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Greater Vancouver Regional District
Greater Vancouver Water District
Greater Vancouver Sewerage and Drainage District
Greater Vancouver Housing Corporation

Policy & Planning Department, Regulation & Enforcement Division, Telephone 604-432-6200, Fax 604-436-6707

AMENDING DOCUMENT

Under the provisions of the
Greater Vancouver Regional District Air Quality Management Bylaw No. 937, 1999,

AIR QUALITY MANAGEMENT PERMIT NUMBER GVA0621

issued June 18, 1999

in the name of City of Vancouver

located at 900 East Kent Avenue South, Vancouver, BC

is amended, subject to the terms and conditions listed below:

Effective Date: OCT 26 2007

Schedule C, Emission monitoring, sampling and reporting requirements: Amend the Due Dates for Emission Number 01 as follows:

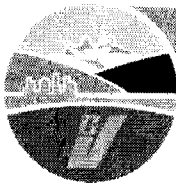
Emission Number	Due Dates	Requirements
01	December 14, 2007 August 31, 2008 and annually thereafter	The measured discharge rate and concentration of particulate matter, organics and carbon monoxide in the emissions. Testing will occur at a minimum of 80% of the rated capacity production rate (in tonnes per hour) and maximum utilization of recycle material. The final mix temperature (°C) shall also be recorded.

All other terms and conditions prescribed in Permit GVA0621 remain unchanged.

A handwritten signature in black ink, appearing to read "Silvano Padovan".

Amendment Date: OCT 26 2007

Silvano Padovan, Assistant District Director



Policy & Planning Department, Regulation & Enforcement Division, Telephone 604-432-6200, Fax 604-436-6707

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AIR QUALITY MANAGEMENT PERMIT NUMBER GVA0621

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Effective Date: **AUG 30 2007**

Schedule C, Emission monitoring, sampling and reporting requirements: Amend the Due Dates for Emission Number 01 as follows:

Emission Number	Due Dates	Requirements
01	October 31, 2007 August 31, 2008 and annually thereafter	The measured discharge rate and concentration of particulate matter, organics and carbon monoxide in the emissions. Testing will occur at a minimum of 80% of the rated capacity production rate (in tonnes per hour) and maximum utilization of recycle material. The final mix temperature (°C) shall also be recorded.

All other terms and conditions prescribed in Permit GVA0621 remain unchanged.

Amendment Date: **AUG 30 2007**

Silvano Padovan, Assistant District Director



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

General
Telephone (604) 432-6200
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Air Quality Department Phone: (604) 436-6700 Fax: (604) 436-6707

PERMIT

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

CITY OF VANCOUVER
IS AUTHORIZED TO DISCHARGE AIR CONTAMINANTS
FROM A BATCH ASPHALT PLANT
LOCATED AT 900 EAST KENT AVENUE, SOUTH VANCOUVER V5X 2X9

