



Greater Vancouver Regional District
4330 Kingsway, Burnaby, British Columbia, Canada V5H 4G8

General
Telephone (604) 432-6200
Fax (604) 432-6251

Air Quality and Source Control Department - Tel (604) 436-6700 Fax (604) 436-6707

PERMIT

(Under the provisions of the GVRD Air Quality Management Bylaw No. 725)

STELLA-JONES INC.

IS AUTHORIZED TO DISCHARGE AIR CONTAMINANTS

FROM A WOOD PRESERVING PLANT

LOCATED AT 25 BRAID STREET,

COQUITLAM, B.C. V3L 3P2

This permit has been issued under the terms and conditions prescribed in the attached Schedules A, B, C, D, E, F, G & H for emission sources and works existing or planned on March 15, 1993.


ASSISTANT AIR QUALITY DIRECTOR

PERMIT NUMBER GVA0063

INDEX OF SCHEDULES

Schedule A Site Plan

Schedule B General Requirements

Schedule C Emission Monitoring, Sampling and Reporting Requirements

Schedule D Emission Sources and Discharge Points

Schedule E Authorized Rates of Discharge

Schedule F Authorized Discharge Criteria

Schedule G Authorized Works and Procedures

Schedule H Record of Permit Issuance Dates



SCHEDULE B - PAGE 1
to PERMIT GVA0063

A. OBJECTIVES AND AMENDMENTS

Ambient air quality guidelines and objectives are prescribed under provisions of applicable legislation. If the level of air quality as prescribed by these criteria is exceeded, the conditions of this Permit may be revised, in order that the desired air quality can be maintained. This Permit may also be amended for other reasons, as authorized by applicable legislation.

B. MAINTENANCE AND OPERATION OF WORKS

Works and procedures, which this Permit authorizes to control the discharge of air contaminants, shall be employed during all operating periods of the related facilities. The Permittee shall regularly inspect and maintain all such works in good repair.

C. EMERGENCY PROCEDURES

An emergency or other condition may prevent the continuous utilization of the above authorized works and procedures, or may result in a discharge of air contaminants which is not authorized by this Permit. If such a situation occurs, the Permittee shall report the circumstances of this event to the Greater Vancouver Regional District, Air Quality and Source Control Department at 436-6777 (24 hours), at the first available opportunity.

No discharge that has bypassed control works is authorized unless the Air Quality Director's approval has been obtained. In the event of an emergency, bypassing facilities may be used for such periods as are necessary to effect a shutdown of the related processes.

D. AIR CONDITIONING, HEATING AND VENTILATION SYSTEMS

Air contaminants discharged from any natural gas-fired air conditioning, heating or ventilation systems for buildings located at the discharge site are not specified in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel with minimum discharge of air contaminants. Notwithstanding the above, the Air Quality Director may at his discretion stipulate limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE B - PAGE 2
to PERMIT GVA0063

E. GENERAL SITE RESTRICTIONS

No air contaminant(s) from any single source, or combination of sources shall pass the boundary of the property, described in Section H of this Schedule B, such that the Air Quality Director determines that air pollution has occurred.

F. ENGINEERING UNITS

The engineering units specified in this Permit are in accordance with the Metric System of measure. Approximate equivalent values for the British System can be calculated using the following conversion factors.

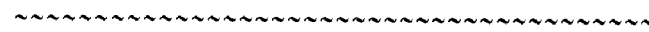
$\text{mg/m}^3 \times 0.000437$	=	gr/cf
$\text{m}^3/\text{min} \times 35.3$	=	cf/min
$\text{kg/m}^3 \times 0.0624$	=	lbs/cf
$\text{kg/L} \times 10.0$	=	lbs/gal
$\text{mg/m}^3 \times 24.0/\text{M}$	=	ppm (by volume)

where

m^3	=	cubic metre	min	=	minute
mg	=	milligram	cf	=	cubic feet
s	=	second	lb	=	pound
kg	=	kilogram	gal	=	gallon
L	=	litre	M	=	molecular weight
gr	=	grain	ppm	=	parts per million

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR



SCHEDULE B - PAGE 3
to PERMIT GVA0063

G. STANDARD CONDITIONS AND DEFINITIONS

Except where otherwise indicated, the following standard conditions and definitions apply to this Permit.

