



MAR 30 1990

YOUR FILE _____
OUR FILE PA-7965

DOUBLE REGISTERED

IMPERIAL PAVING LIMITED
2100 One Bentall Centre
505 Burrard Street
Vancouver, British Columbia
V7X 1R4

Gentlemen:

LETTER OF TRANSMITTAL

Enclosed is a copy of amended Permit No. **PA-7965** issued under the provisions of the Waste Management Act in the name of **IMPERIAL PAVING LIMITED**. Your attention is respectfully directed to the terms and conditions outlined in the Permit. An annual fee for Permit No. PA-7965 will be determined on the basis of your industrial code and capacity in accordance with the Waste Management Fees Regulation.

The administration of this Permit will be carried out by staff from our Regional Office located at 15326 - 103A Avenue, Surrey, British Columbia, V3R 7A2, (telephone: 584-8822). Plans, data and reports pertinent to the Permit are to be submitted to the Regional Waste Manager at this address.

You will note that values have been expressed in the International System of Units (SI). These units are to be used in submitting monitoring results and any other information in connection with this Permit.

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 shall rest with the Permittee.

Yours very truly,

H. Y. Wong,
Regional Waste Manager

Enc.



MINISTRY OF ENVIRONMENT

PERMIT

Under the Provisions of the Waste Management Act

IMPERIAL PAVING LIMITED.

2100 One Bentall Centre

505 Burrard Street

Vancouver, British Columbia

V7X 1R4

is hereby authorized to discharge contaminants to the air and effluent to the land
from an asphalt plant
located approximately 9 km north of Mission on Dewdney Trunk Road.

This permit has been issued under the terms and
conditions prescribed in the attached appendices:

01, 02, 03, 04, A-1, B-1 and C-1


Regional Waste Manager

Permit No. PA-7965

Date Issued December 23, 1988

Date Amended MAR 30 1990



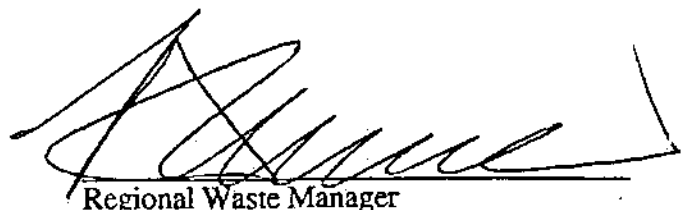
MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX 01
to Permit No. PA-7965

- (A) The discharge of contaminants into the air to which this appendix is applicable is from an asphalt plant wet scrubber stack, identified as 01 shown on the attached Appendix A-1.
- (B) The rate of discharge authorized is:
- Maximum: 990 m³/min;
- Duration: 10 hours/day;
- Frequency: 6 days/week.
- (C) The characteristics of the contaminants shall be equivalent to or better than:
- Contaminant: Particulate matter;
- Maximum Concentration: 230 mg/m³;
- Duration: 10 hours/day;
- Frequency: 6 days/week.
- NOTE: All air and gaseous volumes specified in (B) and (C) above are at standard conditions. These conditions are: Standard temperature = 293.15 °K;
Standard pressure = 101.325 KPa;
Water Vapour Zero unless otherwise stated.
- (D) The works authorized are a wet scrubber, stack and related appurtenances approximately located as shown on the attached Appendix A-1.
- (E) The location of the facilities from which the discharge originates and to which this appendix is appurtenant is L.2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (F) The works authorized must be complete and in operation on and from the date of this appendix.

Date Issued December 23, 1988

Date Amended MAR 30 1990


Regional Waste Manager



MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX 02
to Permit No. PA-7965

- (A) The discharge of contaminants into the air to which this appendix is applicable is from a propane fired heater for the asphalt tank, identified as 02 shown on the attached Appendix A-1.
- (B) The rate of discharge authorized is:
- Maximum: 15 m³/min;
- Duration: 24 hours/day;
- Frequency: Continuous.
- NOTE: All air and gaseous volumes specified in (B) above are at standard conditions.
These conditions are: Standard temperature = 293.15 °K;
Standard pressure = 101.325 KPa;
Water Vapour Zero unless otherwise stated.
- (C) The characteristics of the contaminants shall be equivalent to or better than:
- Contaminant: Typical combustion products of propane;
- Duration: 24 hours/day;
- Frequency: Continuous.
- (D) The works authorized are a propane torch heater, stack and related appurtenances approximately located as shown on the attached Appendix A-1.
- (E) The location of the facilities from which the discharge originates and to which this appendix is appurtenant is L.2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (F) The works authorized must be complete and in operation on and from the date of this appendix.

Date Issued December 23, 1988

Date Amended MAR 30 1990


Regional Waste Manager



MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX 03

to Permit No. PA-7965

(A) The discharge of contaminants into the air to which this appendix is applicable is from a diesel oil power generator, identified as 03 shown on the attached Appendix A-1.

(B) The rate of discharge authorized is:

Maximum: 10 m³/min;

Duration: 10 hours/day;

Frequency: 6 days/week.

NOTE: All air and gaseous volumes specified in (B) above are at standard conditions.
These conditions are: Standard temperature = 293.15 °K;
Standard pressure = 101.325 KPa;
Water Vapour Zero unless otherwise stated.

(C) The characteristics of the contaminants shall be equivalent to or better than:

Contaminant: Typical combustion products of diesel oil;

Duration: 10 hours/day;

Frequency: 6 days/week.

(D) The works authorized are a stack and related appurtenances approximately located as shown on the attached Appendix A-1.

(E) The location of the facilities from which the discharge originates and to which this appendix is appurtenant is L.2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.

(F) The works authorized must be complete and in operation on and from the date of this appendix.

