

AMENDING DOCUMENT

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

AIR QUALITY MANAGEMENT PERMIT NUMBER GVA0307
(last amended April 9, 1998)

in the name of **PCL Plastics Corporation**,
located at 7503 Vantage Place, Delta, B.C., V4G 1A5

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

Effective Date(s): April 30, 2007

Face Page: The company name is changed from PCL Plastics Corporation to Inteplast Bags and Films Corporation.

Schedule A: No changes.

Schedule B: No changes.

Schedule C: No changes.

Schedule D: No changes.

Schedule E: No changes.

Schedule F: No changes.

Schedule H, Record of Permit Issuance: Add new text under the headings:

Date	Action	Sections Affected
APR 30 2007	Amendment	Face Page & Schedule H

All other terms and conditions prescribed in Permit GVA0307 remain unchanged.



Amendment Date: APR 30 2007

R. H. ROBB, DISTRICT DIRECTOR



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

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

Air Quality Department - Tel (604) 436-6700 Fax (604) 436-6707
Located at: 4720 Kingsway, Burnaby, B.C.

PERMIT

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

PCL PLASTICS CORPORATION  
IS AUTHORIZED TO DISCHARGE AIR CONTAMINANTS  
FROM A PLASTIC BAG MANUFACTURING PLANT  
LOCATED AT 7503 VANTAGE PLACE, DELTA, B.C. V4G 1A5

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 April 9, 1998.

  
ASSISTANT AIR QUALITY DIRECTOR

PERMIT NUMBER GVA0307

**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

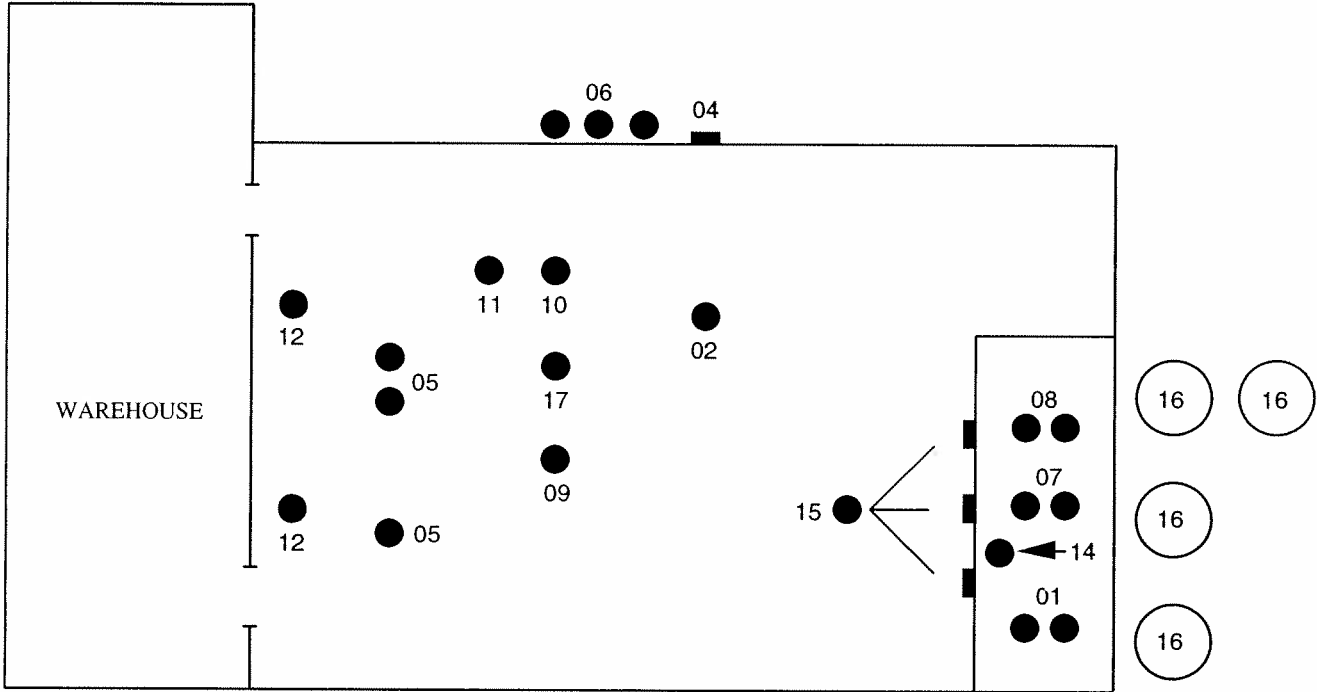
Schedule F..... Authorized Discharge Criteria

