184-1

ENVIRONMENTAL PROTECTION AGENCY
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Mr Frank Heslin
Senior Engineer
Environment Section
Laois County Council
County Hall
Portlaoise
County Laois

Date | Our ref. | Your ref.

25th March 2003 Reg No: 184-1

Dear Mr Heslin,

I am to advise you that the Agency has received an application for a Waste Licence from Atlas Environmental Ireland Limited, for a facility located at Atlas Environmental Ireland Limited, Clonminam Industrial Estate, Portlaoise, County Laois.

The applicant proposes, as part of this application, to provide for the discharge of trade effluent or other matter to a sewer, which the applicant has stated is vested in, or controlled by, your Council. I enclose copy extracts from the application form, which detail proposed discharges.

Where the Agency proposes to grant a waste licence to an activity which involves the discharge of trade effluent or other matter (other than domestic sewage or storm water), to a sewer vested in or controlled by a sanitary authority, Section 52 of the Waste Management Act 1996, provides that the Agency shall obtain the consent of the sanitary authority to the proposed discharge.

In order to expedite the Agency's consideration of this waste licence application, I am to request your authority's consent to the proposed discharge/s. It should be noted that, your authority's consent may be subject to such conditions as your authority considers appropriate as provided for in Section 97 of the EPA Act, 1992. In this regard, please find attached a draft list of conditions, compiled by the Agency. Please refer to the accompanying information note, which contains the text of a series of typical general conditions, which the Agency may decide to impose in a waste licence. Additionally, the Agency may attach any further conditions it deems appropriate, in respect of the discharges concerned.

It will be appreciated if your response can be forwarded to the Agency within one month of the date of this letter, to facilitate the Agency in expediting the making of a proposed decision on the waste licence application.

Your co-operation in this matter is appreciated.

Yours sincerely

Karen Vaughey
Programme Officer
Waste Management Licensing

SANITARY AUTHORITY CONSENT CONDITIONS

re: SECTION 52 OF THE WASTE MANAGEMENT ACT, 1996

Name & Address of Sanitary Authority: **Laois County Council, County Hall, Portlaoise, County Laois, .**

Waste Reg. No. **184-1**

Waste Facility: **Atlas Environmental Ireland Limited, Clonminam Industrial Estate, Portlaoise, County Laois,**

Waste Licence Applicant: ***Atlas Environmental Ireland Limited***

The Sanitary Authority requires the conditions indicated by a 'Yes' in the right-hand column, below, to be included in any waste licence which the Agency may propose to grant, in respect of the above referenced waste licence application, in accordance with Section 52 of the Waste Management Act, 1996. Emission Limit Values and Frequency of Monitoring as part of this consent are specified in schedules A and B to the consent.

GENERAL CONSENT CONDITIONS	Condition to be included *(Yes/No)*
1. No specified discharge or emission to sewer shall exceed the emission limit value set out in the Schedule to this licence, entitled *Emissions to Sewer - Limit Values.* There shall be no other discharge or emission to sewer of environmental significance.	
2. Monitoring and analyses of each discharge or emission to sewer shall be carried out as specified in the Schedule to this licence, entitled *Emissions to Sewer - Frequency of Monitoring.*	
3. Monitoring and analytical equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge or emission.	
4. No substance shall be present in such concentrations as would constitute a danger to sewer maintenance personnel working in the sewerage system, or as would be damaging to the fabric of the sewer, or as would interfere with the biological functioning of a downstream wastewater treatment works.	
5. The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the discharge or emission, and to take samples of the discharge or emission.	
6. No discharge or emission to sewer shall take place which gives rise to any reaction within the sewer or to the liberation of by-products which may be of environmental significance.	
7. The licensee shall ensure that the discharge shall not contain dissolved methane, petroleum spirits or organic solvents (including chlorinated organic solvents), at concentrations which would give rise to flammable or explosive vapours in the sewer.	
8. Non-trade effluent wastewater (e.g. firewater, accidental spillage) which occurs on-site shall not be discharged to the sewer without the prior authorisation of the Sanitary Authority.	
9. The licensee shall provide and maintain an inspection chamber in a suitable position in connection with each pipe through which a discharge or emission is being made. Each such inspection chamber or manhole shall be constructed and maintained by the licensee so as to permit the taking of samples of the discharge or emission.	
10. The licensee shall submit monitoring results to the Sanitary Authority on a _____ basis ***(Sanitary Authority to specify frequency in right hand column).***	
11. The acute toxicity of the undiluted final effluent for discharge, to at least four aquatic species, from different trophic levels, shall be determined, by standardised and internationally accepted procedures and carried out by a competent laboratory. The name of the laboratory and the scope of testing to be undertaken shall be submitted, in writing, to the Agency, within three months of the date of grant of the waste licence. Once the testing laboratory and the scope of testing have been agreed by the Agency, the Agency shall decide when this testing is to be carried out and copies of all reports shall be submitted by the licensee to the Agency, within six weeks of completion of testing.	