Date Issued December 23, 1988

Date Amended MAR 30 1990

Regional Waste Manager

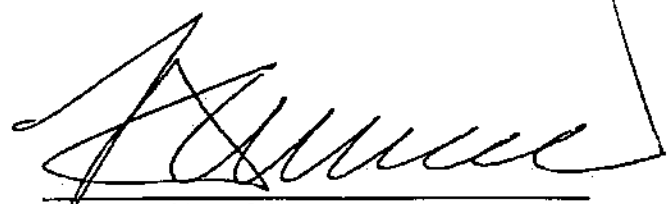


MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX 04
to Permit No. PA-7965

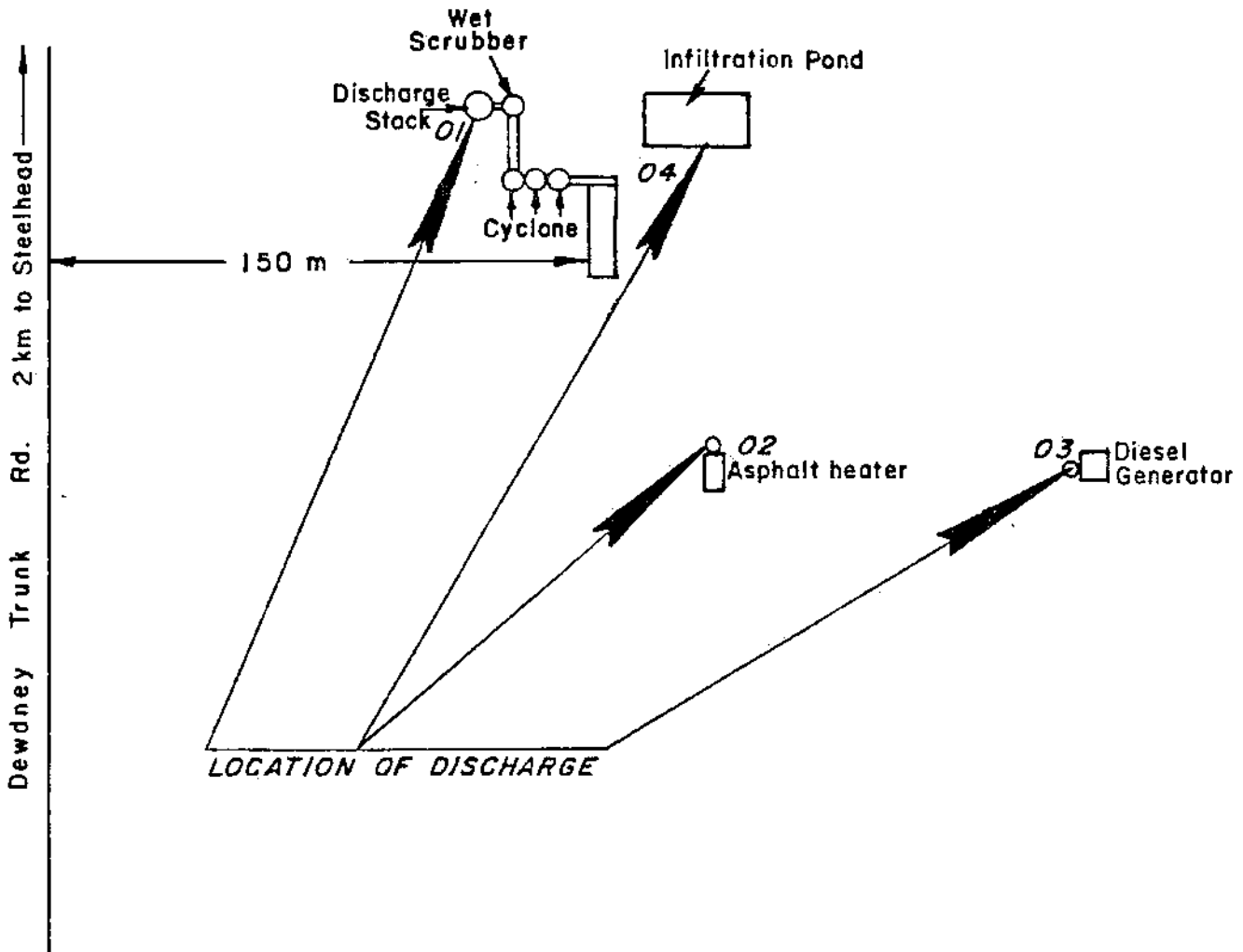
- (A) The discharge of effluent to which this appendix is applicable is from the wet scrubber to the infiltration pond, identified as 04 shown on the attached Appendix A-1.
- (B) The maximum rate at which effluent may be discharged is 150 cubic metres per day.
- (C) The characteristics of the effluent shall be equivalent to those of typical effluent originating from an asphalt plant wet scrubber.
- (D) The works authorized are an infiltration pond and related appurtenances approximately located as shown on the attached Appendix A-1.
- (E) The location of the facilities from which the effluent originates and to which this appendix is appurtenant is L.2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (F) The location of the point of discharge and to which this appendix is appurtenant is L.2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (G) The works authorized must be complete and in operation on and from the date of this appendix.

Date Issued December 23, 1988
Date Amended MAR 30 1990


Regional Waste Manager



SITE PLAN
Scale 1:4000



LEGAL DESCRIPTION OF SITE

L. 2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.

LOCATION MAP
Scale 0 1.0 km



IMPERIAL PAVING LIMITED

(Name of applicant(s))

(Date)

(Signature of applicant(s) or agent)

(FOR OFFICE USE ONLY)

Dec. 23, 1988

Date Issued

MAR 30 1990

Date Amended

Regional Waste Manager

Appendix A-1 to Permit No. PA-7965

Approval No.



MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX B-1
to Permit No. PA-7965

A. FUGITIVE DUST CONTROL

The Permittee shall suppress fugitive dust created within the operation area and will maintain, at points designated by the Regional Waste Manager, an ambient air quality in terms of total dustfall equal to or better than 2.90 milligrams per square decimetre per day.

Should this ambient level be exceeded at any of the designated points, the Permittee may be required to provide and implement the additional controls that are considered necessary.

