

ITEM 29

MANAGER'S REPORT NO. 92

COUNCIL MEETING Dec. 10/73

29. Re: Domtar Roofing Products Plant, 8255 Wiggins Street  
Complaint regarding Noxious Odors.  
(Item 16, Report 66, September 4, 1973)

Council, at its meeting of September 4, 1973, received the above-noted report which advised that the matter of complaints received regarding air emissions emanating from the subject plant was referred to the Air Quality Division, Greater Vancouver Regional District, "approximately two months ago" and that a further staff report would be provided to Council following receipt of the report from the Air Quality Division.

The Medical Health Officer advises that, in that control of industrial air emission within the Municipality of Burnaby is the responsibility of the Regional District, Domtar Construction Materials Ltd. has submitted an Application for a Permit Under the Pollution Control Act 1967 (Emissions) to the Director, Pollution Control, Greater Vancouver Regional District. A copy of the Domtar Application, dated August 9, 1973, is attached.

For information purposes, attached also are copies of correspondence between the Municipality and the Regional authorities with respect to emission from the Domtar plant. Of interest to Council will be the letter dated December 5, 1973 from Mr. J.M. Fitsimmons, of the Regional District, to the Medical Health Officer which references remedial and monitoring measures planned for the Domtar plant. Reference is also made in the letter to the fact that a time-lapse of seven months is anticipated prior to the installation of control equipment.

RECOMMENDATION:

THAT the Medical Health Officer be instructed to meet with the Regional District authorities to determine whether or not the control equipment proposed for the Domtar Asphalt plant can become operational earlier than the presently scheduled date.

ITEM 29  
MANAGER'S REPORT NO. 92  
COUNCIL MEETING Dec. 10/73

PA

Greater Vancouver Regional District  
221 WEST TENTH AVENUE | VANCOUVER 9, BRITISH COLUMBIA | TELEPHONE 737-1155

Refer to our file number:

FILE NO. 10.05

Date August 14th, 1973

The Corporation of the District of Burnaby,  
4947 Canada Way,  
Burnaby 2, B. C.

Attention: Mr. J. H. Shaw, Municipal Clerk.

Dear Sirs:

Enclosed for your information is an application to this District under the Pollution Control Act for the discharge of an emission or emissions from the following properties 8255 Wiggins Street, Burnaby, B.C. Bounded by Wiggins St. on the North, the North Arm of the Fraser River on the South and Belkin Paperboard Co. on the West, and TPL Inc. on the East.

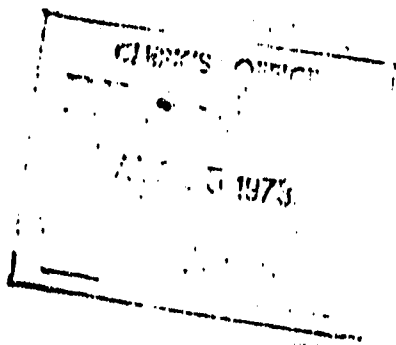
in the Greater Vancouver area.

Yours truly,

*R. J. Mannon*

R. J. Mannon, Registrar  
Pollution Control.  
for Director, Pollution Control

P-3





Greater Vancouver Regional District

2294 WEST TENTH AVENUE VANCOUVER 9, BRITISH COLUMBIA TELEPHONE 731-1155

Please refer to our file number:

ITEM 29

MANAGER'S REPORT NO. 92

COUNCIL MEETING Dec. 10/73

### APPLICATION FOR A PERMIT UNDER THE POLLUTION CONTROL ACT, 1967 (EMISSIONS)

This application is to be filed with the Director, Pollution Control, Greater Vancouver Regional District. Any person who qualifies as an objector under section 13 (3) of the Pollution Control Act, 1967 may, within 30 days of the date of application, or within 30 days of the date of publication in The British Columbia Gazette or in a newspaper, or, where service is required, within 30 days of the serving of a copy of the application, file with the Director an objection in writing to the granting of a permit, stating the manner in which he is affected. Those who do not so qualify may file with the Pollution Control Board an objection in writing under section 13 (6), in the same manner and time period as described above.

I, DOMTAR CONSTRUCTION MATERIALS LTD.

(Full name - if a company, British Columbia registered name)

of FIBRE PRODUCTS DIVISION, P.O. BOX 486, NEW WESTMINSTER, B.C.