GENERAL CONSENT CONDITIONS (Contd...)	Condition to be included *(Yes/No)*
12. Having identified the more sensitive species, subsequent compliance toxicity monitoring on the two most sensitive species shall be carried out by the laboratory identified in Condition 11 of this consent, as per Schedule B entitled *Emissions to Sewer - Frequency of Monitoring*. The Agency shall decide when this testing is to be carried out and copies of all reports shall be submitted by the licensee to the Agency within six weeks of completion of testing.	

ADDITIONAL GENERAL CONSENT CONDITIONS in respect of discharges or emissions to sewers, in accordance with Section 52 of the Waste Management Act, 1996 *(specify, if required)*

SCHEDULE A
of Sanitary Authority Consent per s52 of the Waste Management Act, 1996

Emissions to Sewer - Limit Values

Waste Licence Register No. **184-1**

Emission Point Reference No: _____ Emission to *(sewer description):*
_____

Volume to be emitted : Maximum in any one day : _____ m^3
Maximum rate per hour : _____ m^3

Parameter *(delete parameters which are not applicable)*	**Emission Limit Value**			**Parameter to be limited**
	Grab Sample (mg/l)	**Daily Mean Concentration (mg/l)**	**Daily Mean Loading (kg/day)**	*(Yes/No)*
BOD				
COD				
Ammoniacal nitrogen (NH_4- N)				
Suspended Solids				
Sulphates (as SO_4)				
pH				
Temperature				
ADDITIONAL PARAMETERS *(if required)*				

SCHEDULE B
of Sanitary Authority Consent per s52 of the Waste Management Act, 1996

Emissions to Sewer - Frequency of Monitoring

Waste Licence Register No. 184-1

Emission Point Reference No:_____

Parameter *(delete parameters which are not applicable)*	Monitoring Frequency	Sampling Method/Type *(grab, continuous)*
Flow to sewer		
BOD		
COD		
Ammoniacal nitrogen (NH_4- N)		
Suspended Solids		
Sulphates (as SO4)		
Temperature		
pH		
ADDITIONAL PARAMETERS *(if required)*		

SANITARY AUTHORITY CHARGES	
Charge per cubic metre of trade effluent or other matter (per s52 of the Waste Management Act, 1996)	
Payment Frequency	
Annual Monitoring Costs	

Signed on behalf of Laois County Council

_____ **Date:** _____

Information Note to Sanitary Authorities

The following are some typical general conditions, in respect of discharges to sewer, which the EPA may decide to include in any waste licence it may grant

(a) The licensee shall notify, in writing, the Sanitary Authority and the Agency, as soon as is practicable, and, in any event, not later than 10.00a.m. on the first working day following the occurrence of any one of the following incidents;

(i) any incident with the potential for environmental contamination of surface water or groundwater, or posing a threat to land, or a Sanitary Authority sewer or to personnel working in connection with a sewer, or requiring an emergency response by the local authority

(ii) any emission which relates to a discharge or emission to sewer which does not comply with the requirements of this licence.

(b) Emission limits, in this waste licence, for emissions to sewer shall be interpreted as follows:-

For Continuous Monitoring:

No flow value shall exceed the specified limit.

For Non-Continuous Monitoring:

No pH value shall deviate from the specified range.

No temperature value shall exceed the emission limit value.

For parameters other than pH, temperature and flow, eight out of ten consecutive results, calculated as daily mean concentration or mass emission values on the basis of flow proportional composite sampling, shall not exceed the emission limit value. No individual result similarly calculated shall exceed the emission limit value.

For parameters other than pH, temperature, and flow, no grab sample value shall exceed the emission limit value.

(c) The licensee shall provide safe and permanent access to the final effluent as discharged to sewer.

(d) All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on, unless alternative sampling or monitoring has been agreed, in writing, by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.