B. BYPASSES

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

C. PROCESS MODIFICATIONS

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

D. MAINTENANCE OF WORKS

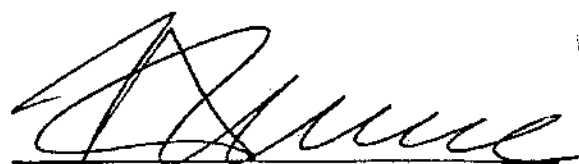
The Permittee shall inspect the pollution control works regularly and maintain them in good working order. Notify the Regional Waste Manager of any malfunction of these works.

E. INFILTRATION POND

- (1) There shall be no overflow from the infiltration pond to the receiving environment.
- (2) Surface drainage shall be diverted away from the infiltration pond.
- (3) The residue, removed from the infiltration pond shall be disposed of in a manner approved by the Regional Waste Manager.

Date Issued December 23, 1988

Date Amended MAR 30 1990


Regional Waste Manager



MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX C-1

to Permit No. PA-7965

1. SOURCE TESTING

The Permittee shall sample the emission from the wet scrubber stack authorized by Appendix 01 by August 31, 1990 and once a year thereafter.

The duration of sampling is to be representative of the equipment's operation. Determine the concentration of particulates in mg/m^3 . Measure and record on the day of sampling, the average daily rate of emission discharge for the wet scrubber stack in m^3/min , based on the normal operating period.

Source testing procedures for the determination of particulate matter concentrations and the rate of discharge (flow rate) are to be carried out in accordance with those procedures described in the "Source Testing Code for the Measurement of Emissions of Particulate from Stationary Sources", 1982. Alternative test methods may be used provided that the alternative methods are approved by the Director or Regional Waste Manager prior to performing the actual source testing.

Copies of the above-mentioned manual are available from the Waste Management Branch, 810 Blanshard Street, Victoria, British Columbia, V8V 1X5, at a cost of \$5.00. The manual is also available for inspection at all Waste Management Offices.

2. PRODUCTION FIGURES AND OPERATING PERIOD

Record on the day of sampling of the stack emission, the following information:

- (1) The quantity of asphalt produced in terms of tonnes.
- (2) The total operating period of the asphalt plant.

3. REPORTING

The tabulated results of analysis and rate of discharge measurements are to be submitted to the Regional Waste Manager annually. The first report should be submitted by December 31, 1990.

Date Issued December 23, 1988

Date Amended MAR 30 1990

Regional Waste Manager

File: PA-7965
Date: Feb. 20, 1990
From: Zaheer Manki

MINOR TECHNICAL REPORT

Name/ address of Applicant Imperial Paving Ltd
4781 Byrne Road
Burnaby B.C. V5J 3H6

Date of Application: June 29, 1989

Operation/Location Asphalt Plant/ gravel mining operation- Mission B.C.

Permit Fee Info: SIC # 3699
Production 600 tonnes/day

1. APPLICATION

Imperial Paving Ltd has requested this permit amendment to reflect a change in ownership and address.

2. ADMIN. ASPECTS

The application is for a change in ownership/address and does not entail any change in the quality or quantity of discharge. It is therefore considered minor in nature. The application was neither published nor circulated to other agencies.

3. HISTORY

The subject permit was issued to B.K.Paving Ltd on December 23, 1988 for the following discharges:
Appendix 01-990 m³/min of contaminants into the air, 10 h/d, 6 days/week from an asphalt plant.
Appendix 02- 15 m³/min from a propane fired asphalt heater.
Appendix 03- 10 m³/min from a diesel oil fired power generator.
Appendix 04- 150 m³/day effluent from a wet scrubber to the land.
Annual source testing is also required.

Soon after the issuance of the permit, the company ran into financial difficulties and was declared bankrupt. Imperial Paving Ltd purchased this company in March 1989 and in June 1989 applied for the subject permit amendment.
B.K. Paving Ltd never operated the plant and no monitoring program was undertaken
There have been no known environmental problems or public complaints against this operation.

4. TECHNICAL ASPECTS

The stationary asphalt plant, Barber-Green Model K-50 continuous mix of approximately 600 tonnes/ day may or may not be operated by the applicant. Since Imperial Paving Ltd have a few other asphalt plants in the Lower Mainland, they may choose to use this site for gravel mining only.
Our field inspection of the plant site indicates that the pollution control equipment is still in reasonably good condition.
The plant is set up in an isolated area on Dewdney Trunk Road, approximately 9 km north of HWY #7 in Mission. The plant location is also well removed from the road and not easily visible to the travelling public.

B.K.Paving Ltd has sent us a letter indicating that they have no objection to the transfer of their permit to Imperial Paving Ltd.

5. RECOMMENDATIONS

It is recommended that the subject amendment be approved by reflecting a change in company name and address. All other terms and conditions of the subject permit remain unchanged. Since there are changes to 7 out of 9 appendices, it is recommended that a complete new package be issued.



Zaheer Manki

Agreed
Alcharr
90/03/01

Noted
90-3-13
[Signature]

FILE: AA-7965

DATE: October 31, 1988

FROM: Z. Manki

TECHNICAL ASSESSMENT FOR PERMIT APPLICATION

Application on behalf of B. K. Paving Ltd., dated
October 20, 1987, located on Dewdney Trunk Road, Mission

1. SOURCE OF DISCHARGE

The source of discharge is a stationary asphalt plant, Barber-Greene Model K50 continuous mix of approximately 600 tons per day capacity. The plant consists of a diesel fired power generator, propane fired rotary dryer, pugmill and a propane fired asphalt heater.

Aggregate is fed by conveyor to the dryer. Hot aggregate is weighed and mixed with hot asphalt oil. Mixed asphalt is then loaded on to the standby trucks for the market.

Sand and gravel is mined from the neighbouring gravel pit.

2. PROPOSED METHOD OF TREATMENT OF DISCHARGE

- (1) The dust laden gases from the aggregate dryer are first treated by three on-line cyclones for the removal of heavier particles. Cyclone treated emissions are then treated by a wet scrubber prior to discharge through a stack.

The scrubber has a 5-foot diameter discharge tube in the centre and four vertical spray pipes with a total of 48 spray nozzles attached. There are also three nozzles at the air intake. A water to air ratio of 1.5 gallons per 1,000 SCF of air is maintained for the scrubber operation. A generally accepted water usage ranges between 2 - 7 gallons/1,000 SCF air in the asphalt paving industry (Columbia Bitulithic).