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 June 18, 1999


ASSISTANT AIR QUALITY DIRECTOR

PERMIT NUMBER GVA0621

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

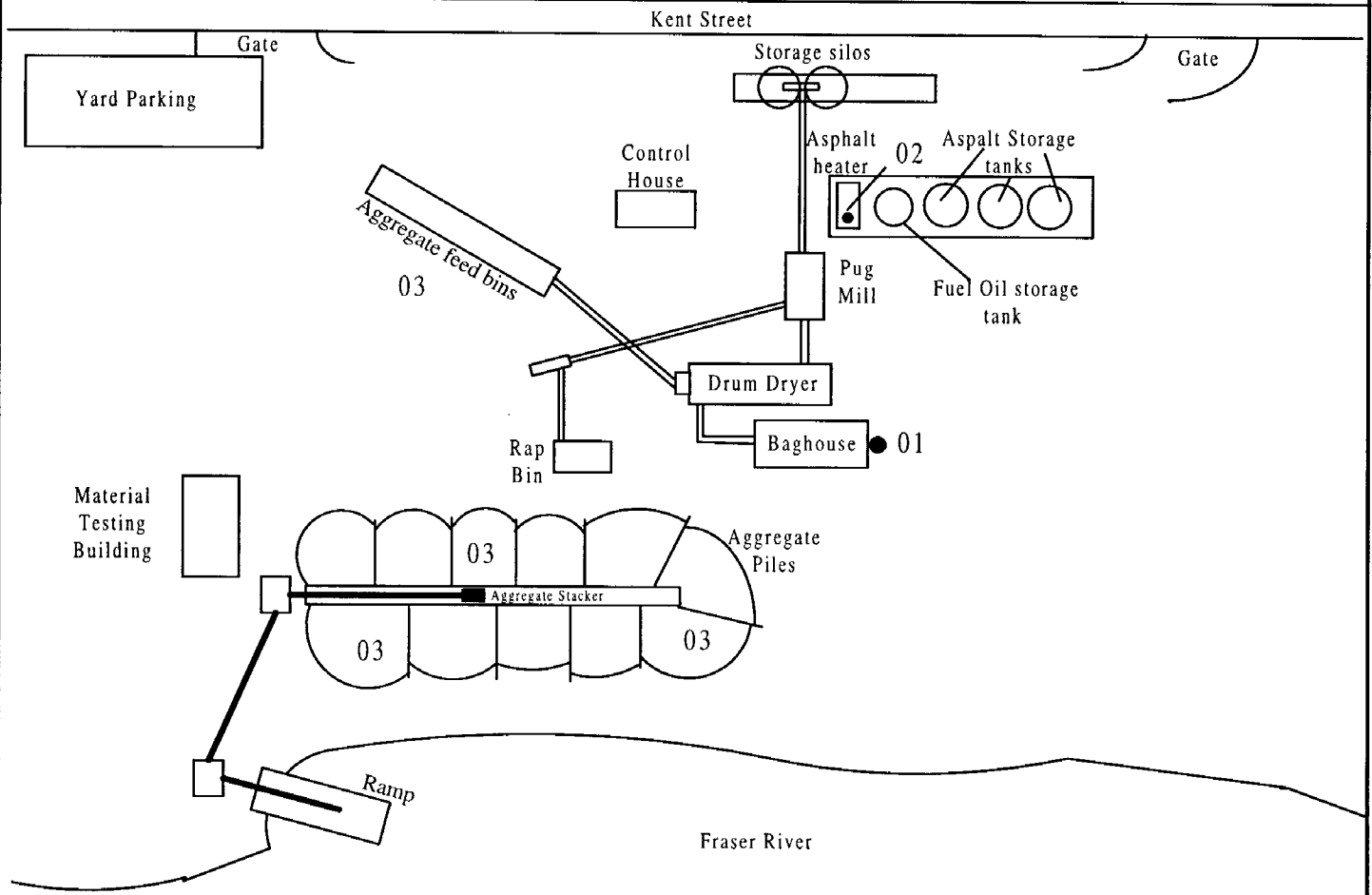
Schedule G..... Authorized Works and Procedures

Schedule H..... Record of Permit Issuance Dates

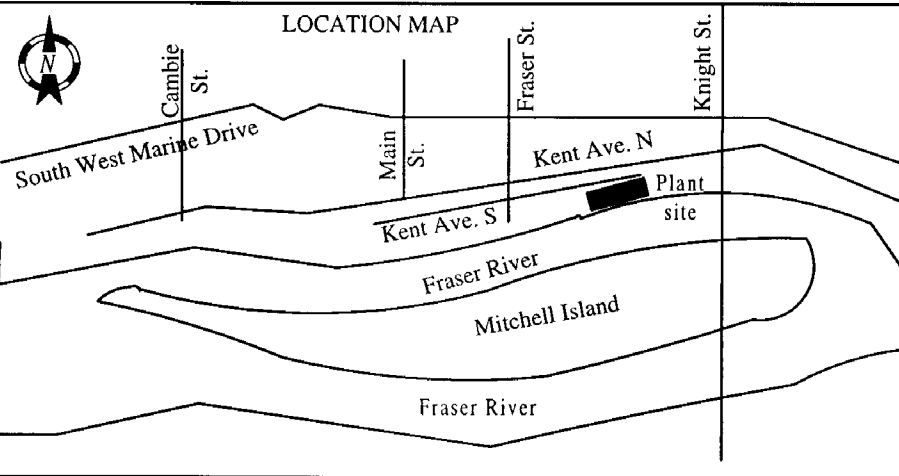
GREATER VANCOUVER REGIONAL DISTRICT

SCHEDULE A - PAGE 1
to PERMIT GVA0621

SITE PLAN



THE NUMBERED LOCATIONS OF THE DISCHARGE POINTS ARE APPROXIMATE N.T.S.



