

# Environment Act Licence

Manitoba  
Environment



Licence No. 1628  
Issue Date FEBRUARY 4, 1993

In accordance with the Manitoba Environment Act (C.C.S.M. c. E125)

THIS LICENCE IS ISSUED TO:

**PERRY'S MACHINE SHOP LTD.: "the Licencee"**

for the operation of the Development being a manufacturing and industrial plant on Lot 1, Plan No. 19616 WLTO in Lot 198 Roman Catholic Mission Property in the City of Winnipeg, subject to the following specifications, limits, terms and conditions:

## **DEFINITIONS**

In this Licence,

"A-weighted sound level" means the sound level measured in dBA units with a sound level meter set on the A-weighting network, being a filter designed to approximate the relative sensitivity of the normal human ear to different frequencies of sound;

"appreciable impulsive or impact character" means sound which has a significant amount of impulsive or impact nature, such as hammering, explosions and clanking or banging. Impulsive or impact sounds are sounds of short duration, usually less than one second, characterized by an abrupt onset followed by a rapid decay;

"ambient concentration" means the measurement of a substance contained in an air sample (corrected to a temperature of 25 ° C and to a pressure of 101.3 kilopascals) which has been collected from any point beyond the property line of the operation;

"ash" means the residual waste material produced by the degreasing or cleaning process of any thermal oven specifically designed for such purposes;

"controlled products" means any product, material or substance specified by the regulations made pursuant to paragraph 15(1)(a) of The Hazardous Products Act to be included in any of the classes listed in Schedule II of that Act;

"dB" (decibel) means a dimensionless measure of sound level or sound pressure level, where,  
$$\text{sound level} = 20 \log_{10} \frac{\text{sound pressure (actual)}}{\text{sound pressure (reference)}};$$

"4 minute period(s) in the aggregate" means any 16 readings, not necessarily contiguous, taken at 15 second intervals within a 1 hour sampling period;

"Leq (energy equivalent level)" means the A-weighted sound level (as decibels {dBA}) of a constant or steady sound, for a stated period, which has an amount of acoustic energy equivalent to that contained in the sound being measured;

"Leq(1)" means the Leq for a one hour period;

"opacity" means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background;

"particulate matter" means any finely divided liquid or solid matter other than water droplets;

"particulate residue" means that part or portion of an atmospheric emission which is deposited onto a surface;

"point source" means any point of emission from a Development where pollutants are ducted into the atmosphere;

"predominant discrete tone" means sound (for example a whine or hum) having a one-third octave band sound level which, when measured in a one-third octave band, exceeds the arithmetic average of the sound levels of the two adjacent one-third octave bands on either side of such one-third octave band by:

- i) 5 dB for such one-third octave band with a center frequency from 500 Hertz to 20,000 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band;
- ii) 8 dB for such one-third octave band with a center frequency from 160 Hertz to 400 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band; or
- iii) 15 dB for such one-third octave band with a center frequency from 25 Hertz to 125 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band;

"representative sample" means a sample collected by a methodology acceptable to an Environment Officer;

"sewage" means human body, toilet, liquid, waterborne culinary, sink or laundry waste;

"VOC" (Volatile Organic Compound) means any chemical compound containing the element carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonates, ammonium carbonate, and other compounds which may be exempt by the Director.

### GENERAL SPECIFICATIONS

1. The Licencee shall ensure that a high standard of equipment maintenance and good housekeeping and operational practices are carried out with respect to the Development, at all times.
2. The Licencee shall reduce the production and dissemination of wastes by initiating and maintaining waste reduction and waste recycling programs.

