

Waste licence Application – Atlas Ireland

Attachment D1

Description of Site Infrastructure and associated site plans

Site Plan D1.

- Facility Security arrangements
- Facility roads
- Weighbridge
- Wheelwash (Truck wash)
- Fuel Storage areas
- Waste Quarantine Area
- Waste Inspection area
- Traffic Control
- Plant sheds, garages and equipment compound
- Facility accommodation

Site Plan D2

- All services
- Sewerage and surface water drainage infrastructure

Site Plan D3

- Fire Control system including water supply.

D.1 Infrastructure

D.1.a. Facility Security Arrangements.

The site is fully surrounded by a metal pallisade fence of 2.3m in height. All visitors are requested to report to reception and sign the visitor logbook. The security for the facility includes a 24-hour monitored alarm system and a closed circuit television system (CCTV). For a layout of the site security system see attached site layout **plan D1**.

In addition an automated access control system is currently being installed. This will involve the installation of security barriers on all the main vehicular entrances and exits and will also control pedestrian access points. The system will operate using a key fob to control entry and exit, all movements will be recorded electronically. All visitor and contractor access will be controlled through this system and enable a roll call in the event of an emergency site evacuation.

D.1.b. Design for facility roads.

Traffic enters the Industrial Estate from the main Portlaoise-Abbeyleix road (N7). The road leading into the Estate is a tarmac surface along which there are traffic islands to calm traffic flow. The maintenance of this road is the responsibility of Laois County Council.

Internal access roads are largely of concrete construction (200mm), some areas (truck parking) are unsealed stoned areas – no processing or storage of hazardous materials is carried out in these areas. All surface water runoff from roads drains through a surface water interceptor. See attached Site **plan D1** for layout of facility roads.

D.1.c Design of hard-standing areas

General hard standing areas on site are comprised of 35 Newton reinforced concrete (200mm depth). Areas used for waste storage have saw cut and sealed joints. Drainage for the hard standing areas can be seen in the attached site **plan D2**

D1.d. Weighbridge

There is one weighbridge used on site, it is an Avery Berkell pre-cast concrete in ground unit and was installed new in 2000. It has the following specification:

Table D1.d Weighbridge specification.

Capacity	50 tonnes
Dimensions	15metres
Calibration	Yearly
Installation	2000

Weigh bridge records are kept by the appropriate department (Soil/Garage services etc). The weighbridge is calibrated annually. Maintenance records of the weighbridge are maintained by the laboratory as per preventative maintenance schedule. Location of the weighbridge can be seen in the Site plan D1.

D.1.e. Truck-wash

There is no specific wheel wash system on site, however there is a truck wash facility which is on a constant recycle system (Diagram D. 1)

Trucks are washed over a silt trap, the water that runs off is discharged through an interceptor and is collected and recycled through an Atlas wastewater recycling unit allowing the clean water to be re-used for washing of vehicles. Top up water is supplied by a clean mains connection. (See attached Site plan D.1. for location of truck wash). Currently the truck wash recycling unit is also used to clean oily containers (i.e. drums, barrels etc). to remove excess residue. All oily washings are collected and contained in the recycling unit. It is proposed to segregate the washing of drums, barrels etc to a dedicated washing area as can be seen on site Plan D1.

D.1.f. Laboratory Facilities.

The analysis of a wide range of oils are carried out on site including testing of waste oils arriving on site, final product analysis, effluent analysis and soil extractions. The environmental lab is staffed by two lab technicians, which work on a day shift basis 8.30am to 5.00pm. All procedures are documented in the laboratory manual. The laboratory is located at the rear of the existing offices (See Site plan D1.).

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Table D1.f Laboratory Equipment

Item Description	Manufacturer	Model
Gas chromatographer fid/ecd detector	Varian	3800
Atomic Absorption	Varian	220
Hach	Hach	dr/2010
Hach reactor	Hach	45600
XRF	Asoma	200t
Muffle furnace	Carbolite	eaf 11/6
Karl Fischer	Mettler toledo	d118
Flash point tester	Stanhope seta	13661-0
Viscosity bath	Grant	n/a
Distillation apparatus oil	Stanhope seta	n/a
Smoke point apparatus	Stanhope seta	n/a
Micro hammer mill	Glen Creston	14-680
Ultra sonic bath	Ultrawave ltd	u175od
ph meter	Jenway	3320
Satorius balance	Satorius	bp221s
Centrifuge	Jouan	b4i
Electro mantle	Electrothermal	ema0500/ce
Oven	WTC binder	n/a
Vacuum pump	knf labort	n 810.3 ft18

D.1.g Fuel storage facilities. For a detailed schematic of the storage facilities on site (See Site plan D1.)

There are a number of fuels stored on site, which include 11 LS, 17 LS, distillate (DIS), Wet ship/Garage oil (W S/G), Waste Ship oil (W S), Filtered Ship/Garage oil (Fil S/G), Waste Ship effluent (W S/Eff). Emo oil also use tanks in the facility for storage of Diesel and Kerosene, which are also included on the site plan. All fuel/oil storage tanks are located within a bunded tank farm.

