

October 2, 2008

Tracking Number: 5681

Authorization Number: 4088

REGISTERED MAIL

CORPORATION OF THE DISTRICT OF SECHELT

Box 129

2nd Floor 5797 Cowrie Street

Sechelt, British Columbia V0N 3A0

Dear Permittee:

Enclosed is Amended Permit 4088 issued under the provisions of the *Environmental Management Act*. Your attention is respectfully directed to the terms and conditions outlined in the permit. An annual fee will be determined according to the Permit Fees Regulation.

This permit does not authorize entry upon, crossing over, or use for any purpose of private or Crown lands or works, unless and except as authorized by the owner of such lands or works. The responsibility for obtaining such authority rests with the permittee. This permit is issued pursuant to the provisions of the *Environmental Management Act* to ensure compliance with Section 120(3) of that statute, which makes it an offence to discharge waste, from a prescribed industry or activity, without proper authorization. It is also the responsibility of the permittee to ensure that all activities conducted under this authorization are carried out with regard to the rights of third parties, and comply with other applicable legislation that may be in force.

This decision may be appealed to the Environmental Appeal Board in accordance with Part 8 of the *Environmental Management Act*. An appeal must be delivered within 30 days from the date that notice of this decision is given. For further information, please contact the Environmental Appeal Board at (250) 387-3464.

Administration of this permit will be carried out by staff from the Lower Mainland Region. Plans, data and reports pertinent to the permit are to be submitted to the Regional Manager, Environmental Protection, at Ministry of Environment, Regional Operations, Lower Mainland Region, 2nd Floor, 10470 - 152 Street, Surrey, BC V3R 0Y3.

Yours truly,



Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region

Enclosure

cc: Environment Canada

Peter Gigliotti, P.Eng., Urban Systems Ltd.,
#500 - 1708 Dolphin Ave., Kelowna BC V1Y 9S4



MINISTRY OF
ENVIRONMENT

PERMIT

4088

Under the Provisions of the Environmental Management Act

CORPORATION OF THE DISTRICT OF SECHELT

Box 129

2nd Floor 5797 Cowrie Street

Sechelt, British Columbia V0N 3A0

is authorized to discharge effluent to marine water from two municipal waste water treatment plants located in Sechelt, British Columbia, subject to the terms and conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may lead to prosecution.

This permit supersedes and amends all previous versions of Permit 4088 issued under Part 2, Section 14 of the *Environmental Management Act*.

1. AUTHORIZED DISCHARGE

1.1 Authorized Source

This section applies to the discharge of secondary effluent from two waste water treatment plants serving the District of Sechelt. The site reference number for this discharge is E100781.

1.1.1 The maximum authorized rate of discharge is 3740 cubic metres/day.

1.1.2 The characteristics of the discharge shall be equivalent to or better than:

5-day carbonaceous biochemical oxygen demand (CBOD5), 30 mg/L, maximum;

Total suspended solids (nonfilterable residue), 40 mg/L, maximum;

Fish bioassay (rainbow trout) 96 hour LC50, 100%.

Date issued: April 2, 1976
Date amended: October 2, 2008
(most recent)

Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region
Permit Number: 4088

1.1.3 The authorized works are two separate waste water treatments plants and a common submerged outfall with diffuser extending a minimum of 455 metres offshore discharging to a minimum depth of 27.5 metres below mean low water. The Ebbitide plant is a tricking filter type secondary plant with disinfection facilities, approximately located as shown on Site Plan A, dated June 3, 2008. The Dusty Road plant is an aeration basin type secondary plant with disinfection facilities and sludge digestion, drying and handling facilities, approximately located as shown on Site Plan B, dated June 3, 2008.

1.1.4 The location of the facilities from which the discharge originates is Lot C, Block R, D.L. 304, NWD, Plan 22755 for the Ebbitide plant and Part of Block A, D.L. 7613 for the Dusty Road plant.

The location of the point of discharge is Trail Bay fronting D.L. 303, Group 1, NWD, Reference Plan 14765.

2. GENERAL REQUIREMENTS

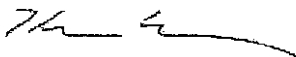
2.1 Maintenance of Works and Emergency Procedures

The permittee shall inspect the authorized works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the permittee which prevents effective operation of the authorized works or leads to unauthorized discharge, the Permittee shall comply with all applicable statutory requirements, immediately notify the Regional Manager, Environmental Protection, and take appropriate remedial action for the prevention or mitigation of pollution. The Director may reduce or suspend operations to protect the environment until the authorized works have been restored and/or corrective steps have been taken to prevent unauthorized discharges.