(Address - if a company, British Columbia registered address)

hereby apply to the Director for a permit to discharge or emit contaminant(s) into the air from a thermal oxidizer controlling fumes from an asphalt blowing operation of a roofing shingle plant

(Type of plant or source)

located at Burnaby, B. C.

(General location)

and give notice of my application to all persons affected.

2. The land upon which the works are located 8255 Wiggins St., Burnaby, B.C.

Bounded by Wiggins St. on the North, the North Arm of the Fraser River on the South and Belkin Paperboard Co. on the West, and TPL Inc.

(Give legal description)

on the East.

3. The discharge or emission shall be located at the Asphalt Plant - 8255 Wiggins St., Burnaby, B. C.

(Define relative to some surveyed or commonly known point)

4. The rate of discharge is (dry basis):

11.2 hrs. @ 2500 scfm

(a) Maximum 5000 SCFM; Duration 5.6 hrs. @ 5000; Frequency Once per day

(SCFM)

(Min. per hour or hours per day)

(Times per hour or times per day)

(b) Average daily (based on normal daily operating period) 2500 SCFM

(SCFM)

The operating period during which contaminants will be discharged is

6 days, between hours of 4 p.m. and 7 a.m.

(Continuous, days per week, hours per day)

5. The characteristics of the contaminant(s) to be discharged are as follows: (Insert values after completion of Table (c), column (II) on reverse side.)

Contaminant concentration: Oxidizer still stack

2500 scfm

Particulate

1.831 g./SCF

Hydrocarbon (as n-hexane)

930 ppm

*for 13/8/73  
To meet level "A"  
objective for the  
Chemical & Petroleum  
Industries*

6. The type of treatment to be applied to the contaminant(s) is as follows:

To reduce entrainment of contaminants in still emissions,

installation of correctly sized plenums, fume ducts, and a

knock-out box is being completed. Fumes from the two stills will

then be subjected to thermal oxidation at 1600°F.

7. I, R. J. HANNON REGISTRAR

(Name and title of official of regional district)

hereby certify that a copy of this application has been received by the Regional District of

GREATER VANCOUVER REGIONAL DISTRICT

*R. J. Hannon / per P.O.*  
(Signature of official)

8. This application, dated on the 9th day of August, 1973 was posted on the ground in accordance with the Pollution Control Regulations.

*[Signature]*  
(Signature of applicant or agent)



APPENDIX A  
DOMTAR CONSTRUCTION MATERIALS  
FIBRE PRODUCTS DIVISION  
BURNABY, B.C.

POLLUTION ABATEMENT PROGRAMME

The source of odours from the plant are the emissions from the blowing stills (asphalt plant) which are used to oxidize asphalt flux. Present facilities consist of undersized plenums and ductwork which result in a high entrainment of odourous compounds in the exhaust to atmosphere. In addition, pumps and piping used for charging and heating the stills are inefficient contributing to longer hours of operation.

As stage I of the programme, we have started to install larger and more efficient equipment on the blowing stills. This consists of fabricating and installing plenums, fume ducts, a knock-out box, and duct supports as shown in the attached drawing No. 12356. Charging pumps and undersized piping will also be replaced. Preliminary work has already begun on stage I.

Stage II of the programme will be to install a UIP thermal oxidizer to incinerate the odourous fumes from the blowing stills. The thermal oxidizer will be a Rommco Model 5000 with a fume oxidizing capacity of 5000 SCFM at 1600°F with a retention time of 0.5 seconds. This unit will be installed in series with the knock-out tank installed in stage I. No heat recovery features will be added to this unit as it is felt that the volume of reclaimable heat does not warrant the additional investment.

Although the burner will be of the dual type, it is planned to use oil as fuel initially. The maximum sulphur content of the fuel oil presently used at the Burnaby plant is 3.0% with an average analysis of 1.73% sulphur. Detailed engineering design of stage II has not yet been completed, therefore drawings are not available. General information on the unit is attached. The arrangement will be as shown in Dwg. No. 12356. A plot plan of the Burnaby plant (dwg. No. D 11-23A) is also attached.

Contaminant concentrations given in the Application for a Permit are based on stack sampling carried out by B.C. Research, January 1972.

