

LAPPC Application Form: to be completed by the operator		
For Local Authority use		
Application Reference:	Officer Reference:	Date received:

A1.1 Name of the installation

RIVERSIDE BUILDING SUPPLIES LTD

A1.2 Please give the address of the site of the installation

RIVERSIDE HOUSE, HALL ROAD

HEYBRIDGE, DALDON, ESSEX

Postcode CM9 4NF

Telephone 01621-859-679

Ordnance Survey national grid
reference 8 characters

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8	5	8
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0	7	8
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A1.3 Existing authorisations:

Please give details of any existing LAPPC or LA-IPPC authorisation for the installation, or any waste management licences or water discharge consents, including reference number(s) and type(s):

NONE

Please provide the information requested below about the "Operator", which means the person who it is proposed will have control over the installation in accordance with the permit (if granted)

A2.1 The Operator - Please provide the full name of company or corporate body

RIVERSIDE BUILDING SUPPLIES LTD

Trading/business name (if different)

Registered Office address

3 WARNERS MILL, SILKS WAY BRAINTREE ESSEX

Postcode: CM7 3GB

Principal Office address (if different)

RIVERSIDE HOUSE HALL ROAD, HEYBRIDGE

DALDON ESSEX

Postcode: CM9 4NF

Company registration number

4145156

A2.2 Holding Companies

Is the operator a subsidiary of a holding company within the meaning of Section 1159 of the Companies Act 2006?

No



Yes



name of ultimate holding company _____

Registered office address

Postcode

Principal Office address (if different)

Postcode

Company registration number: _____

A3.1 Who can we contact about your application?

It will help to have someone who we can contact directly with any questions about your application. The person you name should have the authority to act on behalf of the operator. This could be an agent or consultant rather than the operator.

Name DAVID POOLEY

Position COMPANY ACCOUNTANT

Address RIVERSIDE HOUSE HALL ROAD, HEYBRIDGE

DALDON ESSEX

Postcode CM9 4NF

Telephone number

01621 859 679

Fax number

01621 857 348

E. Mail address

dave@riversidebr.co.uk

B1.2 Why is the application being made?

- The installation is new.
- The installation is an existing installation that now requires a Permit.
- The installation is existing, but changes to the installation or to the EPR means that an LAPPC Part B permit is now required.

B.1.3 Site Maps

Please provide:-

* A suitable map showing the location of the installation clearly defining extent of the installations in red

Doc Reference GOOGLE MAP - APPENDIX 1

* A suitable plan showing the layout of activities on the site, including bulk storage of materials, waste storage areas and any external emission points to atmosphere

Doc Reference SITE MAP - APPENDIX 2

B2 The Installation

Please provide written information about the aspects of your installation listed below. We need this information to determine whether you will operate the installation in a way in which all the environmental requirements of the EPR are met.

- B2.1 Describe the proposed installation and activities and identify the foreseeable emissions to air from each stage of the process (this will include any foreseeable emissions during start up, shut down and any breakdown/abnormal operation)

The use of process flow diagrams may aid to simplify the operations

Doc Reference: PRODUCTION FLOW CHART

- B2.2 Once all foreseeable emissions have been identified in the proposed installation activities, each emission should be characterised (including odour) and quantified.

- **atmospheric emissions** should be categorised under the following
- (i) point source, (e.g. chimney / vent, identified by a number and detailed on a plan)
 - (ii) fugitive source (e.g. from stockpiles / storage areas).

If any monitoring has been undertaken please provide the details of emission concentrations and quantify in terms of mass emissions. If no monitoring has been undertaken please state this.

(Mass Emission - the quantification of an emission in terms of its physical mass per period of time. Eg. Grams per hour, tonnes per year)

B2.3 For each emission identified from the installations' activities describe the current and proposed technology and other techniques for preventing or, where that is not practicable reducing the emissions. If no techniques are currently used and the emission goes directly to the environment, without abatement or treatment this should be stated

Doc Reference: _____

B2.4 Describe the proposed systems to be used in the event of unintentional releases and their consequences. This must identify, assess and minimise the environmental risks and hazards, provide a risk-based assessment of any likely unintentional releases, including the use of historical evidence. If no assessments have been carried out please state.

Doc Reference: _____

B2.5 Describe the proposed measures for monitoring all identified emissions including any environmental monitoring, and the frequency, measurement methodology and evaluation procedure proposed. (e.g. particulate matter emissions, odour etc). Include the details of any monitoring which has been carried out which has not been requested in any other part of this application. If no monitoring is proposed for an emission please state the reason.