During and/or after the emergency event or condition, the permittee shall conduct sampling and analysis of discharges which might be non-compliant with this permit and/or applicable statutory requirements, and as they become available, provide the results to the Regional Manager, Environmental Protection, or designated Officer.

Within 30 days of the emergency event or condition, provide a report including results of sampling and analysis, non-compliance with this permit and/or applicable statutory requirements, corrections to the operational system, root cause of the emergency event or condition, and decisions for corrective and

Date issued: April 2, 1976
Date amended: October 2, 2008
(most recent)


Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region
Permit Number: 4088

preventive action.

2.2 **Bypasses**

The discharge of contaminants which have bypassed the authorized treatment works is prohibited unless the prior approval of the Director is obtained and confirmed in writing.

2.3 **Process Modifications**

The Regional Manager, Environmental Protection, shall be notified prior to implementing changes to any process that may adversely affect the quality and/or quantity of the discharge.

2.4 **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, size and colours of the sign shall be acceptable to the Director.

2.5 **Outfall Inspection**

The permittee shall have the outfall inspected once each two years by independent qualified personnel to ensure it is in good working condition. An inspection report shall be submitted to the Regional Manager, Environmental Protection, within 30 days after the inspection date. The next report shall be submitted by December 31, 2009.

2.6 **Chlorination**

Maintain a chlorine residual (at the point of discharge or prior to dechlorination) between 0.1 and 1.0 mg/L at all times and provide not less than one hour's contact time at average flow rates.

2.7 **Dechlorination**

The effluent shall be dechlorinated prior to discharge to reduce the chlorine residual below detectable limits.

2.8 **Sludge Wasting and Disposal**

Sludge wasted from the treatment plants shall be disposed of to a site and in a manner approved by the Director, or as authorized by regulation under the

Date issued: April 2, 1976
Date amended: October 2, 2008
(most recent)



Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region
Permit Number: 4088

Environmental Management Act.

2.9 **Facility Classification and Operator Certification**

The permittee shall have the works authorized by this permit classified (and the classification shall be maintained) by the Environmental Operators Certification Program Society (Society). The works shall be operated and maintained by persons certified within and according to the program provided by the Society. Certification must be completed to the satisfaction of the Director. In addition, the Regional Manager, Environmental Protection, shall be notified of the classification level of the facility and certification levels of the operators, and changes of operators and/or operator certification levels within 30 days of any change.

Alternatively, the works authorized by this permit shall be operated and maintained by persons who the permittee can demonstrate to the satisfaction of the Director, are qualified in the safe and proper operation of the facility for the protection of the environment.

3. **DISCHARGE MONITORING REQUIREMENTS**

3.1 **Composite Sampling**

A suitable sampling facility shall be installed and a composite sample of the effluent authorized by Section 1.1 shall be obtained once each month. The sample is to consist of four grab samples taken over a two hour period at maximum flow and mixed to form a single sample (or an approved flow proportional continuous sampler may be used) for subsequent analysis. Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

3.2 **Analysis**

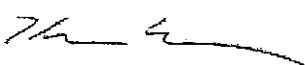
Obtain analyses of the composite sample for the following:

5-day carbonaceous biochemical oxygen demand (CBOD5), mg/L;

Total suspended solids (nonfilterable residue), mg/L;

Fecal coliform, MPN/100 mL.

Date issued: April 2, 1976
Date amended: October 2, 2008
(most recent)


Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region
Permit Number: 4088

3.3 Grab Sampling

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

3.4 Analysis

Obtain analyses of the grab sample for the following:

Fish bioassay (rainbow trout) 96 hour LC50, %;

Ammonia nitrogen, mg/L.

3.5 Flow Measurement

The permittee shall install and maintain a suitable flow measuring device and record once per day the effluent volume discharged over a 24 hour period.

4. RECEIVING ENVIRONMENT MONITORING REQUIREMENTS

4.1 Grab Sampling

A grab sample of the marine water shall be obtained once each three months, at the four sites listed below, approximately as shown on attached Site Plan C, dated June 3, 2008. Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

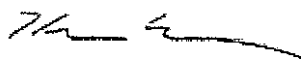
Reference No. E219508 - Foot of Inlet Avenue;
Reference No. E219509 - Foot of Selma Park Road;
Reference No. E219510 - Foot of Shorn Cliff Road; and
Reference No. E219511 - Near Mission Point.