Greater Vancouver Regional District

204 WEST TENTH AVENUE VANCOUVER 9, BRITISH COLUMBIA TELEPHONE 731-1155

ITEM 29

MANAGER'S REPORT NO. 92

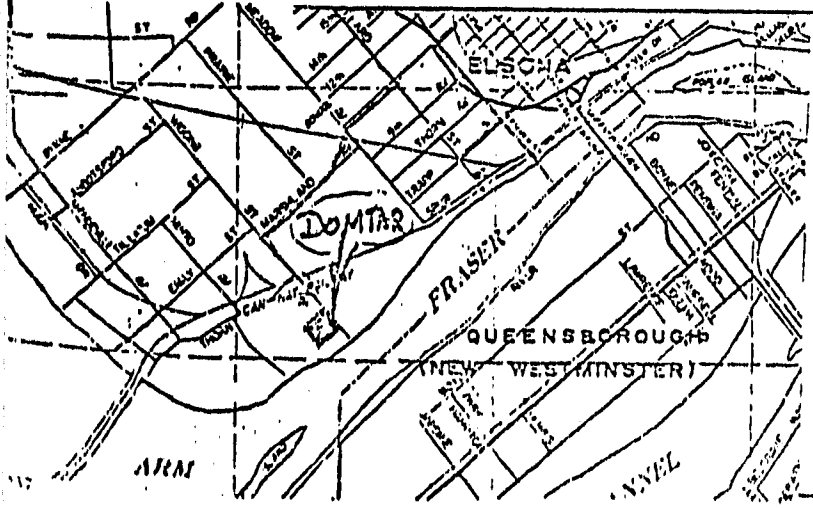
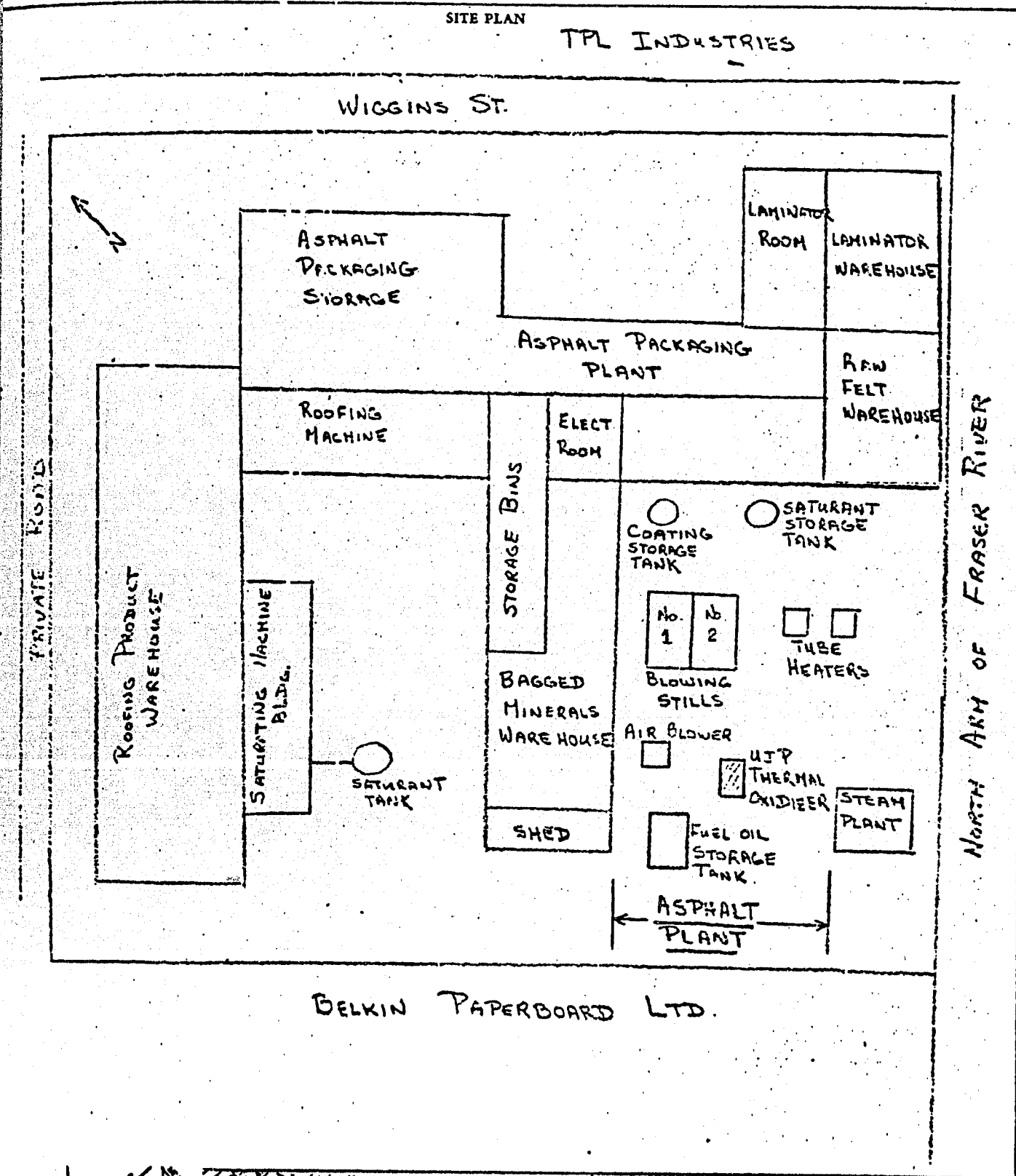
COUNCIL MEETING Dec. 10/73