## LIMITS, TERMS AND CONDITIONS

### I - AIR EMISSIONS

3. The Licencee shall not emit particulate matter from the Development such that:
- i) particulate matter:
    - a) exceeds 0.23 grams per dry standard cubic metre calculated at 25 degrees Celsius and 760 millimetres of mercury, corrected to 12 percent carbon dioxide for processes involving combustion from any point source of the Development;
    - b) exhibits a visible plume with an opacity of greater than 5 percent at any point beyond the property line of the Development; or
    - c) results in the deposition of visible particulate residue at any time beyond the property line of the Development;

AND,

- ii) opacity from any point source of the Development equals or exceeds:
    - a) 20 percent for a 4 minute period(s) in the aggregate in any one hour; or
    - b) 40 percent at any time.
4. The Licencee shall not emit sound from any part or process of the Development, such that any emission when measured at a point of reception within an area which is zoned as residential, exceeds the following {Leq(1)} limits:
- i) subject to sub-Clause 4 (ii):
    - a) 60 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time; or
    - b) 50 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time;

AND,

- ii) when the sound has an appreciable impulsive or impact character or a predominant discrete tone:
    - a) 55 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time; or
    - b) 45 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time.
5. The Licencee shall not emit sound from any part or process of the Development, such that any emission when measured at a point of reception within an area which is zoned as commercial, exceeds the following {Leq(1)} limits:
- i) 70 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time; or
  - ii) 60 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time.
6. The Licencee shall not emit sound from any part or process of the Development, such that any emission when measured at a point of reception, beyond the property line of the Development and within an area which is zoned as industrial, exceeds 70 dBA at any time.

7. The Licencee shall not emit odour from any part or process of the Development such that any emission is detectable when measured at a point of reception:
- i) within an area which is zoned as residential or commercial when one volume of odorous air is diluted with one equal volume of odour-free air; or
  - ii) within an area which is zoned as industrial when one volume of odorous air is diluted with six equal volumes of odour-free air.

## II - LIQUID EMISSIONS

8. The Licencee shall not direct any spillage, contaminated run-off or pollutant, other than sewage, to a sewage disposal system.
9. The Licencee shall create and maintain a current duplicate inventory of all controlled products stored at the Development, with one copy stored at the premises of the Development, and the other copy stored at a location off-site from the Development. This inventory shall, in addition to other requirements:
- i) record quantities used on a quarterly basis;
  - ii) contain the latest two (2) years of information; and
  - iii) be made available to an Environment Officer upon request.

## III - SAMPLING AND ANALYSIS

10. The Licencee shall determine the classification of a representative sample of the ash produced at the Development, in accordance with Schedule B of Manitoba Regulation 282/87, within six months of the issuance of this Licence and at any subsequent time as may be requested by the Director. The ash shall be tested for the following:
- i) arsenic;
  - ii) barium;
  - iii) cadmium;
  - iv) chromium;
  - v) lead;
  - vi) mercury;
  - vii) selenium; and
  - viii) silver.
11. The Licencee shall submit a copy of the sampling report complete with analytical results as specified pursuant to Clause 10, to the Director within 60 days of the completion of the sampling program.
12. The Licencee shall provide, at the request of the Director, a sampling station(s) at designated point source stacks. The station(s) shall provide proper access, personnel safety features, power supply and other features as may be specified by the Director.

13. The Licencee shall, when requested by the Director, conduct a sampling program and analyse air emissions and/or ambient concentration at the Development for all or any of the following:
- i) VOC's;
  - ii) particulates;
  - iii) opacity;
  - iv) carbon monoxide;
  - v) sulphur dioxide;
  - vi) arsenic;
  - vii) barium;
  - viii) cadmium;
  - ix) chromium;
  - x) lead;
  - xi) mercury;
  - xii) selenium; and
  - xiii) silver.

Samples are to be collected using methods approved by the Director, and analysis is to be performed in a manner approved by the Director.

14. The Licencee shall submit a copy of the sampling report complete with analytical results as specified pursuant to Clause 13, to the Director within 60 days of the completion of the sampling program.
15. This Licence shall be reviewed by the Director on or before April 1, 1998, for the purpose of reaffirming or revising the limits, terms and conditions set out in this Licence.

### REVOCATION

If in the opinion of the Director the Licencee has exceeded or is exceeding the specifications, limits, terms or conditions set out herein, the Director may revoke, temporarily or permanently, this Licence.



**Larry Strachan, P. Eng.**  
**Director**  
**Environment Act**

File No.: 3512.00