- (2) Effluent discharge from the wet scrubber is directed to an infiltration pond with no recycle facility or overflow to the environment. The maximum quantity of effluent discharged to the pond is 140 m³/day.
- (3) Emissions from diesel fired power generator (10 m³/min) and the propane fired asphalt heater (15 m³/min) are small and are not treated.

3. RECEIVING ENVIRONMENT

The plant is located in an isolated area on Dewdney Trunk Road, approximately 9 km north of Highway #7 in Mission. The plant is located 150 m east of Dewdney Trunk in the middle of a gravel pit approximately 6 m above the road level. The plant is well surrounded by the trees and is not visible from the road.

The area is sparsely populated and the nearest residence is about 1 km north from here.

Prevailing winds are mainly southwesterly during summer and northeasterly during winter. There are no air permits in the general vicinity of the plan.

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4. PROPOSED MONITORING

- (1) The permittee should be required to initially monitor the aggregate dryer discharge for particulate matter within six months from the issuance of this permit.

Subsequent monitoring should be on regular annual basis with annual data submission.

- (2) No treatment is considered necessary for the scrubber effluent going into an infiltration pond. No overflow from the pond should be allowed. Flow measurement is also not considered necessary.
- (3) Emissions from the propane fired asphalt heater (15 m³/min) and the diesel generator (10 m³/min) are insignificant. No ~~monitoring~~ should be required.

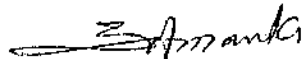
5. ASSESSMENT

- (1) The contaminant levels applied for in the Application (Level A--particulate matter for dryer discharge) can be achieved with the degree of treatment provided--three in-line cyclones and a wet scrubber under proper operating conditions. Although the water to air ratio for this wet scrubber (1.5 gallons/1,000 SCF air) is slightly below the industry's minimum standard of 2 gallons/1,000 SCF air, it was noted that during our field inspection of July 14, 1988, the quality of air emissions was acceptable. The equipment can operate even at a lower water to air ratio.
- (2) The plant is located in a gravel pit away from any population centre. Effluent from the infiltration pond was well contained at the time of inspection and had a freeboard of 0.5 m.
- (3) Emissions from the asphalt heater and the diesel generator were also acceptable during the July 14, 1988 inspection.

The plant has operated at this location for the last one and a half years.


There have been no public complaints and the quality of discharge has been acceptable. At this location and under the local climatic conditions, the discharge should have a minimal impact on the receiving environment.


Proposal appears technically acceptable.



Z. Manki
Waste Management Officer

/fo
30.11.88

Agreed

88/11/06

Noted
88-12-9


FILE: AA-7965

DATE: November 7, 1988

FROM: Z. A. Manki

RESUME FOR PERMIT APPLICATION ASSESSMENT

Application on behalf of B. K. PAVING LTD.
dated October 20, 1987, located in Mission

1. APPLICATION

The Company has made this application for a Permit for the discharge of:

- (1) 990 m³/min contaminants, 10 hours/day, 6 days/week from a Barber-Greene mobile asphalt plant to the air. The emissions are treated by three in-line cyclones and a wet scrubber.
- (2) 780 m³/day effluent from the wet scrubber to an infiltration pond. No treatment is provided to the influent. There will be no overflow of effluent from the pond.

The plant has a production capacity of 600 ^{tones} tons/day with a S/C #3699.

2. APPLICATION REVISIONS

Air emissions from a diesel generator (10 m³/min) and an asphalt heater (15 m³/min) had not been included in the application. These sources should be included in the Permit.

Since the total discharge rate of 25 m³/min is less than 10% of the rate applied for, re-publishing is not considered necessary.

3. HISTORY

The asphalt plant was previously operated by Dawson Construction Ltd. in Kamloops at the Indian Reservation #1 under a Waste Management Permit No. PA-3741.

B. K. Paving had initially applied for an amendment to this permit (PA-3741) to reflect a change in ownership when they had purchased this plant from Dawson Construction Ltd. in April 1987. Prior to the processing of the amendment, the new owner Ken Dick, sold his interest to the present applicant--Mr. K. Lalli of B. K. Paving. Mr. Lalli then applied for an amendment in May 1987. In the meantime, our Kamloops Regional Office had cancelled the subject permit on September 26, 1987 on a written request from Dawson Construction Ltd.

On October 20, 1987, B. K. Paving Ltd. made the subject application (AA-7965) for a Waste Management Permit.

This asphalt plant under the Application has operated at this location for approximately 1.5 years. There have been no public concerns or complaints.

According to the site investigation report, plant emissions at the time of plant inspection were of an acceptable quality.

....2

4. ADMINISTRATIVE ASPECTS

A copy of the Application was published in the B. C. Gazette on November 12, 1987, advertised in the Fraser Valley Record on November 10, 1987 and circulated to other agencies. A copy of the Application was also seen posted at site.

5. POLICY OBJECTIVES OR CRITERIA

Pollution Control Objectives for Food-Processing, Agriculturally Orientated and Other Miscellaneous Industries of B. C. apply. The objectives state that:

The major source of particulate emission in an asphalt plant is the rotary drier. Combustion gases and fine dust from the rotary drier are normally exhausted through a cyclone precleaner. A high-efficiency wet scrubber or fabric filter following the precleaner is required to achieve an acceptable degree of particulate emission control.

The Company has provided three pre-cleaner cyclones followed by a wet scrubber.

The dryer emissions will be required to meet Level A criteria for particulate matter of 230 mg/m³.

The Application complies with the objectives.

6. AGENCY COMMENTS

Environment Canada - no concerns provided there is no direct discharge of effluent.

Ministry of Health - no comments.

Water Management - no response.

Fish & Wildlife Management - no response.

Dewdney Alouette Regional District - no response.

7. CONCERNED PERSONS

None.