4.2 Analyses

Obtain analyses for each of the four grab samples for the following:

Fecal coliform, MPN/100 mL.

Date issued: April 2, 1976
Date amended: October 2, 2008
(most recent)



Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region
Permit Number: 4088

5. MONITORING PROCEDURES

5.1 Sampling Procedures

Sampling is to be carried out in accordance with the procedures described in the most recent edition of the "British Columbia Field Sampling Manual for Continuous Monitoring Plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples", or by suitable alternative procedures as authorized by the Director.

A copy of the above manual may be purchased from the Queen's Printer Publications Centre, P. O. Box 9452, Stn. Prov. Gov't. Victoria, British Columbia, V8W 9V7 (1-800-663-6105 or (250) 387-6409). A copy of the manual is also available for inspection at all Environmental Protection offices.

5.2 Analytical Procedures

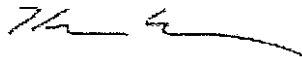
Analyses are to be carried out in accordance with procedures described in the most recent edition of the "British Columbia Laboratory Methods Manual for the Analysis of Water, Wastewater, Sediment, Biological Materials and Discrete Ambient Air Samples", or by suitable alternative procedures as authorized by the Director.

A copy of the above manual may be purchased from the Queen's Printer Publication Centre, P. O. Box 9452, Stn. Prov. Gov't. Victoria, British Columbia, V8W 9V7 (1-800-663-6105 or (250) 387-6409). The manual is also available for review at all Environmental Protection offices.

5.3 Quality Assurance

All analyses of samples shall be conducted by a laboratory acceptable to the Director. At the request of the Director, the permittee shall provide the laboratory quality assurance data, associated field blanks and duplicate analysis results along with the submission of data required under Sections 3 and 4 of this permit.

Date issued: April 2, 1976
Date amended: October 2, 2008
(most recent)

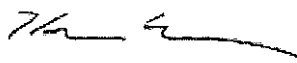

Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region
Permit Number: 4088

6. REPORTING

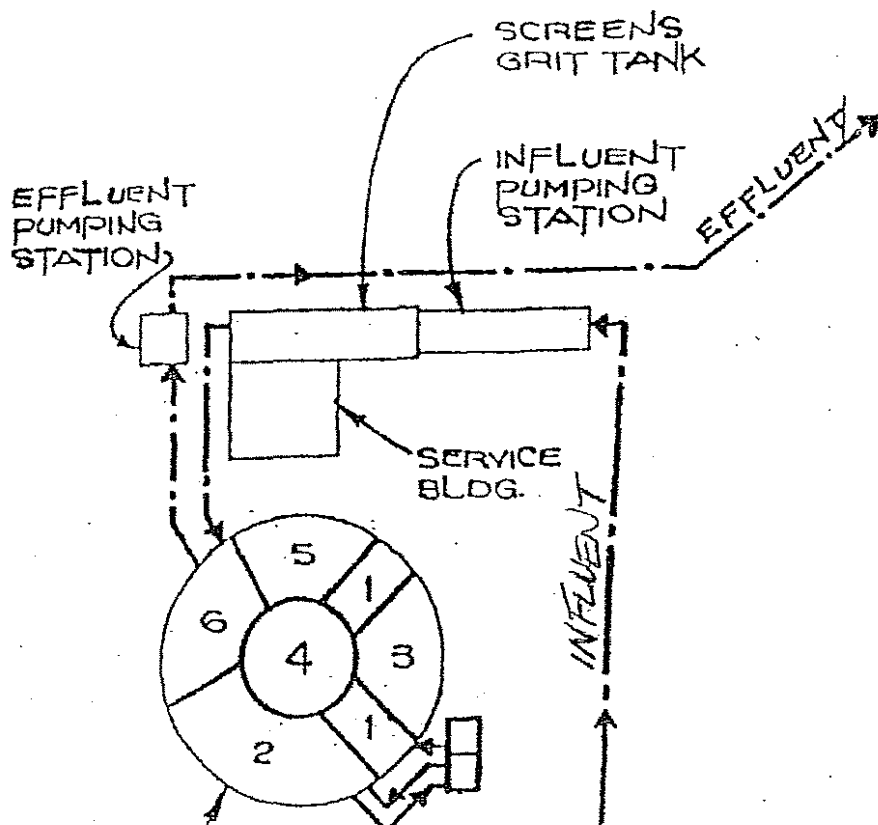
The permittee shall maintain data of analyses for Sections 3 and 4 and flow measurement data for Section 3 in a form suitable for inspection by the Director and submit the data, suitably tabulated, to the Regional Manager, Environmental Protection, for the previous six months. The reporting periods end March 31 and September 30 each year. All reports shall be submitted within 31 days of the end of the reporting period.