Doc Reference: _____

B2.6 Provide detailed procedures and policies of your proposed environmental management techniques, in relation to the installation activities described.

Doc Reference: ENVIRONMENTAL POLICY STATEMENT - APPENDIX 6

B3 Impact on the Environment

B3.1 Provide an assessment of the potential significant local environmental effects of the foreseeable emissions (for example, is there a history of complaints, is the installation in an air quality management area ?)

Doc Reference: _____

B3.2 Are there any sites of special scientific interest (SSSIs) or European Sites which are within either:

- 2 kilometres for an installation which includes Part B combustion, incineration (but not crematoria), iron and steel, and non-ferrous metal activities, or,
- 1 kilometre for Part B mineral activities and cement and lime activities, or,
- ½ a kilometre for all other Part B activities.

No

Yes please give names of the sites:

BLACKWATER ESTUARY

B3.3 Provide an assessment of whether the installation is likely to have a significant effect on such sites and, if it is, provide an assessment of the implications of the installation for that site, for the purposes of the Conservation (Natural Habitats etc) Regulations 1994 (see appendix 2 of Annex XVIII of the General Guidance Manual).

Doc Reference: _____

B4 Environmental Statements

B4.1 Has an environmental impact assessment been carried out under The Town and Country Planning (Environmental Impact Assessment)(England & Wales) Regulations 1999, or for any other reason with respect to the installation?

No

Yes *Please supply a copy of the environmental impact assessment and details of any decision made:*

Doc Reference: N/A

B5 Additional information

Please supply any additional information which you would like us to take account of in considering this application.

Doc Reference ANNUAL LEV COSHH SURVEY - APPENDIX 7

C1 Fees and Charges

The enclosed charging scheme leaflet gives details of how to calculate the application fee. Your application cannot be processed unless the application fee is correct and enclosed.

C1.1 Please state the amount enclosed as an application fee for this installation.

£. 1,579 Cheques should be made payable to: **Maldon District Council**

We will confirm receipt of this fee when we write to you acknowledging your application.

C1.2 Please give any company purchase order number or other reference you wish to be used in relation to this fee.

C2 Annual charges

If we grant you a permit, you will be required to pay an annual subsistence charge, failure to do so will result in revocation of your permit and you will not be able to operate your installation.

C2.1 Please provide details of the address you wish invoices to be sent to and details of someone we may contact about fees and charges within your finance section.

DAVID POOLEY RIVERSIDE BUILDING SUPPLIES LTD, RIVERSIDE

HOUSE, HALL ROAD HEYBRIDGE, DALDON, ESSEX

Postcode: CM9 4NF

Telephone: 01621 859-679

C3 Commercial confidentiality

C3.1 Is there any information in the application that you wish to justify being kept from the public register on the grounds of commercial confidentiality?

No

Yes

Please provide full justification, considering the definition of commercial confidentiality within the PPC regulations.

Doc Reference _____

C3.2 Is there any information in the application that you believe should be kept from the public register on the grounds of national security?

No

Yes

Do not write anything about this information on the form. Please provide full details on separate sheets, plus provide a copy of the application form to the Secretary of State for a Direction on the issue of National Security.

C4 Data Protection

The information you give will be used by the Local Authority to process your application. It will be placed on the relevant public register and used to monitor compliance with the permit conditions. We may also use and or disclose any of the information you give us in order to:

- consult with the public, public bodies and other organisations,
- carry out statistical analysis, research and development on environmental issues,
- provide public register information to enquirers,
- make sure you keep to the conditions of your permit and deal with any matters relating to your permit
- investigate possible breaches of environmental law and take any resulting action,
- prevent breaches of environmental law,
- offer you documents or services relating to environmental matters,
- respond to requests for information under the Freedom of Information Act 2000 and the Environmental Information Regulations 2004 (if the Data Protection Act allows),
- assess customer service satisfaction and improve our service.

We may pass on the information to agents/ representatives who we ask to do any of these things on our behalf. It is an offence under Regulation 38 of the EP Regulations, for the purpose of obtaining a permit (for yourself or anyone else) to:

- make a false statement which you know to be false or misleading in a material particular,
- recklessly make a statement which is false or misleading in a material particular.

If you make a false statement:

- we may prosecute you, and
- if you are convicted, you are liable to a fine or imprisonment (or both).