June 18, 1999

ASSISTANT AIR QUALITY DIRECTOR

Schedule A to Permit No. GVA0621

SCHEDULE B - PAGE 1
PERMIT No. GVA0621

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 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.

June 18, 1999


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE B - PAGE 2
 PERMIT No. GVA0621

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 I of this Schedule B, such that the Air Quality Director determines that air pollution has occurred.

F. INTERNAL COMBUSTION ENGINES

Air contaminants discharged from any natural gas, propane, gasoline, diesel, or other fossil fuel fired internal combustion engines operated at the discharge site may not be specifically authorized in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel and to minimize emissions such that the requirements of Section E of this Schedule B are not exceeded. The Air Quality Director may at his discretion stipulate further limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.

G. 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
$\text{mg/m}^3 \times 24.0/M$	=	ppm (by volume)
$\text{GJ/h} \times 0.9478$	=	MMBTU/h

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
GJ	=	GigaJoule	MMBTU	=	Million British Thermal Unit
			h	=	hour

June 18, 1999


 ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE B - PAGE 3
PERMIT No. GVA0621

H. 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. The authorized maximum rates of discharge described in Schedule E are corrected to dry standard conditions of 20° Celsius and 760 mm Mercury.
3. The authorized maximum discharge criteria described in Schedule F for the Asphalt Batch plant (Emission 01) are corrected to 16% oxygen and dry conditions of 20° Celsius and 760 mm Mercury. The authorized maximum discharge criteria described in Schedule F for all other sources are corrected to dry standard conditions of 20° Celsius and 760 mm Mercury.
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 year 1998.
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.

I. DESCRIPTION OF DISCHARGE SITE

The land from which the air contaminants are discharged is described as Block "P" (Plan 3402) except North 33 feet now road and except that part included in Plan 5477 District Lot 327 Group 1 N.W.D. Plan 3402 P.I.D. 006-582-991.

June 18, 1999


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE C - PAGE 1
 PERMIT No. GVA0621

This Schedule describes emission monitoring, sampling and reporting requirements.

EMISSION NUMBER	DUE DATE(S)	REQUIREMENT(S)
General	March 31, 2000 and annually thereafter	Written report detailing the types and amounts of principle products produced and principal raw materials used in the preceding calendar year.
General	March 31, 2000 and annually thereafter	Written report detailing the types and amounts of fuel burned in the preceding calendar year.
General	March 31, 2000 and annually thereafter	Written report detailing the total number of hours and days operated within the GVRD during the preceding calendar year. Records are to be maintained in a written bound log or other format approved by the Air Quality Director, and made available for inspection, by Air Quality staff for a minimum period of three years.
01	July 31, 1999	Written report detailing the method proposed for continuously monitoring and recording the operating period. This report shall include specifications for the proposed equipment, specify the location proposed for installation of the recording equipment, and detail the recording and reporting format to be used.
01	August 31, 1999 and annually thereafter	The measured discharge rate and concentration of particulate matter, organics and carbon monoxide in the emissions. Testing will occur at a minimum of 80% of the rated capacity production rate (in tonnes per hour) and maximum utilization of recycle material. The final mix temperature (° C) shall also be recorded.

June 18, 1999


 ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE C - PAGE 2
PERMIT No. GVA0621

EMISSION NUMBER	DUE DATE(S)	REQUIREMENT(S)
01	March 31, 2000 and annually thereafter	Written report indicating inspection frequency, bag condition and action taken or proposed to solve any problems detected for the baghouses described in Schedule G of this Permit.
02	March 31, 2000 and annually thereafter	Written report detailing the storage tank capacity, the material stored and the annual throughput for each tank for the preceding calendar year.