our file number:

POLLUTION CONTROL ACT

SITE PLAN

TPL INDUSTRIES



P. G. Levasseur

(Name of applicant(s))

(Date)

(Signature of applicant(s) or agent)

(FOR OFFICE USE ONLY)

(Date issued)

(Director, Pollution Control)

Appendix to Permit No.



ITEM 29  
MANAGER'S REPORT NO. 92  
COUNCIL MEETING Dec. 10/73

Municipal Manager

Sept. 7/73.

Chief Public Health  
Inspector

17-10-73

Domtar Construction Materials Ltd.  
Asphalt Plant - 8255 Wiggins Street, Burnaby, B.C.

We are attaching a copy of an "Application for a Permit Under the Pollution Control Act, 1967 (Emissions)" as made to the Director, Pollution Control, Greater Vancouver Regional District by Domtar Construction Materials Ltd.

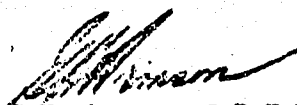
It is our opinion, as we have been in receipt of complaint regarding odour and, furthermore, that this odour could possibly be related to the above-noted operation, that the Director, Pollution Control, Greater Vancouver Regional District, be queried as to whether the controls, as submitted, would remove odour from the emission. If the answer is in the negative then it is possible that this Municipality could become an objector under Section 13 (3) or Section 13 (6) of the Pollution Control Act, 1967.

We hesitate to write the Regional authority as a Department without your instruction to do so.

The Regional District forwards a copy of applications for permits to emit to the Municipal Clerk. We have requested that the Municipal Clerk notify this Department of such applications in order that we may advise you of applications that should be questioned.

If you so instruct, we will write the Regional authorities for information pertaining to the application of Domtar Construction Materials Ltd.

GHA/pm

  
G.H. Armon, C.P.H.I. (C)  
CHIEF PUBLIC HEALTH INSPECTOR

ITEM 29  
MANAGER'S REPORT NO. 92  
COUNCIL MEETING Dec. 10/73

September 12, 1973.

Our File: 17-10-73.

Mr. F.R. Bunnell,  
Director,  
Pollution Control,  
Greater Vancouver Regional District,  
2294 West 10th Avenue,  
Vancouver, B.C.

Dear Sir:

Re: Asphalt Plant,  
8255 Wiggins Street,  
Burnaby, B.C.

It is with interest that we receive, from your offices, a copy of an application to emit or discharge contaminant(s) into the air as submitted by Lomtar Construction Materials Ltd., Fibre Products Division, P.O. Box 486, New Westminster, B.C.

This Municipality is, and has been, subjected to complaints of odour from citizens residing in both our south and east areas. The odour is intermittent, pronounced and suggestive of an asphaltic or tar origin. We are of the opinion that the above-noted asphalt plant is involved in this odour and as such, would request of you, the following information:

- (1) Will the proposed control result in the elimination of odour?
- (2) What period of time if involved from the present until the concerned company reaches Level A, Objectives for the Chemical and Petroleum Industries?
- (3) If the installation of control equipment is fairly lengthy, what temporary measures are being considered for the interval prior to finalization of control equipment installation?

We would take this opportunity to thank you for your consideration in this matter.

Yours truly,

*Original signed by*

GHA/pm

W.F. Sunderland, M.D., D.P.H.  
MEDICAL HEALTH OFFICER

c.c. ( ) Municipal Manager



ITEM 29  
MANAGER'S REPORT NO. 92  
COUNCIL MEETING Dec. 10/73



Greater Vancouver Regional District

2294 WEST TENTH AVENUE VANCOUVER 9, BRITISH COLUMBIA TELEPHONE 731-1155

Please refer to our file number:

September 14th, 1973

Dr. W.F. Sunderland, M.D., D.P.H.,  
Medical Health Officer,  
District of Burnaby,  
Municipal Hall,  
4949 Canada Way,  
Burnaby 2, B.C.