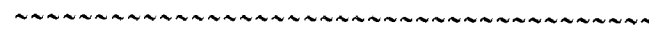
1. The Restrictions in the attached Schedules are maximum limits.
2. Gaseous volumes are corrected to dry conditions of 20° Celsius & 760mm Hg.
3. Particulate matter from combustion sources is corrected to 12% Carbon Dioxide.
4. Opacity is measured at the point of maximum density, nearest the discharge point.
5. Opacity measurements exclude the effect of condensed, uncombined water droplets.
6. Definitions in the Waste Management Act and GVRD Air Quality Management Bylaw No. 725 apply to terminology used in this Permit.
7. Threshold Limit Values (TLV) refer to the Time Weighted Average (TWA) exposure limits for substances specified in the American Conference of Governmental Industrial Hygienists Threshold Limit Values handbook for the years 1991 - 1992.
8. Any production, storage, transportation, handling, treatment, processing or ownership of a special waste must comply with the requirements of the Waste Management Act, Special Waste Regulation.

H. DESCRIPTION OF DISCHARGE SITE

The land from which the air contaminants are discharged is described as "Municipality of Coquitlam Parcel Identifier: 011-131-713 LOT "D" EXCEPT: FIRSTLY: Part subdivided by Plan 24152, SECONDLY: Part subdivided by Plan 42455 AND THIRDLY: Parcel "ONE" (Reference Plan 49372); District Lot 16 Group 1 New Westminster District Plan 4724".

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR



**SCHEDULE C - PAGE 1
to PERMIT GVA0063**

This Schedule describes emission monitoring, sampling and reporting requirements.

The Permittee shall conduct the following monitoring and sampling program on the discharges and submit the results to the Air Quality Director. The need for increased or decreased monitoring may be reviewed periodically by the Air Quality Director.

EMISSION NUMBER	DUE DATE(S)	REQUIREMENT(S)
General	March 31, 1993 and annually thereafter	Written report detailing the types and amounts of principal products produced and principal raw materials used in the preceding calendar year.
20	March 31, 1993 and annually thereafter	Written report detailing the types and amounts of fuel burned in the preceding calendar year.
General	March 31, 1993 and annually thereafter	Written report detailing the types, amounts and end use of organic solvents, organic solvent-containing materials and wood preserving chemicals used in the preceding calendar year.
17 & 22	March 31, 1992 and annually thereafter	Written report detailing the organic storage tank capacity, the material stored and the annual throughput for each tank for the preceding calendar year.

Emission testing and ambient air sampling and monitoring, shall be undertaken by the Permittee when required by the Air Quality Director.

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE D - PAGE 1
to PERMIT GVA0063

This Schedule describes the emission sources and discharge points located approximately as shown on Schedule A.

EMISSION NUMBER	EMISSION SOURCE	DISCHARGE POINT
01	ACA mix tank, storage tank and ammonia tank	Tank vent
10	Three centrifugal vacuum pumps associated with No. 1, 2 & 3 retorts	Seal water tanks and baffle tank
12	No. 5 retort cylinder	Two cylinder doors
13	No. 4 retort cylinder	Cylinder door
14	No. 3 retort cylinder	Cylinder door
15	No. 2 retort cylinder	Cylinder door
16	No. 1 retort cylinder	Cylinder door
17	Nine storage tanks containing creosote, creosote-petroleum and pentachlorophenol	Tank vents
18	Centrifugal vacuum pump associated with the No. 5 retort and rueping tank	Separator
19	Centrifugal vacuum pump associated with the No. 4 retort.	Tank vent
20	Process boiler	Stack
21	Bulk creosote transfer station	Rail car and gauge tank vents
22	Fuel oil storage tank	Tank vent

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE E - PAGE 1
to PERMIT GVA0063

The authorized rates of discharge for the emission sources described in Schedule D are:

EMISSION NUMBER	MAXIMUM AUTHORIZED RATE OF DISCHARGE			NOTES & ADDITIONAL REQUIREMENTS
	FLOW m ³ /min	DURATION hours/day	FREQUENCY days/week	
01, 17 & 22	See notes	24	7	The authorized maximum rate of discharge is that resulting from vapour venting during tank filling and breathing.
10	33	20	7	
12, 13, 14, 15 & 16	See notes	24	7	The authorized rate of discharge is that resulting from the opening of the retort and the venting of the treated materials.
18	11	1.5	7	
19	11	20	7	
20	75	24	7	
21	See notes	10	1	The authorized maximum rate of discharge is that resulting from vapour venting during tank filling and breathing.

