



BRITISH
COLUMBIA

Date: OCT 26 2000

File: PE-00335

REGISTERED MAIL

SCOTT PAPER LIMITED/PAPIERS SCOTT LIMITEE
2800 Park Place
666 Burrard Street
Vancouver, British Columbia V6C 2Z7

Dear Permittee:

Enclosed is amended Permit PE-00335 issued under the provisions of the *Waste Management Act*. Your attention is respectfully directed to the conditions of the permit. An annual fee for the permit will be determined in accordance with the Waste Management 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. It is also the responsibility of the permittee to ensure that all activities conducted under this permit are carried out with due regard to the rights of third parties, and comply with other applicable legislation that may be in force.

This decision may be appealed by persons aggrieved by the decision in accordance with Part 7 of the *Waste Management Act*. Notice of the appeal must (1) be in writing, (2) include the grounds for appeal, (3) be directed by registered mail or personally delivered to the Chair, Environmental Appeal Board, 4th Floor 836 Yates Street, Victoria, British Columbia, V8W 9V1, (4) be delivered within 30 days from the date notice of the decision is given, and (5) be accompanied by a fee of \$25.00, payable to the Minister of Finance and Corporate Relations.

Administration of this permit will be carried out by staff from our regional office located at 10470 - 152nd Street, Surrey, British Columbia, V3R 0Y3. Plans, data and reports pertinent to the permit are to be submitted to the Regional Waste Manager at this address.

Yours truly,

R.H. Robb
Assistant Regional Waste Manager

enclosure

cc: Environment Canada
Scott Paper Limited
1625 - 5th Avenue
New Westminster BC V3M 1Z7

Ministry of
Environment,
Lands and Parks

BC Environment
Lower Mainland Region
Pollution Prevention

Mailing/Location Address:
10470 152 Street
SURREY BC V3R 0Y3

Telephone: (604) 582-5248
Facsimile: (604) 584-9751
or (604) 582-5335



MINISTRY OF ENVIRONMENT,
LANDS AND PARKS

**PERMIT
PE-00335**

Under the Provisions of the Waste Management Act

SCOTT PAPER LIMITED / PAPIERS SCOTT LIMITEE

2800 Park Place

666 Burrard Street

Vancouver , British Columbia

V6C 2Z7

is authorized to discharge effluent to the North Arm of the Fraser River from a groundwood pulp and paper mill located at 1625 5th Avenue, New Westminster, 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 the **paper mill**. The site reference number for this discharge is E208252.

1.1.1 The authorized rate of discharge is a maximum of 23 000 cubic metres per day and a monthly average of 17 000 cubic metres per day. The authorized discharge period is continuous.

1.1.2 The characteristics of the discharge shall be:

Total Suspended Solids (TSS)

Daily Maximum (24-hour composite) ≤157. mg/L;

Monthly Average (24-hour composite) ≤157. mg/L;

A handwritten signature in black ink, appearing to read "R.H. Robb", is written over a horizontal line.

R.H. Robb
Assistant Regional Waste Manager

5-Day Biochemical Oxygen Demand (BOD ₅)	
Daily Maximum (24-hour composite)	≤139. mg/L;
Monthly Average (24-hour composite)	≤139. mg/L;
Rainbow trout 96HRLC50	100. % (V/V), minimum;
pH range	6.0 - 8.0 pH units;
Temperature	35 ⁰ C, maximum;
Dissolved Oxygen	
Daily Minimum	4.0 mg/L, minimum;
Monthly Average	5.0 mg/L, minimum.

1.1.3 The authorized works are in-plant fibre recovery facilities, three clarifying units, wharf lagoon, sludge press, submerged outfall, 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 Parcel Z, Suburban Block 9, Plan 74280, New Westminster Group 1 Land District & Water Lots Fronting PCL S33.00 FRHC Map Sheet 9, PID-007-208-201, Plan 79290, New Westminster Group 1 Land District, Lot 1, Suburban Block 9 & Bed of the Fraser River PID-012-237-171.