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Table D1g Tankage on site

Tank Numbers	Fuel	Capacity (litres)
1	DIS	54000
2	DIS	54000
3	DIS	54000
33	DIS	50000
34	DIS	50000
35	DIS	50000
4	11LS	108000
5	11LS	108000
6	11LS	140000
22	11LS	100000
23	11LS	108000
37	11LS	14000
11	WS/G	54000
12	WS/G	54000
13	WS/G	100000
14	WS/G	100000
15	WS/G	100000
16	WS/G	140000
26	WS/G	100000
10B	17LS	50000
36	17LS	50000
18	WS	906379
19	WS	906379
24	Fil S/G	100000
25	Fil S/G	100000
32	Fil S/G	100000
21	WS/EFF	50000
31	WS/EFF	50000
42	Emo	54000
43	Emo	54000
44	Emo	54000
45	Emo	54000
51	Emo	54000
52	Emo	54000
54	Emo	54000
55	Emo	54000
53	FD	50000
20	11LS	2254539
41	Ws/eff	50000
10a	17LS	50000

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W1	Effluent Discharge	54,000
W2	Effluent Discharge	54,000
W3	Wastewater	25,000
W4	Wastewater	25,000
W5	Wastewater	10,000
W6	Wastewater	10,000
A1	Acid	25,000
A2	Acid	25,000
A3	Acid	25,000
A4	Acid	25,000
R1	Tanksafe Resin (Amino based)	30,000
H1	Hardner (acidic)	10,000

D.1.h Waste Quarantine areas

Once waste arrives on site it must be inspected. An inspection of the waste may deem it unfit to be accepted until it is made secure and safe for handling. The quarantine area for such wastes on site will vary depending on the waste. Waste oil which is deemed unfit for processing will either be returned to the customer or alternatively will be pumped to segregation tanks 21, 31, 41 for further approved disposal. Acid, which is found to be unfit for acceptance will be stored in a sealed bunded area (Quarantine area C) as can be seen on site plan D1. Any segregated solvents, oily/hydrocarbon/grease waste which are deemed unfit for acceptance will be stored in Quarantine area A. (See Site plan D1). Remaining wastes that are to be quarantined will be stored in a designated area in Quarantine Area B.

D.1.i Waste Inspection areas

All liquid oily wastes will be inspected in the laboratory (See site plan D1) prior to acceptance, as per pre waste acceptance procedure. The existing waste accepted by Atlas, are inspected upon arrival at the site at the designated areas (See Site plan D1). Waste inspection area for alkalies/acids, batteries, fluorescent tubes/light bulbs, antifreeze/ Brakefluid, Solid/semi-solid oily/hydrocarbon wastes, windscreen washer, glass, tyres and WEEE will be via the weighbridge where a waste reception area will facilitate the inspection or sampling of wastes depending on the waste. All wastes will be accepted as per pre-approved waste acceptance procedure. Soil and Sludge will not be accepted for processing on site unless it has been pre-approved by an approved independent laboratory.

D.1.j Traffic Control

Traffic entering the site will be controlled by means of a barrier system, which will be incorporated into the security plan for the site. A one-way system operates to safely manage traffic flow and reduce congestion.

D.1.k All services.

The site is serviced with electricity, water, telephone, gas which can be seen on the attached Site layout **plan D2**.

D.1.l Sewage and surface water Drainage infrastructure

Surface water drainage is serviced by means of two on site interceptors. Both interceptors are class 1 (i.e. with coalescence filters) and are rated for surface water discharge. All surface water goes through these interceptors into an underground tank and then through a v-notch weir (ultrasonic flow measurement) before it is discharged off-site. The quality of discharge is managed by both daily visual inspections for the presence of oil and weekly analysis of COD, Fats, Oils and Greases. An auto sampler takes a flow proportional sample from the surface water discharge for analysis. For detail of the sewerage and surface water drainage Site **plan D2**.

D.1.m Plant sheds, garages and equipment compound

The main plant sheds consist of a new Boiler house, Workshop, Electrical room and the Store. The new boiler house was erected in November of 2001, the old boiler house is being converted to be used as a storage building/site laundry. The existing store is mainly used to store consumables and other non-waste materials. Existing buildings and Proposed developments can be seen on Site **plan D1**.

D.1.n Facility accommodation

The main office accommodation for the site (including laboratory) is located in a single building comprising of the new building (2002) and the older office block (c1978), which can be seen in the accompanying Site **Plan D.1**. Office facilities are also located in the Emo building adjacent to the Atlas facility. Facilities for office staff are located in the main office building and general welfare facilities are provided for remaining yard staff in the Emo building including toilets, locker facilities and canteen facilities.

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D1.o Fire Control system, including water supply.

The facilities on site for fire control include a water header tank (50,000 litres). There is also a ring main circling the site (Site plan D3) with 4 hydrants located at various locations. There are break glass units and fire extinguisher points located through out the plant on site. The level of fire protection for the office building is a full Level 1 system, the system in the yard is also to be upgraded to a level 1(L1) system within 2 years.

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Water Recycling System ATLAS Ireland Ltd.