Each data submission shall include a statement outlining the reported values that were outside the permit limits. Clearly identify the dates of these occurrences in the data submission, include an explanation as to the cause of each occurrence and provide a description of the measures taken to rectify the situation. Should all submitted values be within the permit limits, a statement to this effect shall be included.

Date issued: April 2, 1976
Date amended: October 2, 2008
(most recent)


Kevin Larsen
for Director, *Environmental Management Act*
Lower Mainland Region
Permit Number: 4088

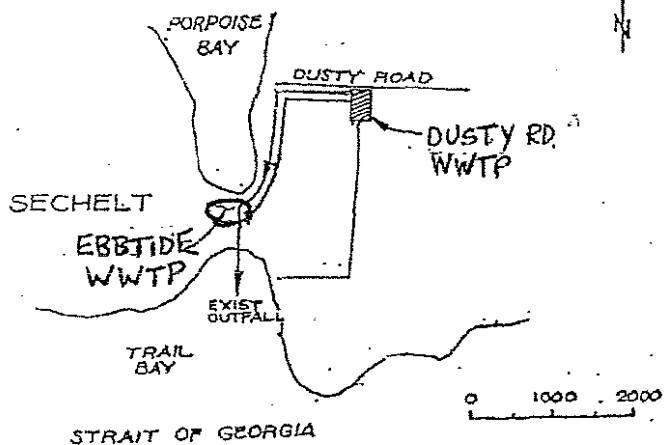
SITE PLAN A



EXISTING TANK
CONTAINING:

1. TWO PRIMARY SED. TANKS
2. TRICKLING FILTER
3. REAERATION TANK
4. SECONDARY CLARIFIER
5. CHLORINATION AND DECHLORINATION
6. SPACE FOR EXPANSION

Location Map



Scale 1:500

Permit 4088

Date: June 3, 2008

SITE PLAN B



CHLORINATION &
DECHLORINATION
CONTACT TANK

SEC. SED. TANK

AERATED
DIGESTER

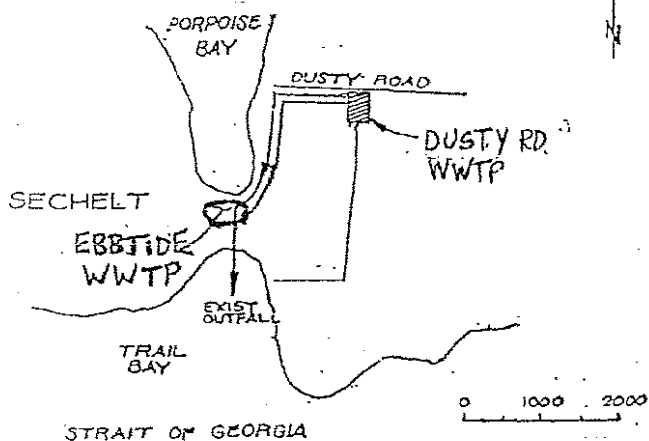
LINED SLUDGE
DRYING BASINS

DUSTY ROAD

CONC. SEPTAGE
PUMP OUT FACILITY

AERATED BASIN
6000 m³ VOL.