1.1.5 The legal description for the location of the point of discharge is the Water Lots described in **1.1.4** above.

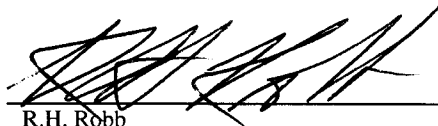
1.2 This subsection applies to the discharge of cooling water and uncontaminated process water. The site reference number for this discharge is E208251.

1.2.1 The authorized rate of discharge is a maximum of 1 150 cubic metres per day and a weekly average of 910 cubic metres per day. The authorized discharge period is continuous.

1.2.2 The characteristics of the discharge shall be:

Total Suspended Solids (TSS)	
Daily Maximum	10.mg/L;
5-Day Biochemical Oxygen Demand (BOD ₅)	
Daily Maximum	10.mg/L;
Rainbow trout 96HRLC20	100.% (V/V), minimum;
PH range	6.0 – 8.0 pH units;
Temperature	35 ⁰ C, maximum.

1.2.3 The authorized works are a submerged outfall, and related appurtenances, approximately located as shown on attached Site Plan A.



1.2.4 The legal description for the location of the facilities from which the discharge originates is Parcel Z, Suburban Block 9, Plan 74280, New Westminster Group 1 Land District & Water Lots Fronting PCL S33.00 FRHC Map Sheet 9, PID-007-208-201, Plan 79290, New Westminster Group 1 Land District, Lot 1, Suburban Block 9 & Bed of the Fraser River PID-012-237-171.

1.2.5 The legal description for the location of the point of discharge is the Water Lots described in 1.1.4 above.

2. GENERAL REQUIREMENTS

2.1 Additional Treatment

If the Permittee is not meeting the effluent characteristics specified in this Permit or the Permittee is causing an adverse impact on the fisheries resource in the Fraser River, the Regional Waste Manager may require the Permittee to install additional treatment works or implement other measures necessary to meet Permit conditions or to prevent the impact on the fisheries resource.

2.2 Effluent Quality Limits

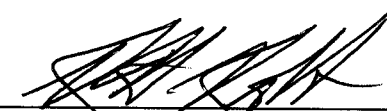
Based on results of the monitoring program or other information, the Regional Waste Manager may specify additional effluent quality limits and the sampling methods or frequencies the limits are based on.

2.3 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.

2.4 Allowable Effluent Concentrations

The allowable concentrations (mg/L) of TSS and BOD₅ for the discharge described in Subsection 1.1 above, are based on the 90th percentile production and flow rates for the period September 1, 1999 to December 31, 1999 as submitted by the Permittee. The 90th percentile rates are the total production rate (PROD) of 299 ADt/d and an effluent discharge rate (EFF) of 16 169 cubic metres per day. At allowable levels of 8.5 kg/ADt for daily maximum and monthly average TSS and 7.5 kg/ADt for daily maximum and monthly average BOD₅, the allowable effluent concentrations have been calculated as follows:



R.H. Robb
Assistant Regional Waste Manager

TSS (daily maximum and monthly average)
 $= 8.5 \text{ kg/ADt} \times 299 \text{ ADt/d} \div 16169 \text{ m}^3/\text{d} \times 1000 = 157 \text{ mg/L};$

BOD5 (daily maximum and monthly average)
 $= 7.5 \text{ kg/ADt} \times 299 \text{ ADt/d} \div 16169 \text{ m}^3/\text{d} \times 1000 = 139 \text{ mg/L}.$

The Regional Waste Manager may amend the allowable effluent concentrations based on 90th percentile production and flow rates as submitted annually or based on other information obtained.

2.5 Process Modifications

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

2.6 Posting of Outfall

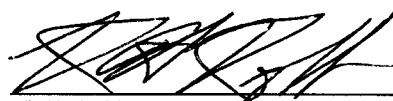
A sign shall be erected along the alignment of the outfall above high water mark. The sign shall identify the nature of the works. The wording and size of the sign shall be approved by the Regional Waste Manager.

2.7 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 continues 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. It can be demonstrated that everything possible is being done to restore compliance in the shortest possible time.

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.



R.H. Robb
Assistant Regional Waste Manager

Notwithstanding the above, the Permittee is required to adhere to all federal legislation, including but not limited to the *Pulp and Paper Effluent Regulations (SOR/92-269 as amended by SOR/96-293 and SOR/99-166)*, the *Pulp and Paper Mill Defoamer and Wood Chip Regulations (SOR/92-268)*, whether or not an emergency exists.

