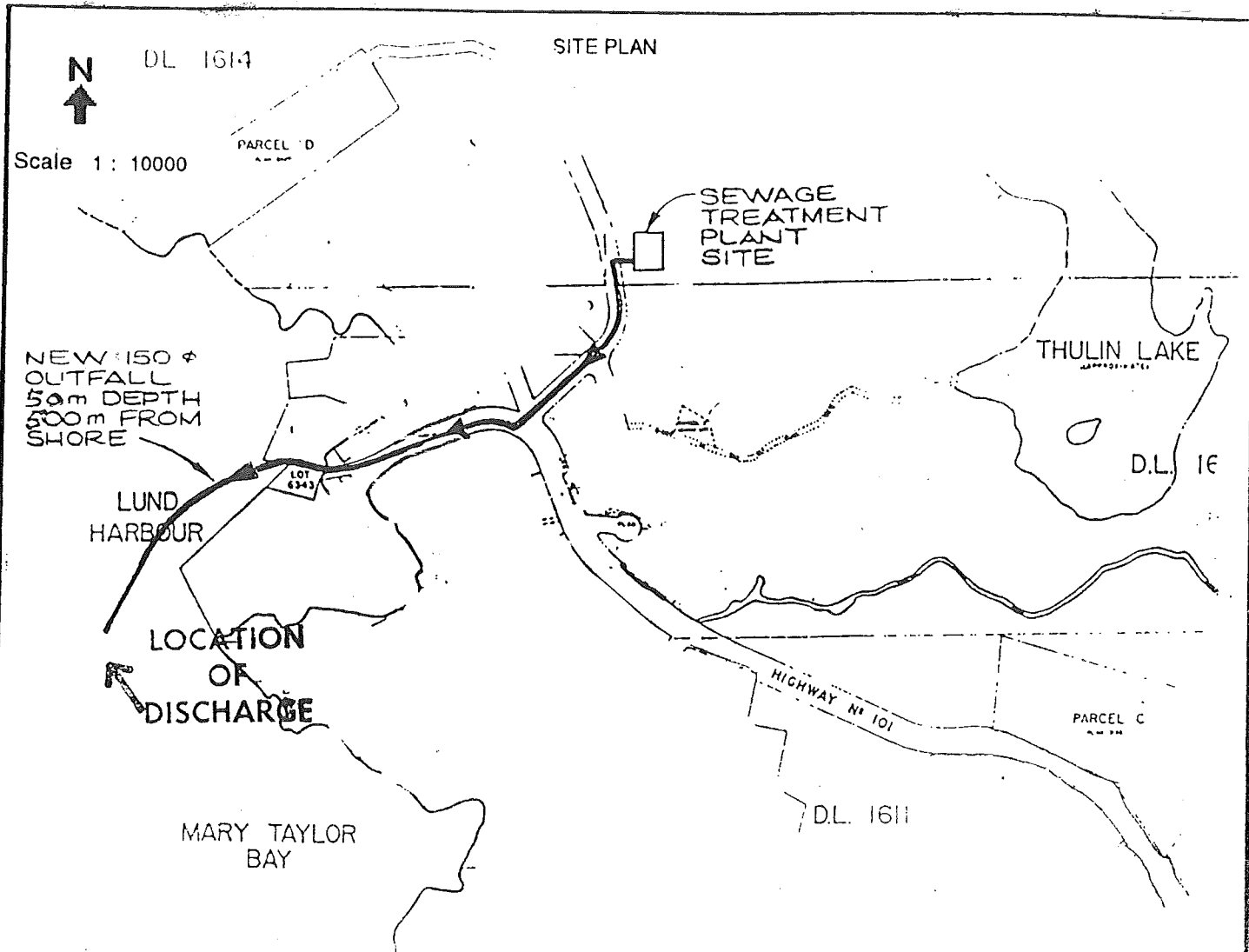
All data analyses required to be submitted by the permit shall be conducted by a laboratory acceptable to the Regional Waste Manager. At the request of the manager, the permittee shall provide the laboratory quality assurance data, associated field blanks, and duplicate analysis results along with the submission of data required under Section 3. of the permit.

3.3 Reporting

Maintain data of analyses and flow measurements for inspection and submit the data, suitably tabulated, to the Regional Waste Manager for the previous **six months**. The first report is to be submitted by **December 31, 1995**. All reports shall be received by the manager within 31 days of the end of the reporting period.