Location Map

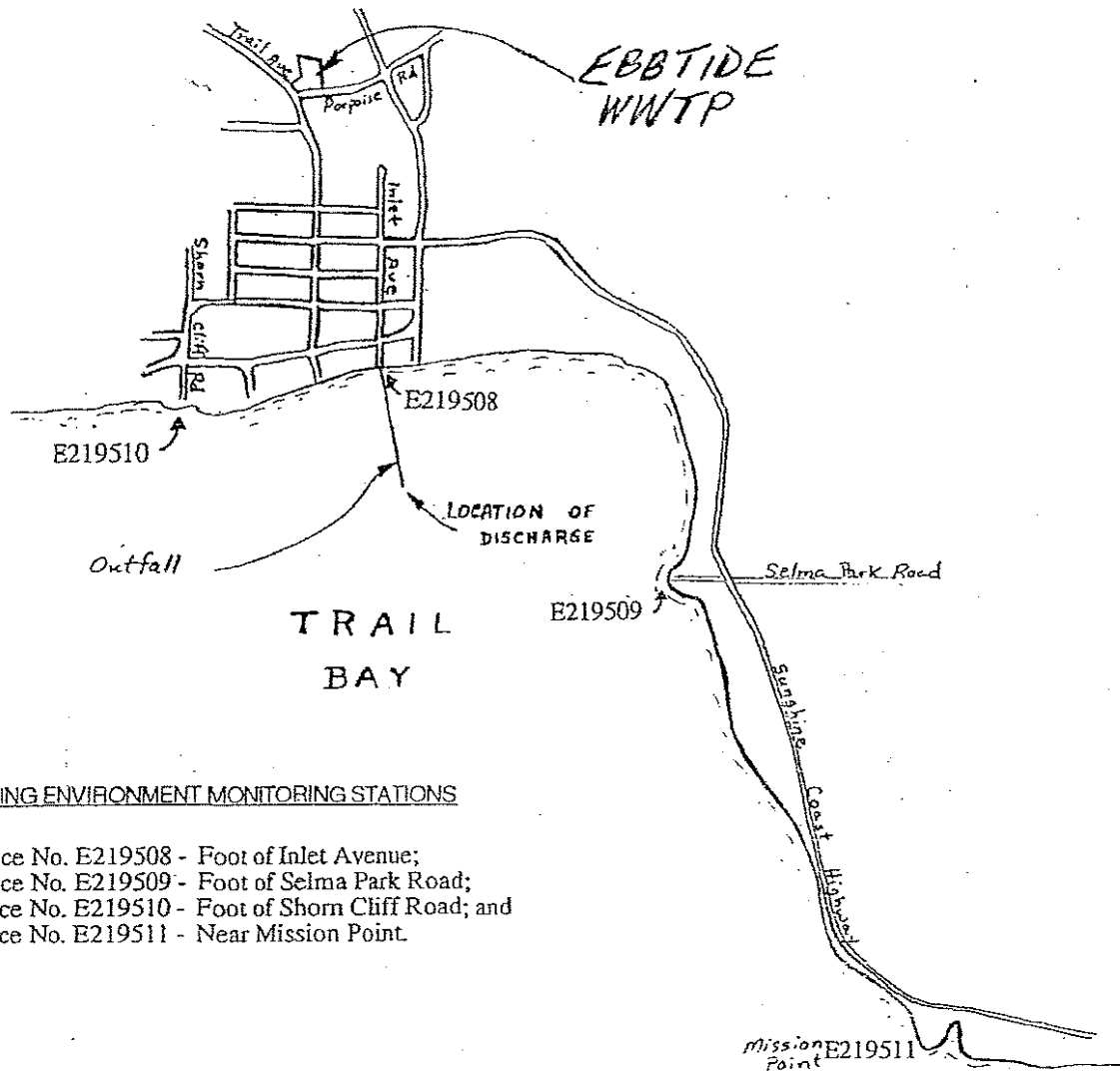


Scale 1:3500

Permit 4088

Date: June 3, 2008

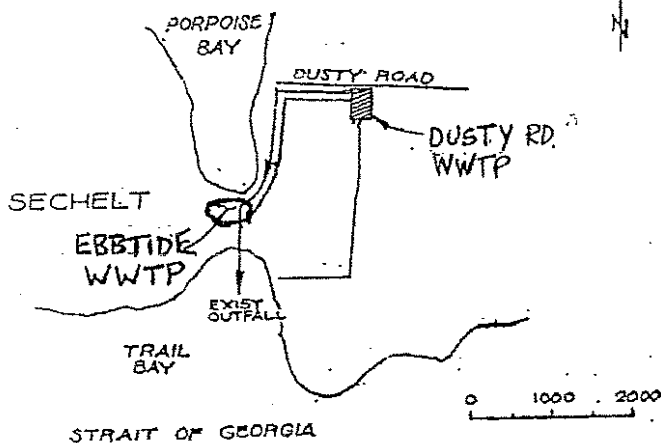
SITE PLAN C



RECEIVING ENVIRONMENT MONITORING STATIONS

Reference No. E219508 - Foot of Inlet Avenue;
Reference No. E219509 - Foot of Selma Park Road;
Reference No. E219510 - Foot of Shorn Cliff Road; and
Reference No. E219511 - Near Mission Point.

Location Map



Scale 1:26100

Permit 4088

Date: June 3, 2008