2.8 Foam

Should foam, attributable to the effluent, become objectionable on the receiving waters, the permit may be amended by the Regional Waste Manager to require additional treatment to eliminate the foam. Alternatively, measures may be implemented to eliminate the cause of the foam.

2.9 Sludge Wasting and Disposal

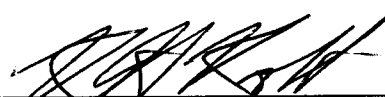
Sludge wasted from the treatment plant shall be disposed of to a site and in a manner in accordance with the Waste Management Act.

2.10 Colour

Should colour, attributable to the effluent, become objectionable in the receiving environment, the permit may be amended by the Regional Waste Manager to require additional treatment to remove colour forming constituents from the effluent prior to discharge.

2.11 Compliance with Federal Pulp and Paper Effluent Regulations

Notwithstanding the requirements in this permit, the Permittee is required to adhere to all applicable legislation including the federal *Pulp and Paper Effluent Regulations (SOR/92-269 as amended by SOR/96-293 and SOR/99-166 and as amended from time to time)*, the *Pulp and Paper Mill Defoamer and Wood Chip Regulations (SOR/92-268 as amended by SOR/94-364 and as amended from time to time)*. Where there is an apparent conflict between federal and provincial requirements, the more stringent requirements will apply.



R.H. Robb
Assistant Regional Waste Manager

2.12 Emergency Response Plan

The Permittee shall prepare and submit an Emergency Response Plan that describes the procedures to be taken to prevent or mitigate any deposit of deleterious substance out of the normal course of events. The Emergency Response Plan shall be immediately implemented if there is a deposit, or any risk of a deposit, of a deleterious substance out of the normal course of events. In addition, an up-dated emergency response plan, including a report on any emergency responses taken in the previous year, shall be submitted by January 31 of each year. The Permittee shall also prepare, update annually and keep available for inspection, a remedial plan describing procedures to be taken by the Permittee to eliminate all unauthorized deposits of deleterious substances if the effluent fails an acute lethality test using rainbow trout.

3. MONITORING AND REPORTING REQUIREMENTS

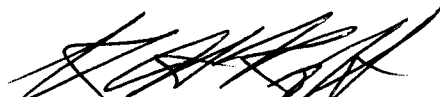
The following monitoring program shall be undertaken by the Permittee. The Regional Waste Manager may modify the program based on results submitted or any other data obtained by Pollution Prevention Staff.

3.1 Discharge Monitoring

3.1.1 Grab and Composite Sampling

The Permittee shall install suitable sampling facilities and obtain grab and composite samples of the effluent as specified below. Composite samples shall be taken using a method acceptable to the Regional Waste Manager. Proper care should be taken in sampling, storing and transporting the samples to adequately control temperature and avoid contamination, breakage, etc.

The effluent sampling and monitoring locations shall be as shown on the attached Site Plan A.



R.H. Robb
Assistant Regional Waste Manager

3.1.2 Analyses

Obtain samples and analyses of the samples of the effluent discharges (Subsections 1.1 and 1.2) as follows:

<u>Parameter</u>	<u>Effluent Sampling Types and Frequencies</u>	
	(1.1)	(1.2)*
(Unless otherwise specified, the units are mg/L.)		
pH (pH units)	CONT	CONT
Conductivity (µS/cm)	CONT	CONT
Temperature (°C)	CONT	CONT
Dissolved Oxygen	G(5/W)	
Toxicity		
Rainbow trout 96HRLC50	G(M)	
Rainbow trout 96HRLC20		G(M)
<i>Daphnia magna</i> 48HRLC50	G(W)	G(W)
TSS	C(D)	C(M)
BOD ₅	C(3/W)	C(M)

CONT = continuous monitoring
 G = grab sample
 C = 24 hour composite sample (as described in B.C. Reg. 470/90)
 D = daily when an effluent is being discharged
 W = once per week
 3/W = three times per week
 5/W = five times per week
 M = once per month
 * = monitoring to commence upon discharge occurring

3.1.3 Toxicity Monitoring

For the discharges described in Subsections 1.1 and 1.2 above, rainbow trout toxicity testing shall be increased from once per month to once per week if a sample of effluent fails the rainbow trout toxicity test. Samples shall continue to be collected and tested on one day each week until they pass three consecutive tests, at which time testing can revert to once per month.