(e) The leachate and effluent treatment control equipment, including backup equipment, specified in this licence, shall be provided on-site. All treatment/abatement, control and monitoring equipment shall be calibrated and maintained at all times when in use, in accordance with the information submitted in the relevant Table of the waste licence application, or as otherwise approved by the Agency under the EMP associated with this licence.

No changes to the existing IPC license schedule are currently proposed. Air emissions from the boiler are monitored annually for SOx, NOx, particulates and combustion efficiency (see attachment B3-IPC Licence - Schedule 1(i)). The proposed sludge drying operations would involve air emissions from a boiler/engine to drive the drying process. This unit and associated emissions would replace the existing steam generating boiler currently operated on site and therefore this existing air emission would be made redundant. The licensed parameters would therefore remain unchanged except for the location of the emission point and possibly volume. Further technical details would be provided to the Agency for agreement prior to this change over.

See Attachment J4 (Boiler monitoring 2002, Air emission point table and Air emission characterisation)

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ATLAS

Sewer Discharge

Monitoring Programme specified	yes ☒	no ☐	not applicable ☐
Attachment included	yes ☒	no ☐	not applicable ☐

No changes to the existing discharge license are proposed. See attachment B3-IPC licence- Schedule 2(i).

J.6 Meteorological Data

Monitoring Programme specified	yes ☒	no ☐	not applicable ☐
Attachment included	yes ☒	no ☐	not applicable ☐

Currently wind direction, wind speed, temperature and rainfall are monitored and recorded at the site. This information is not reported to the agency but maintained on site for review as required.

J.7 Noise

Monitoring Programme specified	yes ☒	no ☐	not applicable ☐
Attachment included	yes ☒	no ☐	not applicable ☐

An annual noise survey is carried out at 5 noise monitoring locations as agreed under the IPC license. See attachment J7.

J.8 Odours

Monitoring Programme specified	yes ☐	no ☒	not applicable ☐
Attachment included	yes ☐	no ☐	not applicable ☐

No official complaints have been received in the last year. Recently one indirect complaint was received in relation to odour. The source of this odour has not been conclusively identified as no odour was noted within the Atlas facility. The situation is

RPS McHugh
PLANNING & ENVIRONMENT

Authorised for Release by: **Shane Herlihy** **Date: 25th January 2003**
Report Status: FINAL

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ENVIRONMENTAL IMPACT STATEMENT

PROPOSED WASTE RECOVERY & TRANSFER FACILITY EXPANSION AT ATLAS ENVIRONMENTAL IRELAND LTD. IN PORTLAOISE, Co. LAOIS.

PREPARED FOR
ATLAS ENVIRONMENTAL IRELAND LTD.

Our Ref.:	NE0501 / FINAL
Date:	25TH January 2003
Project Manager:	Tony Doyle Senior Environmental Consultant
Project Director:	Shane Herlihy Environmental Director.

7.0. WATER

7.1 Introduction

As part of the scope of the EIS, which has been agreed with the EPA, a section addressing water in relation to the proposed expansion is required to be included.

7.2 Methodology

This report was prepared in accordance with the recommendations of the EPA's "Guidelines on the information to be contained in Environmental Impact Statements, March 2002"

This assessment was based on a desk top study of publicly available information including a report entitled "Soil and Groundwater Investigation, Atlas Ireland Facility, Portlaoise", a document "A Risk Assessment To Determine If A Fire Water Retention Facility Is Required On Behalf Of: Atlas Environmental Ireland Limited", and data from weekly monitoring of the surface water discharge over a two year period (2000 to 2001)

7.3. Existing Conditions

7.3.1. Surface Water & Effluent Systems

7.3.1.1 Foul and Process Effluent

Process effluent consists of water removed from the waste oil processing system, and that collected from the soil remediation area. The aqueous effluent from the separation of oil is treated twice on a batch basis to remove as much oil as possible, before settling and then passing through separators before being pumped under controlled conditions through a monitoring station to a final process effluent drain. This drain joins the main industrial park foul sewer system to the west of the site, and then passes to the town municipal treatment system. The company has an IPC licence (Reg 472) which spells out emission limit values for the constituents of the wastewater.

The Limits are as follows:

Temperature	43°C (max.)
pH	6-8.5
Chemical Oxygen Demand (kg/day)	200
Suspended Solids	400 mg/l
Sulphates	500 mg/l
Chlorides	4000 mg/l
Total Phosphorus (as P)	50 mg/l
Ammonia	80 mg/l
Phenols (as C6H5OH)	50 mg/l
Copper	0.5 mg/l

Effluent Emission Limits – Contd.