8. SITE INSPECTION REPORT

The portable Barber-Greene Model K-50 continuous mix asphalt plant is currently producing only 200 tons/day of asphalt but has a production capacity of 600 tons/day.

The plant was previously operated by Dawson Construction Ltd. under PA-3741 which has now been cancelled. The plant has been in operation at this location on Dewdney Trunk road for one and a half years.

At the time of site inspection, air emissions were of an acceptable quality. The infiltration pond had a free board of 0.5 m.

The discharge stack had developed some holes due to corrosion and should be repaired.

Housekeeping was poor with some diesel spills visible around the diesel generator. This should also be cleaned.

Issuance of a permit is recommended with the following:

- (1) Wet scrubber emissions meet Level A criteria for particulates.
- (2) Permittee sampling of scrubber emissions.
- (3) Fugitive dust clause.
- (4) No overflow from the infiltration pond.

9. SECURITY REQUIREMENTS

None.

10. DISCUSSION OF TECHNICAL ASPECTS

- (1) No response has been received from our Environmental Section.

- (2) The total effluent flow rate of 780 m³/d appeared high for the size of the plant. A revised flow rate of 140 m³/d was provided by the applicant. This flow rate is consistent with other identical operations (PA-7014 - 175 m³/d).

This flow rate should be rounded off to 150 m³/d in the permit.

- (3) Emissions from the diesel generator (10 m³/min) and the asphalt heater (15 m³/min) are of no serious concern and should be included in the permit under two separate appendices.

- (4) The applicant was asked to repair the faulty equipment, improve the infiltration pond, remove the diesel contaminated soil and generally improve the house-keeping by November 18, 1988.

On November 17, 1988, Mr. N. Henry confirmed in a telephone conversation that all the above items have been taken care of.

- (5) Since the plant appears to be stationary at this time, one stack test should be conducted as soon as appropriate conditions exist. Subsequent monitoring should be on a yearly basis.
- (6) Since no water will be recycled from the infiltration pond, measurement of flow rate is not considered necessary at this location.

11. RECOMMENDATIONS

It is recommended that a permit be issued to the applicant for the discharge of contaminants from an asphalt plant located on Dewdney Trunk Road in Mission. The following additional recommendations are also made.

- (1) Include the diesel generator and asphalt heater emissions in the permit.
- (2) Permittee monitoring should be required.
- (3) Standard clauses for Fugitive Dust Control, Bypasses, Process Modifications and Maintenance of Works should be included in the permit to provide better administrative controls.

/fo
30.11.88

Agreed
plchar
88/12/05

Z. Manki
Waste Management Officer

Noted
88-12-9



Province of
British Columbia

Ministry of
Environment
and Parks

Waste Management
Lower Mainland Region
15326 — 103A Avenue
Surrey
British Columbia
V3R 7A2
Telephone: (604) 584-8822
Facsimile: 660-8926

YOUR FILE
OUR FILE PA-7965

DEC 23 1988

Dewdney Alouette Regional District
32386 Fletcher Avenue
Mission, British Columbia
V2V 5T1

Gentlemen:

Waste Management Permit No. PA-7965
B.K. PAVING LTD.
Located near Mission, B.C.

- (x) Permit No. PA-7965 dated DEC 23 1988
has been issued to the subject applicant.
- () Amendment to Permit No. dated
has been issued to the subject applicant.

Yours truly,

D. Randhawa,
Processing



MEMORANDUM

To: (x) Water Management
Attention: Regional Engineer

Date: DEC 23 1988

() Ministry of Agriculture
and Fisheries

File: PA-7965

(x) Fish and Wildlife
Habitat Protection Section

From: Waste Management
15326-103A Ave.
Surrey, B.C.
V3R 7A2

() Air Studies Section

(x) Medical Health Officer
Central Fraser Valley Health Unit

(x) Environmental Monitoring Section

() Shellfish Section
Marine Resources Branch

Waste Management Permit No. PA-7965
B.K. PAVING LTD.
Located near Mission, B.C.

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D. Randhawa,
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Province of
British Columbia

Ministry of
Environment
and Parks

Waste Management
Lower Mainland Region
15326 — 103A Avenue
Surrey
British Columbia
V3R 7A2
Telephone: (604) 584-8822
Facsimile: 660-8926

DEC 23 1988

YOUR FILE
OUR FILE **PA-7965**

Mr. B.A. Heskin, P.Eng.,
Regional Director General
Pacific and Yukon Region
Conservation and Protection
Environmental Protection
Environment Canada
3rd floor, Kapilano 100, Park Royal
West Vancouver, British Columbia
V7T 1A2

Dear Mr. Heskin:

Waste Management Permit No. PA-7965
B.K. PAVING LTD.
located near Mission, B.C.

Enclosed is a copy of Permit No. PA-7965 dated DEC 23 1988
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D. Randhawa,
Processing

Enc.



Province of
British Columbia

Ministry of
Environment
~~and Parks~~

Waste Management
Lower Mainland Region
15326 — 103A Avenue
Surrey
British Columbia
V3R 7A2
Telephone: (604) 584-8822
Facsimile: 660-8926

YOUR FILE

OUR FILE PA-7965

REGISTERED MAIL

DEC 23 1988

SUPERSEDED

B.K. PAVING LTD.
700 - 686 West Broadway
Vancouver, British Columbia
V5Z 1G1

Gentlemen:

LETTER OF TRANSMITTAL

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Yours very truly,

H.Y. Wong,
Regional Waste Manager

Enc.



MINISTRY OF ENVIRONMENT

SUPERSEDED

PERMIT

Under the Provisions of the Waste Management Act

B.K. PAVING LTD.

700 - 686 West Broadway

Vancouver, British Columbia

V5Z 1G1

is hereby authorized to discharge contaminants to the air
and effluent to the land
from an asphalt plant
located approximately 9 km north of Mission on
Dewdney Trunk Road.

This permit has been issued under the terms and
conditions prescribed in the attached appendices:

01, 02, 03, 04, A-1, B-1 and C-1.