Daphnia magna toxicity testing shall be conducted once per week as described above. However, if a sample of effluent fails the *Daphnia magna* toxicity test, a sample of effluent shall be collected without delay and tested for 96HRLC50 using rainbow trout. Samples shall continue to be collected and tested on three days each week for 48HRLC50 using *Daphnia magna* until they pass three consecutive tests, at which time testing can revert to once per week.



R.H. Robb
Assistant Regional Waste Manager

For 96HRLC50, the percent of fish survival after 96 hours in the undiluted sample shall also be recorded. For 48HRLC50 tests, the percent of *Daphnia magna* survival after 48 hours in the undiluted sample shall also be recorded.

The test to determine the acute lethality of effluent shall be in accordance with Section 5 or 6 of the Reference Method for Determining the Acute Lethality of Effluent to Rainbow Trout, Department of the Environment Report, EPS 1/RM/13, July 1990, as amended from time to time. The *Daphnia Magna* test shall be in accordance with Section 5 or 6 of the Reference Method for Determining the Acute Lethality of Effluent to *Daphnia magna*, Department of the Environment Report, EPS 1/RM/14, July 1990, as amended from time to time.

3.1.4 Continuous Monitoring

The minimum, maximum and average daily values shall be recorded for pH. For temperature and conductivity, the maximum and average daily values shall be recorded.

3.1.5 TSS and BOD₅ Values

The monthly minimum, maximum and average values (mg/L) shall be recorded for TSS and BOD₅. In addition, the actual kg/d and kg/ADt values shall be recorded for TSS and BOD₅.

3.1.6 Flow Measurement

Provide and maintain suitable flow measuring devices and record.

Once per day the effluent volume (m³/d) discharged over a 24-hour period via the diffuser outfalls specified in Subsections 1.1 and 1.2.

Once per year, determine the 90th percentile of effluent volumes discharged via the diffuser outfall specified in Subsection 1.1 (m³/d) based on effluent volumes recorded during the previous calendar year.

Flow monitoring equipment shall be calibrated to be accurate to within 10 percent.



3.2 Production Figures

Record once per day the total mill machine production in ADt/d.

Once per year, determine the 90th percentile of total mill machine production in ADt/d during the same calendar year period used to determine 90th percentile of effluent volumes. In addition, determine the highest 90th percentile of total mill machine production based on 90th percentile values calculated each year for the previous three calendar year period.

3.3 Wastewater Treatment Review Report

Once per year, submit a wastewater treatment review report which assesses the performance of the effluent treatment system over the previous year. The report shall contain a summary of any permit noncompliances, the reasons for the noncompliances and the remedial action taken or required to prevent future noncompliances.

3.4 Environmental Study

The Permittee shall retain a qualified consultant to carry out a study, as required by federal regulation, on the environmental impact of the effluent discharges on the Fraser River. The study shall be undertaken subject to consultation with and approval of the Regional Waste Manager. It shall include but not be limited to:

- (1) Results of environmental effects monitoring required by Environment Canada for Scott Paper Limited.
- (2) A comparison of results with previous data using graphs and tables and a discussion on whether the environmental impact is increasing or decreasing,
- (3) Any other monitoring that is required to assess the environmental impact.

Based on the results of the studies or other information, the Regional Waste Manager may modify the environmental study requirements.

3.5 Monitoring Procedures

3.5.1 Sampling Procedures

Sampling is to be carried out in accordance with procedures described in the latest version of "British Columbia Field Sampling Manual for Continuous Monitoring plus the Collection of Air, Air-Emission, Water, Wastewater, Soil, Sediment, and Biological Samples, 1996 Edition (Permittee)," or by suitable alternative procedures as authorized by the Regional Waste Manager.