C5 Declaration: previous offences (delete whichever is not applicable)


I/We certify that:

EITHER

No offences have been committed in the previous five years which are relevant to my/our competence to operate this installation in accordance with the EP Regulations.

~~OR~~

~~The following offences have been committed in the previous five years which may be relevant to my/our competence to operating this installation in accordance with the Regulations:-~~

Signature 

Name NEVILLE BROWN

Position DIRECTOR

Date 12 TH JULY 2010


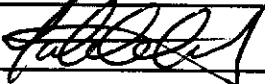
C6 Declaration

C6.1 Signature of current operator(s)*

I / We certify that the information in this application is correct. I / We apply for a permit in respect of the particulars described in this application (including supporting documentation) I / We have supplied.

Please note that each individual operator must sign the declaration themselves, even if an agent is acting on their behalf.

For the application from:

Installation name: RIVERSIDE BUILDING SUPPLIES LTD
Signature 
Name NEVILLE BROWN
Position DIRECTOR
Date 12 TH JULY 2010
Signature 
Name IAIN ARMSTRONG
Position DIRECTOR
Date 12 TH JULY 2010

* Where more than one person is defined as the operator, all should sign. Where a company or other body corporate – an authorised person should sign and provide evidence of authority from the board of the company or body corporate.

B2.0 The Installation

B2.1 The installation, activities & foreseeable emissions

Riverside Building Supplies Ltd is a timber merchant producing high quality door linings, decking, cladding, skirting and architrave in softwood, MDF & hardwood. We also carry large stocks of carcassing and joinery quality timber, sheet materials and are a stockist of Hardie-Plank cladding products.

The premises has can be broken down into the following :-

- Approx 25,000 sq ft workshop
- Approx 25,000 sq ft open storage yard
- Small office
- Trade Counter (attached to the office)

The workshop consists of a saw mill, a paint shop / preparation area and general storage areas as per the site map at appendix 2.

The Saw Mill contains a 6 head moulder, over/under planer, panel saw, band resaw, spindle moulder and cross cut saws. All of these items of machinery are connected to our dust / chippings extraction plant located in the timber yard.

The Paint shop contains a semi automatic paint line and a cross cut saw located in the preparation / assembly area.

Wood dust and chippings from the saw mill are passed through an air filtration unit and then collected in an articulated trailer linked to the extraction plant via flexible pipes. When full the trailer is removed and replaced by an empty one. The trailers are operated by a third party contractor who is licensed to remove timber waste.

All solid waste is processed through a timber crusher / shredder and is then fed automatically through ducting into the briquetter. This machine compresses the waste material into pork pie shaped briquettes which are stored in a large container from where they are manually transferred to the Talbott T500 clean wood fuel burner.

The heat generated by the burner has two purposes :-

1. To aid the drying of primed timber as it comes off the paint line.
2. To heat the saw mill and paint shop.

The sawdust and chippings generated by the cross cut saw in the paint shop preparation area are extracted directly into the briquetter.

Waste from the paint line is currently collected into 1,000 litre IBC tanks which are periodically treated by a licensed third party contractor, but we are in the process of applying for a trade effluent discharge licence from Anglian Water in order that we may process the waste internally and discharge it into the mains drainage system.

B2.1 Foreseeable emissions to air from each process

A process flow chart is attached and the foreseeable emissions to air from each process is shown below with a location plan at appendix 3.

Activities	Foreseeable emissions
1. Extraction plant	Particulate matter
2. Transfer to Articulated trailer	Particulate matter
3. Talbott T500 burner	Combustion products, smoke, odour
4. Saw Mill	Litter, chippings and particulate matter
5. Cross Cut Saw	Particulate matter
6. Briquetter	Particulate matter
7. Paint Line	Diluted water based paint

B2.2 Characterisation of emissions

The activities and their relevant foreseeable emissions to air are listed in table B2.1 above and are characterised as either point source or fugitive emissions thus :-

Foreseeable point source emissions to air are :-

Particulate matter, combustion products, smoke and odour from the Talbott T500 clean fuel burner.

Foreseeable fugitive emissions to air are :-

Particulate matter from the sawing, planing, cutting and chipping process carried out in the saw mill.

Particulate matter from the cross cut saw in the paint preparation area.

Particulate matter from the waste transport and storage system.

Litter etc. from the waste storage areas.