Regional Waste Manager

Permit No. PA-7965

Date Issued DEC 23 1988

Date Amended _____



MINISTRY OF ENVIRONMENT
Waste Management Branch

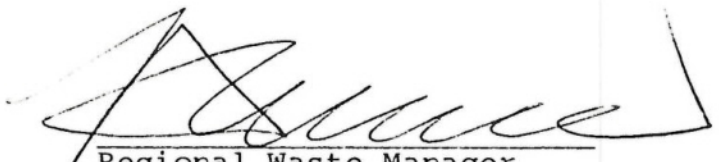
APPENDIX 01
to Permit No. PA-7965

SUPERSEDED

- (a) The discharge of contaminants into the air to which this appendix is applicable is from an asphalt plant wet scrubber stack, identified as 01 shown on the attached Appendix A-1.
- (b) The rate of discharge (dry basis) authorized is:
- Maximum: 990 m³/min;
- Duration: 10 hours/day;
- Frequency: 6 days/week.
- (c) The characteristics of the contaminants shall be equivalent to or better than:
- Contaminant: Particulate matter;
- Maximum concentration: 230 mg/m³;
- Duration: 10 hours/day;
- Frequency: 6 days/week.
- NOTE: All air and gaseous volumes specified in (b) and (c) above are at standard conditions. These conditions are: Standard temperature = 293.15°K;
Standard pressure = 101.325 KPa;
Water Vapour Zero unless otherwise stated.
- (d) The works authorized are a wet scrubber, stack and related appurtenances approximately located as shown on the attached Appendix A-1.
- (e) The location of the facilities from which the discharge originates and to which this appendix is appurtenant is L. 2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (f) The works authorized must be complete and in operation on and from the date of this appendix.

Date Issued DEC 23 1988

Date Amended _____


Regional Waste Manager



MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX 02
to Permit No. PA-7965

SUPERSEDED

(a) The discharge of contaminants into the air to which this appendix is applicable is from a propane fired heater for the asphalt tank, identified as 02 shown on the attached Appendix A-1.

(b) The rate of discharge (dry basis) authorized is:

Maximum: 15 m³/min;

Duration: 24 hours/day;

Frequency: Continuous.

NOTE: All air and gaseous volumes specified in (b) above are at standard conditions. These conditions are:

Standard temperature = 293.15°K;

Standard pressure = 101.325 KPa;

Water Vapour Zero unless otherwise stated.

(c) The characteristics of the contaminants shall be equivalent to or better than:

Contaminant: Typical combustion products of propane;

Duration: 24 hours/day;

Frequency: Continuous.


(d) The works authorized are a propane torch heater, stack and related appurtenances approximately located as shown on the attached Appendix A-1.

(e) The location of the facilities from which the discharge originates and to which this appendix is appurtenant is L. 2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.

(f) The works authorized must be complete and in operation on and from the date of this appendix.

Date Issued DEC 23 1988

Date Amended


Regional Waste Manager



MINISTRY OF ENVIRONMENT
Waste Management Branch

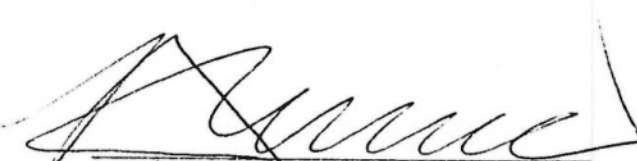
SUPERSEDED

APPENDIX 03
to Permit No. PA-7965

- (a) The discharge of contaminants into the air to which this appendix is applicable is from a diesel oil power generator, identified as 03 shown on the attached Appendix A-1.
- (b) The rate of discharge (dry basis) authorized is:
- Maximum: 10 m³/min;
- Duration: 10 hours/day;
- Frequency: 6 days/week.
- NOTE: All air and gaseous volumes specified in (b) above are at standard conditions. These conditions are:
Standard temperature = 293.15°K;
Standard pressure = 101.325 KPa;
Water Vapour Zero unless otherwise stated.
- (c) The characteristics of the contaminants shall be equivalent to or better than:
- Contaminant: Typical combustion products of diesel oil;
- Duration: 10 hours/day;
- Frequency: 6 days/week.
- (d) The works authorized are a stack and related appurtenances approximately located as shown on the attached Appendix A-1.
- (e) The location of the facilities from which the discharge originates and to which this appendix is appurtenant is L. 2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (f) The works authorized must be complete and in operation on and from the date of this appendix.

Date Issued DEC 23 1988

Date Amended _____


Regional Waste Manager



MINISTRY OF ENVIRONMENT
Waste Management Branch

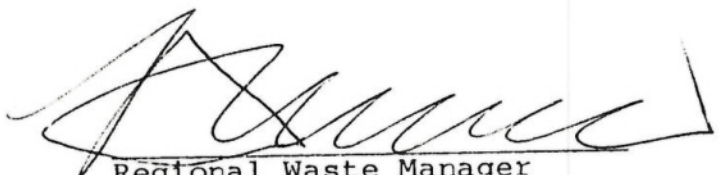
APPENDIX04.....
to Permit No. PA-7965

SUPERSEDED

- (a) The discharge of effluent to which this appendix is applicable is from the wet scrubber to the infiltration pond, identified as 04 shown on the attached Appendix A-1.
- (b) The maximum rate at which effluent may be discharged is 150 cubic metres per day.
- (c) The characteristics of the effluent shall be equivalent to those of typical effluent originating from an asphalt plant wet scrubber.
- (d) The works authorized are an infiltration pond and related appurtenances approximately located as shown on the attached Appendix A-1.
- (e) The location of the facilities from which the effluent originates and to which this appendix is appurtenant is L. 2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (f) The location of the point of discharge and to which this appendix is appurtenant is L. 2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.
- (g) The works authorized must be complete and in operation on and from the date of this appendix.