A copy of the above manual may be purchased from Queen's Printer Publications Centre, P. O. Box 9452, Stn. Prov. Govt. Victoria, British Columbia, V8W 9V7 (1-800-663-6105 or (250) 387-4609). A copy of the manual is also available for inspection at all Pollution Prevention offices.

3.5.2 Chemical Analyses

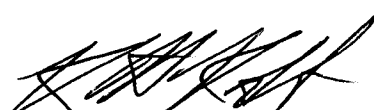
Analyses are to be carried out in accordance with procedures described in the latest version of "British Columbia Environmental Laboratory Manual for the Analysis of Water, Wastewater, Sediment and Biological Materials (March 1994 Permittee Edition)", or by suitable alternative procedures as authorized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

A copy of the above manual may be purchased from Queen's Printer Publications Centre, P. O. Box 9452, Stn. Prov. Govt. Victoria, British Columbia, V8W 9V7 (1-800-663-6105 or (250) 387-4609). A copy of the manual is also available for inspection at all Pollution Prevention Offices.

3.5.3 Quality Assurance

All data analyses required to be submitted by the permit shall be conducted by a laboratory acceptable to the Regional Waste Manager.

If monitoring of permitted parameters is conducted by an on-site laboratory, the permittee shall submit a report outlining the Quality Assurance protocol proposed for each parameter. The report is to be submitted to the Regional Waste Manager within three months following the issuance of this permit amendment, or within three months of starting to use an on-site laboratory for a new parameter. The report shall include but not be limited to the following:



R.H. Robb
Assistant Regional Waste Manager

1. The ratio of samples to blanks, for each parameter, and the acceptable blank values;
2. The ratio of samples to duplicates, for each parameter, and the acceptable relative percent difference between duplicates;
3. The ratio of samples to reference standards, for each parameter, and the acceptable percent recovery for reference standards; and
4. The corrective measures to be taken if duplicates, blanks or reference standards are outside acceptable ranges.

At the request of the Regional Waste Manager, the permittee shall submit all relevant quality assurance information from the on-site, or contracted laboratory.

3.6 Reporting

Maintain data of analyses, flow measurements, production figures, and contaminant loadings (kg/d, kg/month and kg/ADt) for inspection and submit the data, in hard copy or electronic format as specified by the Regional Waste Manager for the previous calendar month. The results of any additional BOD5 and toxicity testing conducted on the authorized discharge by the Permittee shall also be submitted. The report is to be submitted once per month. Subsequent reports shall be submitted within 30 days of the end of the reporting period.