Fluid loss from the paint process and IBC storage tanks

B2.2 Quantification of emissions

As this is our initial application detailed monitoring of emissions has not been recorded. However, as a responsible organisation we have visually checked all of the above potential emissions at regular intervals and made changes to our processes as a result of those observations.

All of our plant and machinery is properly maintained by various third party specialists to ensure it is always in full and correct working order.

B2.3 Abatement technologies and techniques

Control of emissions from Talbott T500 burner.

The Talbott T500 biomass clean wood fuel burner was installed in November 2009 and is shown at number 3 on appendix 3.

It has a rated output of 150 kW and produces warm air through a ducting system to parts of the workshop.

Emissions of general combustion products are essentially unabated. However, the technologies and techniques employed to prevent, or where it is not possible, to reduce, the emissions and the impact on the environment as detailed in appendix 4. It should be pointed out that the installation qualified for a grant from Department of Energy & Climate Change.

Control of particulate matter from the extraction plant.

The extraction plant is self contained unit made from galvanised steel specifically designed to be placed outdoors.

It was commissioned from Fercell Engineering and has sufficient capacity to deal with the sawdust and chippings from all the machinery in the saw mill. It is subject to regular visual checks and has a thorough LEV COSHH assessment and examination every 12 months carried out by Fercell Engineering.

Control of particulate matter from Saw Mill.

All woodworking machines in the saw mill are connected to the dust extraction plant via ductwork to each of the cutting heads and, where appropriate, at ground level as well. This is a very efficient system but the very nature of a saw mill means that some dust ends up on the floor where it is either sucked up by the extraction plant or is swept up manually at weekly intervals.

Control of water based paint.

The timber / MDF paint line was designed and supplied by Universal Finishing Systems and is maintained by them on a bi-annual basis.

The waste is generated from the daily wash down and cleaning process and is stored in IBC tanks for later treatment. The risk of leakage from these tanks is negligible, however, they are stored away from site traffic activity to further minimise the risk.

Control of transfer to articulated trailer.

Particulate matter is transferred from the extraction plant into the sealed articulated trailer by way of reinforced flexible ducting. Additional ducting is kept in stock and is changed periodically if any and when damage occurs.

Packaging waste & Litter.

Packaging waste is stored in a partially covered 10.7 cubic metre container owned and operated by Biffa Waste Services Ltd under Section 34 of the Environment Protection Act 1990, the Environment Protection (Duty of Care) Regulations 1991 and the Controlled Waste Description and Transfer Note.

B2.4 Unintentional releases

The extent of the impact of an unintentional release of any known pollutant has been assessed against the items identified in the foreseeable emissions at point B2.1 above.

The environmental hazards and risks are assessed below :-

Foreseeable emissions	Environmental Hazard	Environmental Risk
Packaging Waste & Litter	Very localised emissions but has the potential to travel beyond site boundary	Very low
Extraction Plant	Localised emissions of dust, but has the potential to travel beyond site boundary	Very low
Transfer to Articulated trailer	Localised emissions of dust, but has the potential to travel beyond site boundary	Very low
Talbott T500 burner	Localised emissions of dust, combustion products, smoke and odour but has the potential to travel beyond the site boundary	Very low
Saw Mill & Cross cut saw	Localised emissions of dust, but has the potential to travel beyond site boundary	Very low
Briquetter	Localised emissions of dust, but has the potential to travel beyond site boundary	Very low
Paint Line	Localised emissions of paint and paint waste but has the potential to enter the drainage system	Very low

B2.5 Emissions monitoring

The monitoring and logging of emissions will be carried out on a daily and weekly basis by visual assessment as described in the Emission Monitoring sheet at appendix 5.

B2.6 Environment management techniques

Please refer to the "Environmental Policy Statement" at appendix 6.

B3. Impact on the Environment

B3.1 Assessment on the environment of foreseeable emissions

The possible effect on the environment through foreseeable emissions are summarised in the table below. It is considered that under normal circumstances there will be no significant effects on the local environment.

Activities	Foreseeable emissions
1. Extraction plant	Particulate matter
2. Transfer to Articulated trailer	Particulate matter
3. Talbott T500 burner	Combustion products, smoke, odour
4. Saw Mill	Litter, chippings and particulate matter
5. Cross Cut Saw	Particulate matter
6. Briquetter	Particulate matter
7. Paint Line	Diluted water based paint

B3.2 SSSIs or European Sites

The Blackwater Estuary, a site of special scientific interest (SSSI), lies within a two kilometre radius of the installation.