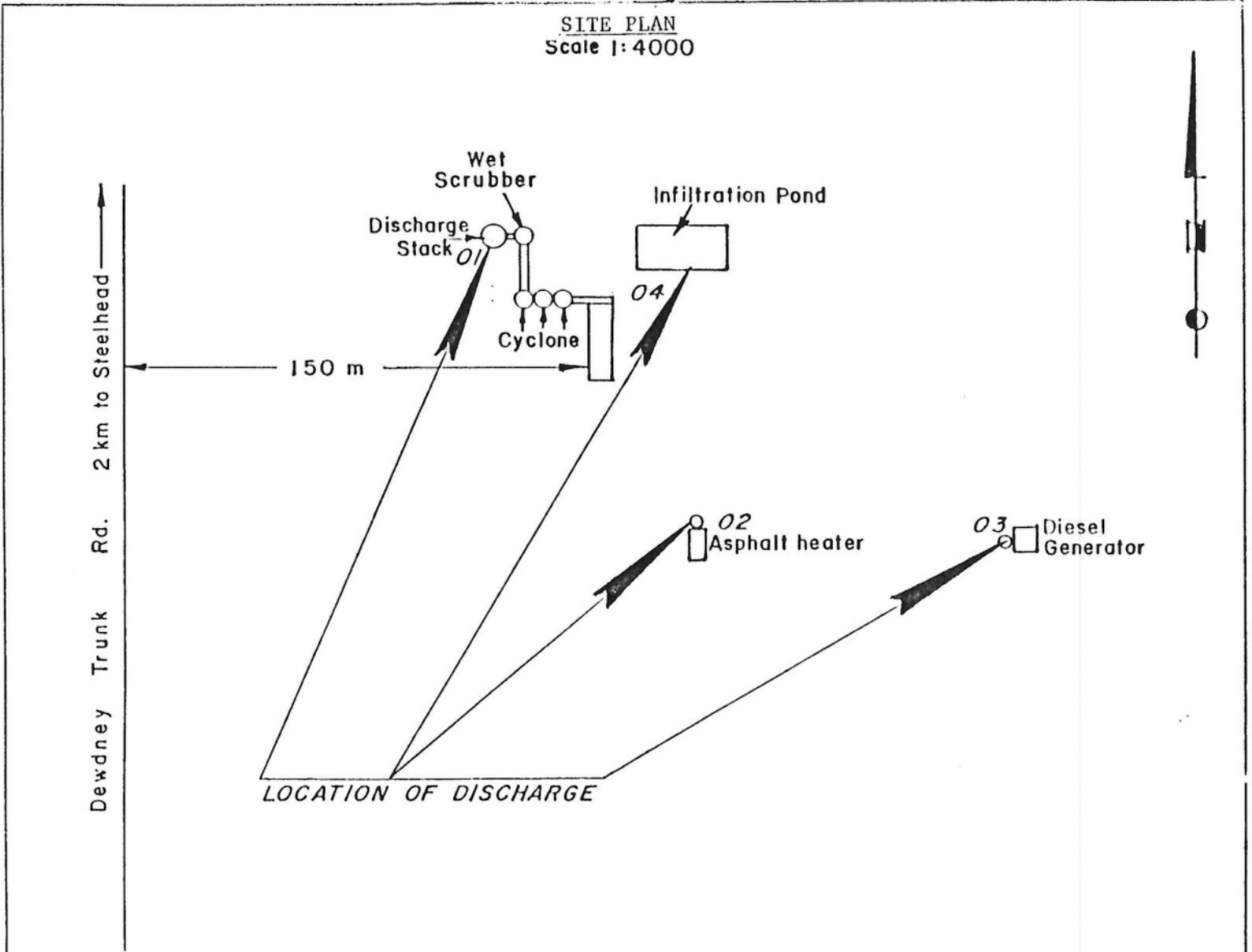
Date Issued DEC 23 1988

Date Amended _____


Regional Waste Manager

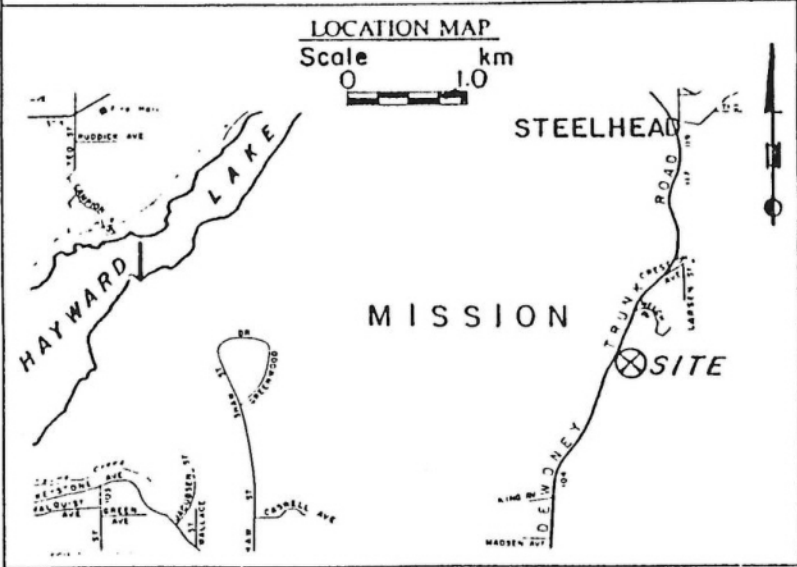


SUPERSEDED



LEGAL DESCRIPTION OF SITE

L.2 of Section 16 and Section 17, Township 18, NWD. Plan 41306.



B. K. PAVING LTD.	
(Name of applicant(s))	
(Date)	(Signature of applicant(s) or agent)
(FOR OFFICE USE ONLY)	
DEC 23 1988	
Date Issued	
Date Amended	
Regional Waste Manager	
Appendix A-1 to Permit No. PA-7965	
Approval No.	



MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX B-1
to Permit No. PA-7965

SUPERSEDED

A. FUGITIVE DUST CONTROL

The Permittee shall suppress fugitive dust created within the operation area and will maintain, at points designated by the Regional Waste Manager, an ambient air quality in terms of total dustfall equal to or better than 2.90 milligrams per square decimetre per day.

Should this ambient level be exceeded at any of the designated points, the Permittee may be required to provide and implement the additional controls that are considered necessary.