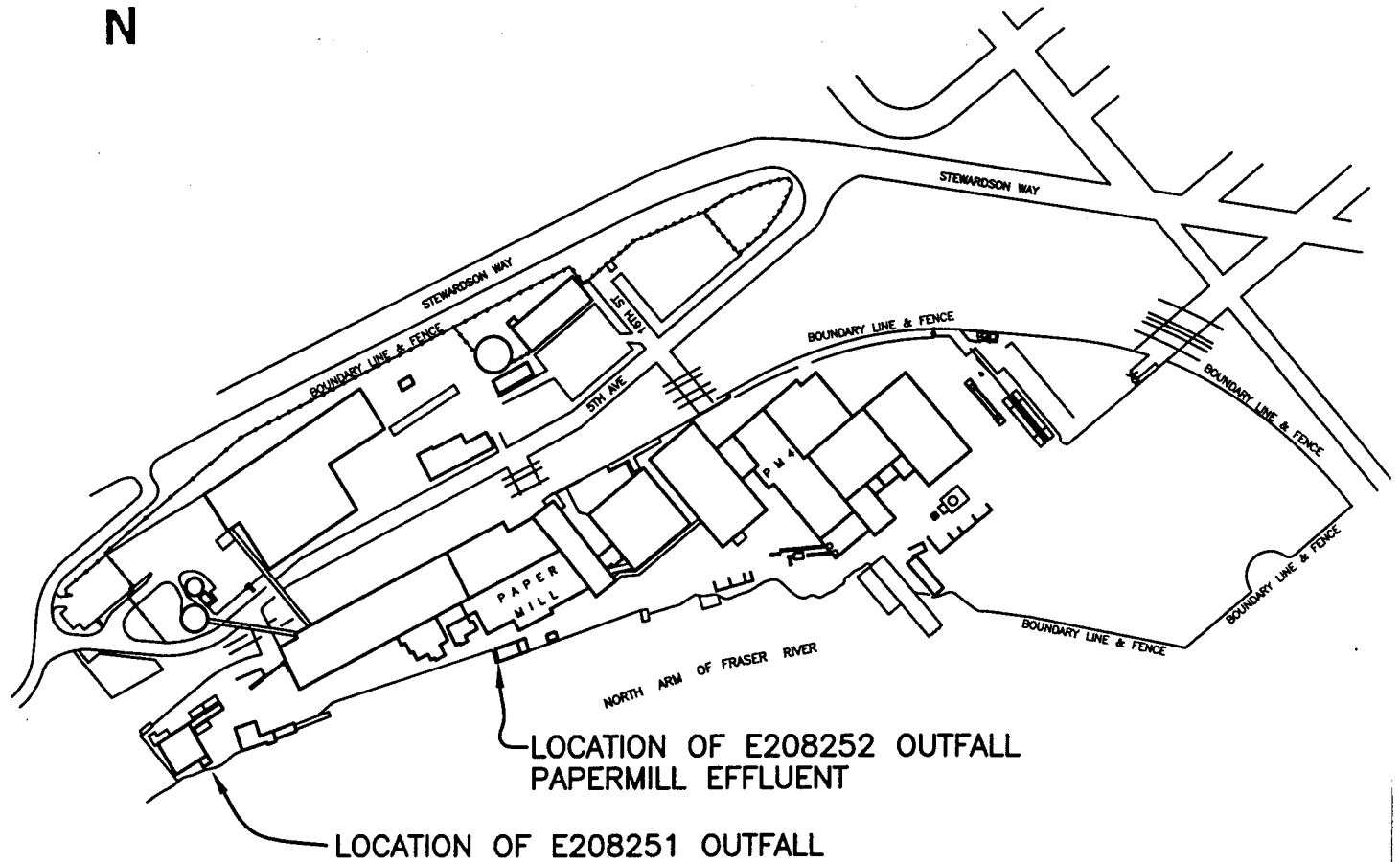
The next annual environmental study, wastewater treatment review report and 90th percentile values shall be submitted by January 30, 2001.

The next annual up-date of the Emergency Response Plan, including a record of any emergency responses taken during the previous year, shall be submitted by January 30, 2001.

The Permittee shall report any deposits out of the normal course of events, in an acceptable format, as required by federal regulation.

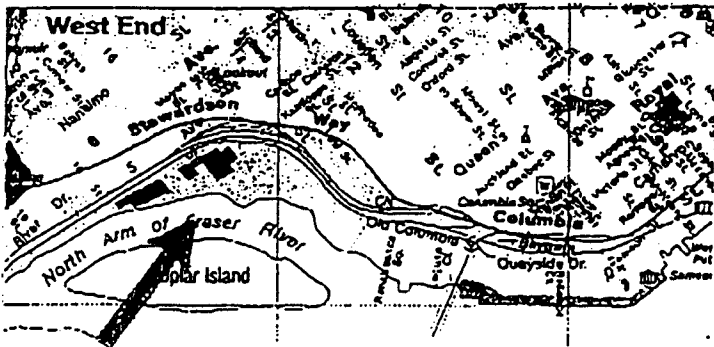
The Permittee shall submit monitoring results as required by federal regulation for the Environmental Effects Monitoring program.

SITE PLAN



LEGAL DESCRIPTION: Parcel Z, Suburban Block 9, Plan 74280, New Westminster Group 1 Land District & Water Lots Fronting PCL S33.00 FRHC Map Sheet 9, PID-007-208-201, Plan 79290, New Westminster Group 1 Land District, Lot 1, Suburban Block 9 & Bed of the Fraser River PID-012-237-171

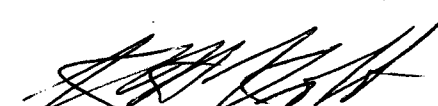
Location Map



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Site Plan A.

PE-00335


R.H. Robb, Assistant Regional Waste Manager

OCT 26 2000