Schedule G..... Authorized Works and Procedures

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

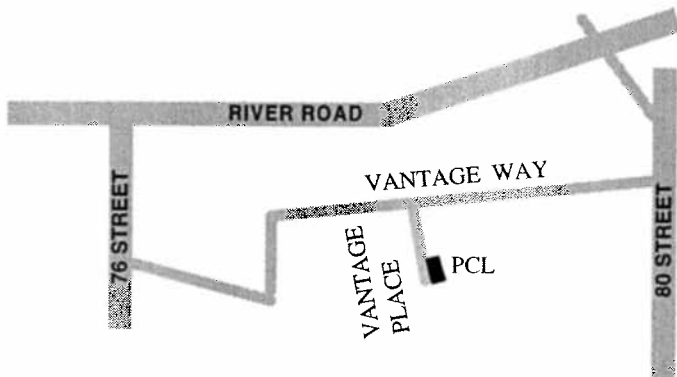
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SITE PLAN



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

LOCATION MAP



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Schedule A to Permit No. GVA0307

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SCHEDULE B - PAGE 1  
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**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.

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

where

|              |   |             |       |   |                              |
|--------------|---|-------------|-------|---|------------------------------|
| $\text{m}^3$ | = | 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                         |

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**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. 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 year 1997.
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 "Municipality of Delta Parcel Identifier: 005-277-272 Lot 40 of District Lot 120 Group 2 Plan 54643 New Westminster District."

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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.

| <b>EMISSION NUMBER</b> | <b>DUE DATE(S)</b>                                      | <b>REQUIREMENT(S)</b>                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General                | March 31, 1998 and annually thereafter                  | Written report detailing the types and amounts of principal products produced and principal raw materials used in the preceding calendar year.                                                                                                                                            |
| General                | March 31, 1998 and annually thereafter                  | Written report detailing the types, amounts and end use of organic solvents and organic solvent-containing materials used in the preceding calendar year.                                                                                                                                 |
| 02                     | March 31, 1998 and annually thereafter                  | Written report detailing the types and amounts of fuel burned in the preceding calendar year.                                                                                                                                                                                             |
| 06                     | March 31, 1998 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.                                                                                                                                  |
| General                | December 31, 1998 and at six month intervals thereafter | Written report detailing the actions proposed and/or taken to reduce overall VOC emissions from the facility. The report shall specify the types of controls investigated, including the use of water based inks, and the timeline for implementation of specific VOC reduction measures. |
| 01                     | March 31, 1999 and at two year intervals thereafter     | The measured discharged rate and concentration of total hydrocarbons in the emissions.                                                                                                                                                                                                    |

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| EMISSION NUMBER | DUE DATE(S)                                         | REQUIREMENT(S)                                                                                                                                                                                                                    |
|-----------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15              | March 31, 1999 and at two year intervals thereafter | The measured discharge rate and concentration of ozone in the emissions.                                                                                                                                                          |
| 15              | March 31, 1999 and annually thereafter              | Written report indicating inspection frequency, depth of active catalyst, catalyst replacement dates, and action taken or proposed to solve any problems detected for the Corona treaters described in Schedule G of this Permit. |

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 in 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.

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

| EMISSION NUMBER | EMISSION SOURCE                                                                                        | DISCHARGE POINT              |
|-----------------|--------------------------------------------------------------------------------------------------------|------------------------------|
| 01              | #1 W & H polyethylene film extruder                                                                    | Two stacks                   |
| 02              | #2 Wolverine printing press                                                                            | Roof vent                    |
| 04              | Ventilation of the ink storage room                                                                    | Wall vent                    |
| 05              | Five plastic bag cutting and sealing machines (FMC 144, DW 106, Finkon Gar-Bag, FMC 1150 and FMC 1150) | One stack and two roof vents |
| 06              | Four 1,000 gallon underground solvent storage tanks                                                    | Three tank vents             |
| 07              | #2 W & H polyethylene film extruder                                                                    | Two stacks                   |
| 08              | #3 W & H polyethylene film extruder                                                                    | Two stacks                   |
| 09              | #4 CMF printing press                                                                                  | Roof vent                    |
| 10              | #6 CMF printing press                                                                                  | Roof vent                    |
| 11              | FMC 1150 bag cutting and sealing machine                                                               | Roof vent                    |
| 12              | General ventilation of printing, cutting and sealing operations                                        | Two roof vents               |
| 14              | Extrusion area ventilation                                                                             | Roof vent                    |
| 15              | Three Corona treaters                                                                                  | Stack                        |
| 16              | Four - 250,000 lb. polyethylene storage silos                                                          | Four silo vents              |
| 17              | #5 CMF printing press                                                                                  | Roof vent                    |