Dear Dr. Sunderland;

Re: Asphalt Plant  
8255 Wiggins Street,  
Burnaby, B.C.

I have for reply your letter of September 12 regarding the application of the subject plant for a Pollution Control Permit. In adjudicating this application I will consider all pertinent information placed before me. It is only after such consideration that I may issue a permit or refuse to issue a permit or to decide what conditions should be attached to a permit. My legal advice is that it would be unwise to commit myself to any course of action until all information concerning a permit is submitted in accordance with the procedures of the Pollution Control Act and its Regulations.

If you have information which you believe is pertinent, you should submit this. You may consider it wise to register an objection under Section 13 of the Pollution Control Act (I consider that the Corporation of Burnaby is a person as defined in sub-section 13(3)(a)). A recognized objector has certain rights if a hearing is held or if an appeal is made. A copy of the Air Pollution Control Act is enclosed.

Yours truly,

F.R. Bunnell  
Director of Air Pollution

FRB/ebc

RECEIVED  
SEP 18 1973  
BURNABY HEALTH  
DEPARTMENT

ITEM 29  
MANAGER'S REPORT NO. 92  
COUNCIL MEETING Dec. 10/73

T CORPORATION OF THE DISTRICT OF BURNABY

INTER-OFFICE COMMUNICATION

TO: Medical Health Officer

DEPARTMENT:

DATE: Sept. 17/73

FROM: Municipal Manager

DEPARTMENT:

OUR FILE #1-7-73

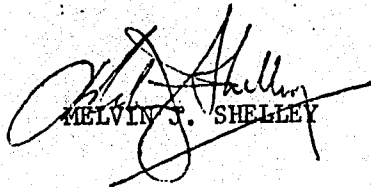
SUBJECT: Asphalt Plant  
8255 Wiggins Street, Burnaby, B. C.

YOUR FILE # 17-10-73

I have received a copy of your letter dated September 12, 1973 to Mr. F.R. Bunnell, Director, Pollution Control, G.V.R.D., regarding the above.

In order to make sure that we do not get caught with the 30-day time limit to object, under Section 13 (3), of the Pollution Control Act, 1967, I have asked the Municipal Clerk to correspond directly with the G.V.R.D. and have the G.V.R.D. send you the copies of the applications for a permit under the Pollution Control Act in the future rather than have them be forwarded to the Clerk's Office, as at present.

Your Office will, therefore, be expected to act on these applications as quickly as you can so as to not jeopardize the Municipality's position about placing an objection if this is necessary. Please advise your staff accordingly.

  
MELVIN J. SHELLEY

MJS:lf

cc: Municipal Clerk

RECEIVED  
SEP 18 1973  
BURNABY HEALTH  
DEPARTMENT

ITEM 29  
MANAGER'S REPORT NO. 92  
COUNCIL MEETING Dec. 10/73

October 1, 1973.

Our File: 17-10-73

Mr. F.R. Bunnell,  
Director of Air Pollution,  
Greater Vancouver Regional District,  
2294 West 10th Avenue,  
Vancouver 9, B.C.

Dear Sir:

Re: Asphalt Plant,  
8255 Wiggins Street,  
Burnaby, B.C.

Further to our letter to you dated September 12, 1973 and your reply dated September 14, 1973, we would advise as follows.

We can understand your difficulty in answering the questions posed in our letter of September 12, 1973, and would, therefore, re-iterate our statement that this Municipality is in receipt of citizen complaints relating to an odour that, while intermittent, is pronounced and suggestive of an asphaltic or tar origin.

We have neither the means nor the authority to ascertain as to whether the above-noted Plant is involved in the emission of this odour, but would believe that the Air Quality Control Division of the Greater Vancouver Regional District does have the authority and surely should have the equipment and expertise to determine if this Plant is associated with this intermittent odour complained of by Burnaby citizens.

We would, therefore, request through you, as the Director of Air Pollution, Greater Vancouver Regional District, that this matter be investigated by the Air Quality Control Division of the Greater Vancouver Regional District.

Yours truly,

GHA/pm

W.F. Sunderland, M.D., D.P.H.  
MEDICAL HEALTH OFFICER.