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE F - PAGE 1
to PERMIT GVA0063

This Schedule describes the authorized maximum discharge criteria for emission sources which are located approximately as shown on Schedule D.

EMISSION NUMBER	PARAMETER	RESTRICTION	NOTES
01,10,12-19 21 & 22	Odour	See notes	None from any single source, or combination of sources, past the plant boundary such that the Air Quality Director determines that air pollution has occurred
20	Combustion Products	See notes	Typical products of natural gas combustion at a maximum firing rate of 14.7 MM Btu/hr.
20	Sulphur Oxides	800 mg/m ³	Expressed as SO ₂ . Restriction applies only during standby firing with No. 2 fuel oil.
20	Particulate matter	150 mg/m ³	Restriction applies only during standby firing with No. 2 fuel oil.
20	Opacity	10%	May be exceeded for a total of 3 min/hour. Restriction applies only during standby firing with No. 2 fuel oil.

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE G - PAGE 1
to PERMIT GVA0063

The authorized works and procedures to control the discharge of air contaminants from the emission sources described in Schedule D are indicated below. The Air Quality Director may require that further works be installed, if the existing works, in his opinion, do not provide an acceptable level of emission control. New works or alterations to existing works must be approved, in principle, by the Air Quality Director.

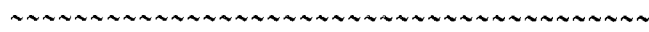
Where the Air Quality Director has specified that additional works are required, the maximum discharge criteria described in Schedule F of this Permit are applicable as specified by the Completion Date(s) listed below. Prior to the specified date(s) the existing control works and procedures must be maintained in good operating condition and operated in a manner to minimize emissions.

EMISSION NUMBER	COMPLETION DATE	DESCRIPTION OF WORKS/PROCEDURES
01, 17, 21 & 22	Completed	Good operating practices.
10 & 18	Completed	The existing condensers and related appurtenances together with good operating practices.
12	Completed	The use of pentachlorophenol or CCA in the No. 5 retort together with good operating practices.
13	Completed	The use of ammoniacal copper arsenate (ACA) or chromated copper arsenate (CCA) in the No. 4 retort together with good operating practices.
14	Completed	The use of pentachlorophenol or creosote in the No. 3 retort together with good operating practices.
15	Completed	The use of a creosote or creosote-petroleum blend in the No. 2 retort together with good operating practices.
16	Completed	The use of creosote in the No. 1 retort together with good operating practices.

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR

GREATER VANCOUVER REGIONAL DISTRICT



SCHEDULE G - PAGE 2
to PERMIT GVA0063

EMISSION NUMBER	COMPLETION DATE	DESCRIPTION OF WORKS/PROCEDURES
19	Completed	The venting of the vacuum pump discharge into an ACA or CCA recycle tank together with good operating practices.
20	Completed	The firing of the Saskatoon package boiler with natural gas and No. 2 fuel oil standby, using good combustion practices and operating procedures.

March 15, 1993


ASSISTANT AIR QUALITY DIRECTOR

~~~~~  
SCHEDULE H - PAGE 1  
to PERMIT GVA0063

RECORD OF PERMIT ISSUANCE

| DATE              | ACTION   | SECTIONS AFFECTED                       |
|-------------------|----------|-----------------------------------------|
| November 30, 1992 | Issuance | Face, Schedules A, B, C, D, E, F, G & H |
| March 15, 1993    | Amended  | Face, Schedules A, B, C, D, E, F, G & H |

March 15, 1993

  
ASSISTANT AIR QUALITY DIRECTOR