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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<br>m <sup>3</sup> /min          | DURATION<br>hours/day | FREQUENCY<br>days/week |                                                                                                                   |
| 01              | 57                                   | 24                    | 7                      |                                                                                                                   |
| 02              | 84                                   | 24                    | 7                      |                                                                                                                   |
| 04              | 29                                   | 24                    | 7                      |                                                                                                                   |
| 05              | 168                                  | 24                    | 7                      |                                                                                                                   |
| 06              | See notes                            | 24                    | 7                      | The authorized maximum rate of discharge is that resulting from vapour venting during tank filling and breathing. |
| 07              | 57                                   | 24                    | 7                      |                                                                                                                   |
| 08              | 57                                   | 24                    | 7                      |                                                                                                                   |
| 09              | 58                                   | 24                    | 7                      |                                                                                                                   |
| 10              | 180                                  | 24                    | 7                      |                                                                                                                   |
| 11              | 84                                   | 24                    | 7                      |                                                                                                                   |
| 12              | 311                                  | 24                    | 7                      |                                                                                                                   |
| 14              | 140                                  | 24                    | 7                      |                                                                                                                   |
| 15              | 45                                   | 24                    | 7                      |                                                                                                                   |
| 16              | 128                                  | 8                     | 7                      | The frequency of filling is variable.                                                                             |
| 17              | 124                                  | 24                    | 7                      |                                                                                                                   |

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 ASSISTANT AIR QUALITY DIRECTOR

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

| EMISSION NUMBER         | PARAMETER             | RESTRICTION           | NOTES                                                                                                                                                                                                                      |
|-------------------------|-----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 02, 04, 06, 09, 10 & 17 | Chemical Contaminants | See notes             | The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants is less than 10. |
| 02                      | Combustion Products   | See notes             | Typical products of natural gas combustion at a maximum firing rate of 1.27 GJ/h.                                                                                                                                          |
| 01, 02, 04-15 & 17      | Odour                 | See notes             | None past the plant boundary such that the Air Quality Director determines that air pollution has occurred.                                                                                                                |
| 02, 05, 09-11, 16 & 17  | Opacity               | 10 percent            |                                                                                                                                                                                                                            |
| 15                      | Ozone                 | 2 mg/m <sup>3</sup>   |                                                                                                                                                                                                                            |
| 05 & 11                 | Particulate matter    | 50 mg/m <sup>3</sup>  |                                                                                                                                                                                                                            |
| 16                      | Particulate matter    | 120 mg/m <sup>3</sup> |                                                                                                                                                                                                                            |
| 01, 05, 07, 08 & 11     | Total hydrocarbons    | 102 mg/m <sup>3</sup> | Expressed as methane.                                                                                                                                                                                                      |

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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, 04-14, 16 & 17 | Completed       | Good operating practices.                                                                                                     |
| 02                 | Completed       | The firing of the forced air heater with natural gas, using good combustion practices and operating procedures.               |
| 15                 | Completed       | Pillar Technologies ozone destruct system, Model OZD-1500, and related appurtenances, together with good operating practices. |

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RECORD OF PERMIT ISSUANCE

| DATE              | ACTION    | SECTIONS AFFECTED                       |
|-------------------|-----------|-----------------------------------------|
| November 16, 1992 | Issuance  | Face, Schedules A, B, C, D, E, F, G & H |
| March 8, 1996     | Amendment | Face, Schedules A, B, C, D, E, F, G & H |
| April 9, 1998     | Amendment | Face, Schedules A, B, C, D, E, F, G & H |

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ASSISTANT AIR QUALITY DIRECTOR