FORM 124

ITEM 29

MANAGER'S REPORT NO. 92

COUNCIL MEETING Dec. 10/73

GREATER VANCOUVER REGIONAL DISTRICT  
2294 WEST 10TH AVENUE

VANCOUVER 9, B.C.

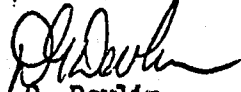
October 5th, 1973

Dr. W.F. Sunderland,  
The Corporation of the  
District of Burnaby,  
4949 Canada Way,  
Burnaby 2, B. C.

Dear Sir:

In reply to your letter to Mr. E. R. Bunnell of October 1, 1973 (see your file 17-10-73), be advised that the asphalt plant at 8255 Wiggins Street has been investigated and it does produce asphalt odours, however due to the complexity of tracing odour emissions we cannot be certain that it is the sole source of the complaints in that municipal area. In respect to the elimination of the odours from this plant it will be of interest to you to know that the plant has applied for an air pollution control permit for the air emissions from the asphalt blowing section of their plant and have advised that they will be purchasing and installing equipment to eliminate odour from this source.

Yours truly,

  
D. G. Devlin,  
Superintendent of  
Quality Control.

DGD:pg

ITEM 29  
MANAGER'S REPORT NO. 92  
COUNCIL MEETING Dec. 10/73

J.M. Fitzsimmons, P. Eng.  
Air Pollution Division  
Greater Vancouver Regional District  
2294 W. 10th Avenue  
Vancouver 9, B.C.

December 5, 1973

Dear Sir:

Re: Asphalt Plant  
8255 Wiggins Street  
Burnaby, B.C.

Further to our telephone discussion of December 4, 1973, we would appreciate information as to the present status of the above noted industrial plant insofar as air emission and the necessary permit is concerned.

The subject has come before the Burnaby Municipal Council on several occasions, the last time being December 3, 1973. The result was a request from the Municipal Manager to the effect that this Department submit a comprehensive report by Thursday, December 6, 1973 for his presentation to Council on December 10, 1973.

In view of the urgency of this matter, we would appreciate a reply from you as soon as possible.

Yours truly,

*original signed by*  
W.F. Sunderland, M.D., D.P.H.  
MEDICAL HEALTH OFFICER

GHA/dc



Greater Vancouver Regional District

2294 WEST TENTH AVENUE VANCOUVER, BRITISH COLUMBIA TELEPHONE 731-1155  
V6K 2H9

ITEM 29

MANAGER'S REPORT NO. 92

COUNCIL MEETING Dec. 10/73

Please refer to our file number: 10.18

Health Department,  
The Corporation of the District of Burnaby,  
Municipal Hall,  
4949 Canada Way,  
Burnaby 2, B.C.

December 5, 1973

Attention: Mr. G.H. Armson.

Dear Sir:

Re: Application for Pollution Control Permit  
on behalf of Domtar Construction Materials Ltd.

In reply to your letter of December 5, 1973 following our telephone conversation of the previous day I have enclosed a copy of Mr. Devlin's reply of October 5 to Dr. Sunderland's letter of October 1, 1973.

During June of this year Domtar Construction Materials of Wiggins' Street in Burnaby proposed through their Montreal office "to do something" about this plant and asked for G.V.R.D.'s advice. We suggested that the company should apply for a permit for air pollution control. Domtar agreed, made application and met with G.V.R.D. engineers and officials in the G.V.R.D. offices.

Domtar's proposal consists of ducting the emission from the asphalt blowing operation through a knock-out box and thence to an incinerator. Heavy droplets would be collected in the knock-out box by virtue of a lower velocity through it. In the incinerator the air, containing noxious odours, would be subject to 1,600° F. flame for a minimum of one half second. This should eliminate odorous materials from this source.

The ducting and the knock-out box are being installed now since they can be fabricated on site. The incinerator, however, is manufactured by U.I.P. Engineered Products Corporation and therefore has to be shipped to the site.

Domtar have advised that delivery time and erection time would be seven months from the placement of the order. Domtar were advised by letter on November 19, 1973 that a recommendation to issue a permit for this had been made to the Director so that they could place the equipment on order.

The permit, which is subject to the installation of this equipment and other conditions is just being issued. The other conditions require the equipment to be operating by a specific date (approximately seven months hence), a monitoring and sampling program which will keep a periodic check on the operation and limits as well on the concentration of sulphur dioxide and particulate matter which can be emitted.

If I can be of further immediate help please telephone.

Yours very truly,

  
J. M. Fitzsimmons, P.Eng.