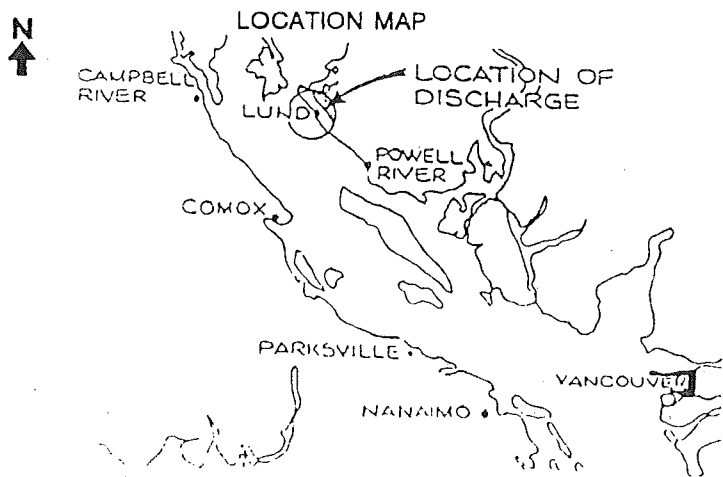
H.Y. Wong
Regional Waste Manager



LEGAL DESCRIPTION:

Sewage Treatment Plant: District Lot 1613, Group 1, NWD.

Outfall: approximately 530 metres SW of the southwest corner of District Lot 1614, Group 1, NWD.



For Office Use Only

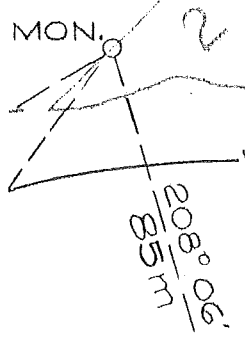
Site Plan A

Permit/Approval PE-12860

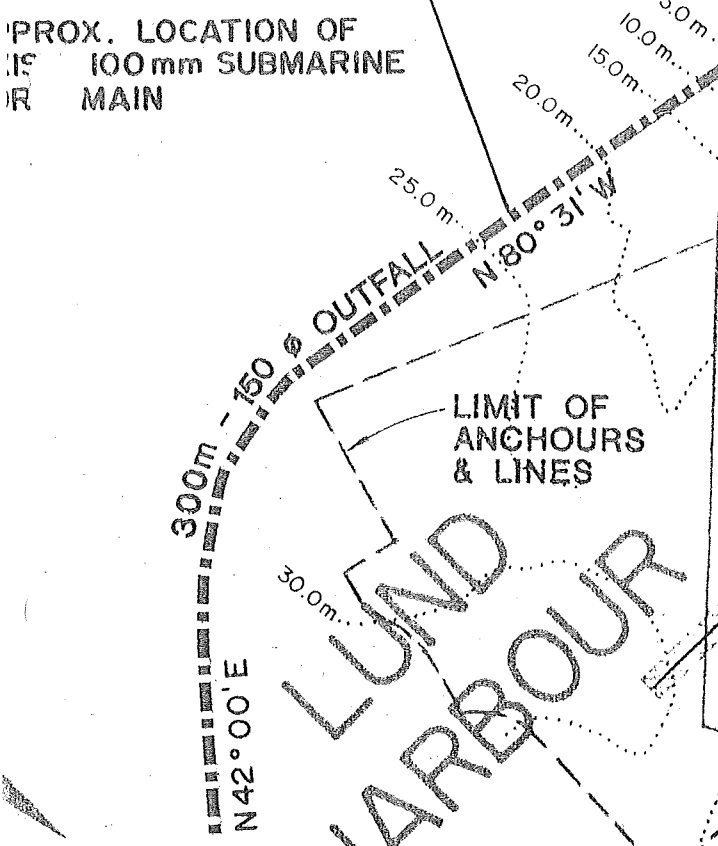
FEB 13 1995

Date

[Signature]
Regional Waste Manager



PROX. LOCATION OF
100mm SUBMARINE
MAIN



EXISTING 100 Ø OUTFALL

LUND
HARBOUR

LIMIT OF CONTRACT

LUND WHARF
SEWAGE PUMP
STATION

BOAT RAMP

MARINA
FLOATS

MURRAY
ROAD

FRANZIN

ROAD

PLAN 10681

PLAN 10681

PLAN 11021

LOT 6976

LOT 7067

LOT 1013

EASEMENT

17853

EASEMENT
OFF PLAN 10681

24

EASE
EXPLAN

LOT OF CONTRACT

ROPE SHOULDER

FLOATING
BREAKWATER

12

PLAN 13653

PLAN 11071

PLAN 2946

PLAN 19