Unless otherwise approved by the Air Quality Director prior to any sampling or analysis, all emission measurements shall be performed by an independent agency in accordance with those procedures described in the most recent amendment of the "GVRD Stationary Emission Testing Requirements" manual issued on November 1994.

The Permittee shall provide the Greater Vancouver Regional District, Air Quality Department with a minimum of three days advance notification before emission measurements are conducted for the purpose of complying with Permit requirements. All field data and calculations collected for all testing conducted in accordance with such compliance determination must be submitted to the Air Quality Director. Monitoring results shall be reported in the metric units which are used in this Permit to specify the authorized discharge criteria. These submissions shall include the production rate at the time of the test, and all field data and calculations.

Any variance from these procedures must receive prior approval from the Air Quality Director.

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

June 18, 1999


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE D - PAGE 1
PERMIT No. GVA0621

The authorized emission sources and discharge points located approximately as shown on Schedule A are:

EMISSION NUMBER	EMISSION SOURCE	DISCHARGE POINT
01	Gencor 6000 lb Batch asphalt plant and two finished product silos.	Baghouse exhaust
02	Three asphalt storage tanks, one fuel oil storage tank and a natural gas fired asphalt heater.	Five vents
03	Aggregate feed bins and aggregate storage piles.	Aggregate storage area

June 18, 1999


ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE E - PAGE 1
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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	1780	24	7	Total number of operating hours not to exceed 2000 hours/year.
02	114	24	7	
03	See notes	24	7	The authorized rate of discharge is that resulting from the transfer and reclaiming operations as well as stockpile wind erosion effects.

June 18, 1999


 ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE F - PAGE 1
PERMIT No. GVA0621

The authorized maximum discharge criteria for emission sources described in Schedule D are:

EMISSION NUMBER	PARAMETER	RESTRICTION	NOTES
01	Opacity	10%	Based on a six minute average. Not to exceed 30% opacity at any time.
01	Carbon Monoxide	200 mg/m ³	One hour average.
01	Particulate Matter	90 mg/m ³	
01	Organics	60 mg/m ³	One hour average. Expressed as methane.
01	Combustion Products	See notes	Typical products of natural gas combustion at a maximum firing rate of 74 GJ/hr.
01	Sulphur Oxides	800 mg/m ³	Applies to stand by fuel oil firing only. The sulphur content of fuel shall not exceed 0.5 percent by weight.
01 & 02	Odour	See notes	None past the plant boundary such that the Air Quality Director determines that air pollution has occurred.
02	Combustion Products	See notes	Typical products of natural gas combustion at a maximum firing rate of 2.1 GJ/hr.
02	Opacity	10%	Based on a six minute average.
02	Sulphur Oxides	800 mg/m ³	Applies to stand by fuel oil firing only. The sulphur content of fuel shall not exceed 0.5 percent by weight.
03	Opacity	20%	Based on a six minute average.
03	Particulate matter	See notes	None past plant boundary such that the Air Quality Director determines that air pollution has occurred.

June 18, 1999


 ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE G - PAGE 1
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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	Completed	The firing of the low NOx asphalt dryer drum burner with natural gas and/or No. 2 fuel oil (or lighter distillate), using good combustion practices and operating procedures. The knock out box, baghouse and related appurtenances together with good operating procedures.
02	Completed	The firing of the asphalt heater with natural gas and/or No. 2 fuel oil (or lighter distillate) using good combustion practices and operating procedures.
03	Completed	The water spray system and partial enclosures together with good operating procedures.

June 18, 1999


 ASSISTANT AIR QUALITY DIRECTOR

SCHEDULE H - PAGE 1
PERMIT No. GVA0621

RECORD OF PERMIT ISSUANCE

DATE	ACTION	SECTIONS AFFECTED
June 18, 1999	Issuance	Face, Schedules A, B, C, D, E, F, G & H

June 18, 1999


ASSISTANT AIR QUALITY DIRECTOR