Zinc	0.5 mg/l
Lead	0.5 mg/l
Cadmium	0.05 mg/l
Fats, Oils & Greases	300 mg/l

7.3.1.2 Surface Water Drainage

There are two surface water collection systems on the site.

In the first system, the main area of the site, i.e., the central and south areas of the site, surface water is collected by yard gullies and drains to a four chamber interceptor. In this unit, separation of traces of oil takes place and the oil free water is pumped under level control from a post separation pump chamber to a second interceptor located near the west border of the site.

In the second system, surface water from the north end of the site, i.e., around the new tank farm and the soil remediation area, is collected and fed to the second separator mentioned above.

The water from the interceptors leaves the site and passes to the municipal surface water system which eventually discharges to a local surfacewater stream.

7.3.2. Baseline Data

Atlas has proposed to the EPA, as required under their IPC licence, a warning level for OF&G of 10 mg/l and an action level of 15 mg/l. For COD, they are proposing 150mg/l and 250 mg/l respectively. It is not known what dilution of the surface water leaving the site will be before it reaches the river.

Information on the condition of sub-soil and groundwater is found in the Soil and Groundwater investigation report referenced above, and issues relating to soil, geology and groundwater are covered in more detail in section 6.

Based on the report, there does not seem to have been any serious contamination of the subsoil or groundwater.

The AER for the year 2000, submitted to the EPA, showed 99 percent compliance with the parameters of the limits set for discharge to the sewer over a series of 271 measurements.

Headquarters,
Johnstown Castle Estate,
County Wexford, Ireland

Integrated Pollution Control Licence

Licence Register Number:	472
Licensee:	Atlas Oil Laboratories Limited
Location of Activity:	Clonminam Industrial Estate, Portlaoise, County Laois

Schedule 1(i) Monitoring of Emissions to Atmosphere

Emission Point Reference No.: A-01

Parameter	Monitoring Frequency	Analysis Method/Technique
Sox	Annually	Flue gas analyser
Nox	Annually	Flue gas analyser
CO	Annually	Flue gas analyser
Combustion Efficiency	Annually	Flue gas analyser

Schedule 2(i) Emissions to Sewer

Emission Point Reference No.: FS1

Name of Receiving Sewer: Laois County Council Foul Sewer

Location : Yard to rear of Canteen

Volume to be emitted [Note 1]: *Maximum in any one day :* 40 m^3

Hourly discharge rates (m^3/hr):	*Average*	*Maximum*
0600 to 12 noon	1.25	1.25
12 noon to 1800	1.25	1.875
1800 to 0600	2.08	3.12

Parameter	Emission Limit Value	
Temperature	43°C (max.)	
PH	6-8.5	
Chemical Oxygen Demand (kg/day)	200	
	mg/l (Until July 1, 2001)	mg/l (From July 1, 2001)
Suspended Solids	400	400
Sulphates	500	500
Chlorides	4000	4000
Total Phosphorus (as P)	50	50
Ammonia	80	80
Phenols (as C_6H_5OH)	50	50
Copper	2	0.5
Zinc	6	0.5
Lead	2	0.5
Cadmium	0.15	0.05
Fats, Oils & Greases	300	300

Note 1: Subject to compliance with Condition 6.8 .

Table H.10: DETAILS OF DISCHARGES TO SEWER

(ONE TABLE PER EMISSION POINT)

Emission Point Ref. Nº:	FS1		
Name of emission point:	Laois County Council Foul Sewer		
Source of emission:	Aqueous effluent processed from oily liquids Surplus runoff from Soil remediation activities Eluate from sludge drying operations		
Location of sewer connection:	Adjacent to Atlas facility		
Grid Ref. (12 digit, 6E, 6N):	E246039 N197759		
Date of commencement:	Exact date unknown circa 1974 (IPC license commenced Dec 2000)		
Name of sewer undertaker:	Laois Co. Co.		
Periods of emission (avg.):	60 min/hr	15 hr/day	280 day/yr
Volume to be emitted:	Average/day:		40 m^3/d
	Maximum rate/hour:		3.12 m^3/h
	Maximum rate/day:		40 m^3/d
Name of receiving water:	Laois Co. Co foul sewer		
Flow rate in receiving water:	0.007 .....$m^3.sec^{-1}$ Dry Weather Flow ...not available.....$m^3.sec^{-1}$ 95%ile flow		
Available waste assimilative capacity: not available			**kg/day**