

This Report has been cleared
for submission to the Director by
Programme Manager Frank Clinton
Signed Frank Clinton Date 1/2/11



OFFICE OF CLIMATE,
LICENSING & RESOURCE
USE

ENVIRONMENTAL LICENSING PROGRAMME MEMORANDUM

TO:	LAURA BURKE, DIRECTOR
C.C:	Frank Clinton, Programme Manager
FROM:	Brian Meaney, Senior Scientific Officer
DATE:	01 February 2011
RE:	Proposal for a Technical Amendment to Waste Licence Register Number W0184-01 held by Atlas Environmental Ireland Ltd in relation to a waste facility at Clonminam Industrial Estate, Portlaoise.

Introduction

Enva Ireland Ltd, t/a Enva operates a recycling facility for waste oil and other wastes at Clonminam Industrial Estate, Portlaoise. The licensee is authorised to recover and dispose of up to 35,000 tonnes of waste oil, 40,000 tonnes of contaminated soil, 1,000 tonnes of oil filters and 5,000 tonnes of other hazardous waste. The licensee is also authorised to recover and dispose of up to 29,000 tonnes of sewage and other sludges and other non-hazardous, non-putrescible waste.

The facility was licensed on 16 January 2004. Technical Amendment A was issued on 11 October 2005 and contained new conditions on resource use and energy efficiency, accident prevention and decommissioning and residuals management.

Details of Request for Technical Amendment

The licence is proposed for technical amendment by the Office of Environmental Enforcement. The proposal is to insert conditions into the licence to control and regulate the outputs from the oil reprocessing activity. Under section 42B(2) of the Waste Management Acts 1996 to 2010, I consulted Enva on the proposals for technical amendment (except for the proposal for a new Schedule G.3 – see below). Enva indicated no objection to the restrictions proposed.

Reprocessed fuel oil – 11LS – in the asphalt sector

Enva currently produces a reprocessed oil, known as 11LS. This oil is used as a fuel in the asphalt sector and agreement has been reached between Enva and OEE that the oil will only be used in the asphalt sector. However, there is no condition in the licence controlling such use. The proposed **condition 5.3.5** will restrict use of the 11LS product to the asphalt sector, reflecting current practice. Enva has no objection to this restriction, which is already adopted voluntarily, being formalised in the licence.

Reprocessed fuel oil that meets the UK Quality Protocol for Processed Fuel Oil

Enva proposes producing reprocessed oil to a higher standard for use in heat exchange applications such as steam raising boilers. The standard proposed by Enva is contained in a Quality Protocol published by Wrap and the Environment Agency. The Quality Protocol was notified to the European Commission and Member States under Directive 98/34/EC as an end-of-waste standard for reprocessed fuel oil. The Quality Protocol dictates the technical standard to be achieved in the manufacture of reprocessed fuel oil and this technical standard is proposed as **Schedule G.2** of the licence. However, the Quality Protocol does not place explicit limitations on the downstream use of the reprocessed oil. This is unsatisfactory to the Office of Environmental Enforcement who have expressed concerns that reprocessed fuel oil could be used, in the absence of appropriate controls, in direct heat transfer applications that have the potential to contaminate animal feedstock. The proposed **condition 5.3.6** will restrict the use of this reprocessed oil to non-contact uses for example in raising steam.

To provide assurance on the destination and appropriate use of reprocessed fuel oil, Enva has stated a willingness to put in place a "formal supply agreement" with customers. A formal supply agreement would include a buy-back clause in the event that a customer cannot or does not wish to combust the reprocessed fuel oil. This will avoid the situation whereby a customer will sell on reprocessed fuel oil, perhaps for inappropriate uses. The requirement for a formal supply agreement is proposed in the new **condition 5.3.6** of the licence.

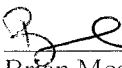
The existing **Schedule G.1** is proposed for amendment to incorporate the monitoring requirements for reprocessed oil to the Quality Protocol standard.

A new **Schedule G.3** will restrict inputs to the production process to the EWC codes specified in the Quality Protocol.

Recommendations

I recommend amendment of condition 5.3 and Schedule G as set out above.

Signed:



Brian Meaney
Environmental Licensing Programme



Headquarters
P.O. Box 3000
Johnstown Castle Estate
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Ireland

TECHNICAL AMENDMENT B
TO
WASTE LICENCE

Licence Register Number:	W0184-01
Licensee:	Atlas Environmental Ireland Limited
Location of Facility:	Clonminam Industrial Estate, Portlaoise, Co. Laois.

Reasons for the Decision

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of licence Reg. No. W0184-01 granted on 16 January 2004 (and amended on 11 October 2005) as well as any amendments noted herein, any emissions from the activity will comply with and not contravene any of the requirements of Section 40(4) of the Waste Management Acts 1996 to 2010.

Technical Amendment

In pursuance of the powers conferred on it by Section 42B(1)(c) of the Waste Management Acts 1996 to 2010, the Agency amends Licence Reg. No. W0184-01, granted to Atlas Environmental Ireland Ltd, Clonminam Industrial Estate, Portlaoise, Co. Laois.

Henceforth, the licence shall be read in conjunction with Amendment A issued on 11 October 2005 and the amendments set out below.

This technical amendment is limited to the following condition and schedule:

- Condition 5.3; and
- Schedule G.