B. BYPASSES

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

C. PROCESS MODIFICATIONS

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

D. MAINTENANCE OF WORKS

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

E. INFILTRATION POND

- (1) There shall be no overflow from the infiltration pond to the receiving environment.
- (2) Surface drainage shall be diverted away from the infiltration pond.
- (3) The residue, removed from the infiltration pond shall be disposed of in a manner approved by the Regional Waste Manager.

Date Issued DEC 23 1988

Date Amended _____


Regional Waste Manager



MINISTRY OF ENVIRONMENT
Waste Management Branch

APPENDIX C-1
to Permit No. PA-7965

SUPERSEDED

1. SOURCE TESTING

The Permittee shall sample emissions from the wet scrubber stack authorized by Appendix 01 by June 30, 1989 and once a year thereafter.

The duration of sampling is to be representative of the equipment's operation. Determine the concentration of particulates in mg/m^3 . Measure and record on the day of sampling, the average daily rate of emission discharge for the wet scrubber stack in m^3/min , based on the normal operating period.

Source testing procedures for the determination of particulate matter concentrations and the rate of discharge (flow rate) are to be carried out in accordance with those procedures described in the "Source Testing Code for the Measurement of Emissions of Particulate from Stationary Sources", 1982. Alternative test methods may be used provided that the alternative methods are approved by the Director or Regional Waste Manager prior to performing the actual source testing.

Copies of the above mentioned manual are available from the Waste Management Branch, 810 Blanshard Street, Victoria, British Columbia, V8V 1X5, at a cost of \$5.00. The manual is also available for inspection at all Waste Management Offices.

2. PRODUCTION FIGURES AND OPERATING PERIOD

Record on the day of sampling of the stack emission, the following information:

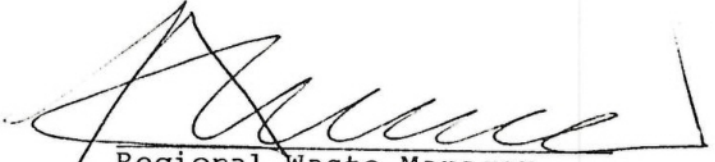
- (1) The quantity of asphalt produced in terms of tonnes.
- (2) The total operating period of the asphalt plant.

3. REPORTING

The tabulated results of analysis and rate of discharge measurements are to be submitted to the Regional Waste Manager annually. The first report should be submitted by July 31, 1989.

Date Issued DEC 23 1988

Date Amended _____


Regional Waste Manager



MEMORANDUM

To: H.Y.Wong
Regional Manager
Waste Management

Date: March 2, 1990.
File: PA-7965
Name: Imperial Paving
Ltd.

Subject: Resume Review Committee

The Resume Review Committee met on March 2, 1990.

The following were absent:

- The Permit Amendment be issued.

The Permit be refused.

No consensus was reached.

The Permit be issued and the following changes be made:



EML cc. P.Khare
M.Gow

OK 90-3-13

E.M. Lawson
E.M.Lawson, P.Eng. M.B.A.
Head-Municipal Section

Amendment
JB - JB
CF - CF
NL -
file -

WASTE MANAGEMENT PERMIT FEE
INFORMATION FORM

PERMIT NUMBER: PA-7965EXEMPT FROM FEES: N (Y/N)

STATUS:

<input type="checkbox"/> new permit	<input checked="" type="checkbox"/> active	<input type="checkbox"/> permit suspended
<input checked="" type="checkbox"/> amended permit	<input type="checkbox"/> waived until _____	<input type="checkbox"/> permit abandoned
<input type="checkbox"/> update to fee info	<input type="checkbox"/> multiple of _____	<input type="checkbox"/> permit cancelled
		and credit fees back to _____

PERMITTEE NAME: Imperial Paving Ltd.BILLING ADDRESS: 4781 Byrne RoadBurnaby, B. C.Postal Code: V5J 3H6 Telephone: () 438-7161INDUSTRY CODE: 3699
(SIC or NC)CAPACITY: 600 (Actual)
(Potential)UNITS: Tonnes/day

COMMENTS: _____

OPERATION DESCRIPTION: Asphalt Plant/Gravel MiningGENERAL LOCATION: Dewdney Trunk Road, MissionDATE ISSUED: 88/12/23 (YYMMDD)ENV. MONITORING: Y (Y/N)AMENDMENT DATE: MAR 30 1990 (YYMMDD)SPEC. WASTE ALERT: N (Y/N)

ACTIVATION DATE: _____ (YYMMDD)

(if waived)

OFFICE CODE: 200TECHNICIAN: GRL

COMMENTS: _____

PREPARED BY: *Z. H. Marki*AUTHORIZED BY: *[Signature]*

DATE: _____

ENTERED
 96.04.04
cf

COPY

DEC 05 1989

Imperial Paving Limited
4781 Byrne Road
Burnaby, British Columbia
V5J 3H6

Dear Sir:

In consideration of the receipt of all monies owing with regard to Waste Management Permit PA-7965, notice of intention to suspend Permit PA-7965 dated June 7, 1989, is hereby rescinded.

Sincerely,

John Reynolds
Minister

cc: Mr. R.H. Ferguson
Director of Waste Management

Mr. H.Y. Wong
Regional Waste Manager, Surrey

CHEESMAN:jlh/tt (WASTES)
Ref: PA-7965

bcc: Minister's Office
Deputy Minister's Office
Executive Director of
Air & Waste Management Division



PA 7965

Director of Waste Management

COPY

DEC 05 1989

Imperial Paving Limited
4781 Byrne Road
Burnaby, British Columbia
V5J 3H6

Dear Sir:

In consideration of the receipt of all monies owing with regard to Waste Management Permit PA-7965, notice of intention to suspend Permit PA-7965 dated June 7, 1989, is hereby rescinded.

Sincerely,
Original Signed by
MINISTER

John Reynolds
Minister

cc: Mr. R.H. Ferguson ✓
Director of Waste Management

Mr. H.Y. Wong
Regional Waste Manager, Surrey

DISTRIBUTION	DATE	INITIALS
GEC JB		de JB.
frb		