Amendments

Conditions of Licence

- 5.3.5** Reprocessed oil meeting the criteria set out in column 2 (*Limit for reprocessed oil*) of *Schedule G.2: Reprocessed Oil Quality Standards-Limitations* shall be dispatched only for use as a fuel in hot-mix asphalt plants. Reprocessed oil meeting these criteria shall not be used as a fuel in any other applications without the prior written agreement of the Agency.
- 5.3.6** (i) Reprocessed oil meeting the criteria set out in column 3 (*Limit for a 'residual oil equivalent'*) of *Schedule G.2: Reprocessed Oil Quality Standards-Limitations* shall be dispatched only for use as a fuel in steam raising boilers. This material shall not be used in direct contact heating/drying applications where the combustion residues become part of any product being produced.
- (ii) The licensee shall put in place formal supply agreements with the operators of facilities that use the reprocessed oil produced. The supply agreements shall contain buy-back clauses in the event that customers do not or cannot use this material as fuel. A register of customers shall be maintained for inspection by the Agency. The licensee shall, if so instructed by the Agency on environmental or other grounds, restrict or discontinue the supply of this material to any existing or prospective customers.
- 5.3.7** In addition to the restrictions of condition 5.3.1, the reprocessed oil referred to in condition 5.3.6 shall only be produced using as inputs the waste types listed in *Schedule G.3 Limitations on input for production of a 'residual oil equivalent' with use restricted according to condition 5.3.6 of this licence, by EWC code* of this licence.

*Delete condition 5.3.5 of the existing licence and replace with the new condition 5.3.5 above.
Insert new conditions 5.3.6 and 5.3.7 after the new condition 5.3.5.*

Schedules to Licence

SCHEDULE G : Reprocessed Oil Quality, Monitoring and Input Restrictions

G.1 Monitoring of Reprocessed Oil

Parameter	Monitoring frequency ^{Note 1}	Analysis method for reprocessed oil with use restricted according to condition 5.3.5 of this licence ^{Note 2}	Analysis method for a 'residual oil equivalent' with use restricted according to condition 5.3.6 of this licence ^{Note 2}
Cadmium	Per batch release	Atomic Absorption	Atomic Absorption
Nickel	Per batch release	Atomic Absorption	Atomic Absorption
Chromium	Per batch release	Atomic Absorption	Atomic Absorption
Copper	Per batch release	Atomic Absorption	Atomic Absorption
Vanadium	Per batch release	Atomic Absorption	Atomic Absorption
Lead	Per batch release	Atomic Absorption	IP PM EB
Chlorine	Per batch release	Standard method	-
Fluorine	Per batch release	Standard method	-
Sulphur	Per batch release	Standard method	-
Ash	Per batch release	Standard method	-
Water	Per batch release	Karl Fisher	-
PCB's	Per batch release	ASTM D4059-96	IP 462
Sulphated ash content	Per batch release		IP 550
Total halogens, as chlorine	Per batch release		IP 503
Mercury	Per batch release		IP PM DZ
Zinc	Per batch release		To be agreed
Arsenic	Per batch release		To be agreed
Thallium	Per batch release		To be agreed
Antimony	Per batch release		To be agreed
Cobalt	Per batch release		To be agreed
Manganese	Per batch release		To be agreed
Other ^{Note 3}			

Note 1: Any alteration to the monitoring frequency specified subject to the prior written agreement of the Agency.

Note 2: Or an alternative method to the satisfaction of the Agency.

Note 3: Other parameters as may be specified by the Agency.

G.2 Reprocessed Oil Quality Standard – Limitations

Parameter	Limit for reprocessed oil with use restricted according to condition 5.3.5 of this licence (mg/kg)	Limit for a 'residual oil equivalent' with use restricted according to condition 5.3.6 of this licence (mg/kg, unless otherwise specified)
Cadmium	25	5
Nickel	100	5
Chromium	50	5
Vanadium	100	5
Lead	800	25
Chlorine	3000	-
Sulphur	10000	-
Ash	15000	-
PCB's	10	5
Sulphated ash content	-	0.2% (m/m)
Total halogens, as chlorine	-	150
Mercury	-	5
Copper	-	40
Zinc	-	300
Arsenic	-	5
Thallium	-	5
Antimony	-	5
Cobalt	-	5
Manganese	-	5
Other ^{Note 1}		

Note 1: Other parameters as may be specified by the Agency.

G.3 Limitations on input for production of a 'residual oil equivalent' with use restricted according to condition 5.3.6 of this licence, by EWC code

12 01 07*	13 01 10*	19 02 07*	20 01 26*
12 01 10*	13 01 11*		
12 01 19*	13 01 12*		
	13 01 13*		
	13 02 05*		
	13 02 06*		
	13 02 07*		
	13 02 08*		
	13 03 07*		
	13 03 08*		
	13 03 09*		
	13 03 10*		
	13 04 01*		
	13 04 02*		
	13 04 03*		
	13 05 02*		
	13 05 03*		
	13 05 06*		
	13 05 08*		
	13 07 01*		
	13 07 03*		

Delete Schedule G (Tables G.1 and G.2) of the existing licence and replace with the above Schedule G (Tables G.1, G.2 and G.3).

This technical amendment shall be cited as Amendment B (in pursuance of Section 42B(1) of the Waste Management Acts 1996 to 2010) to Waste Licence Register No. W0184-01.

Sealed by the seal of the Agency on this the day of 200*

**PRESENT when the seal of the Agency
was affixed hereto:**

Laura Burke, Director/Authorised Person