B3.3 Natural Habitats

It is considered that under normal circumstances there will be no significant effects on natural habitats.

B4 Environmental Statements

B4.1 Environmental Statements

No environmental impact assessment has been carried out under The Town & Country Planning (Environmental Impact Assessment)(England & Wales) Regulations 1999.

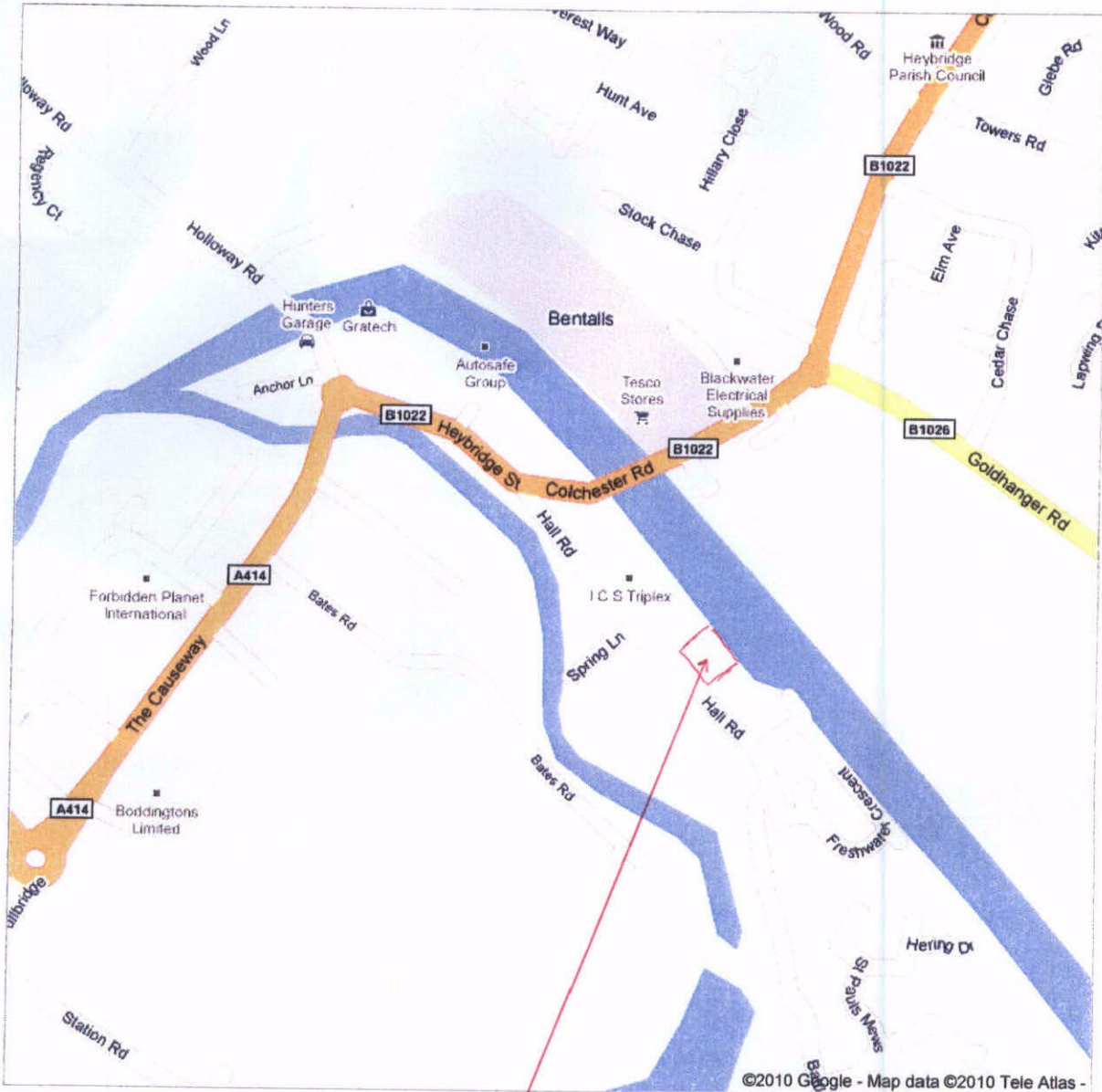
B5 Additional Information

Please refer to the annual LEV COSHH survey report at appendix 7.

Google maps UK

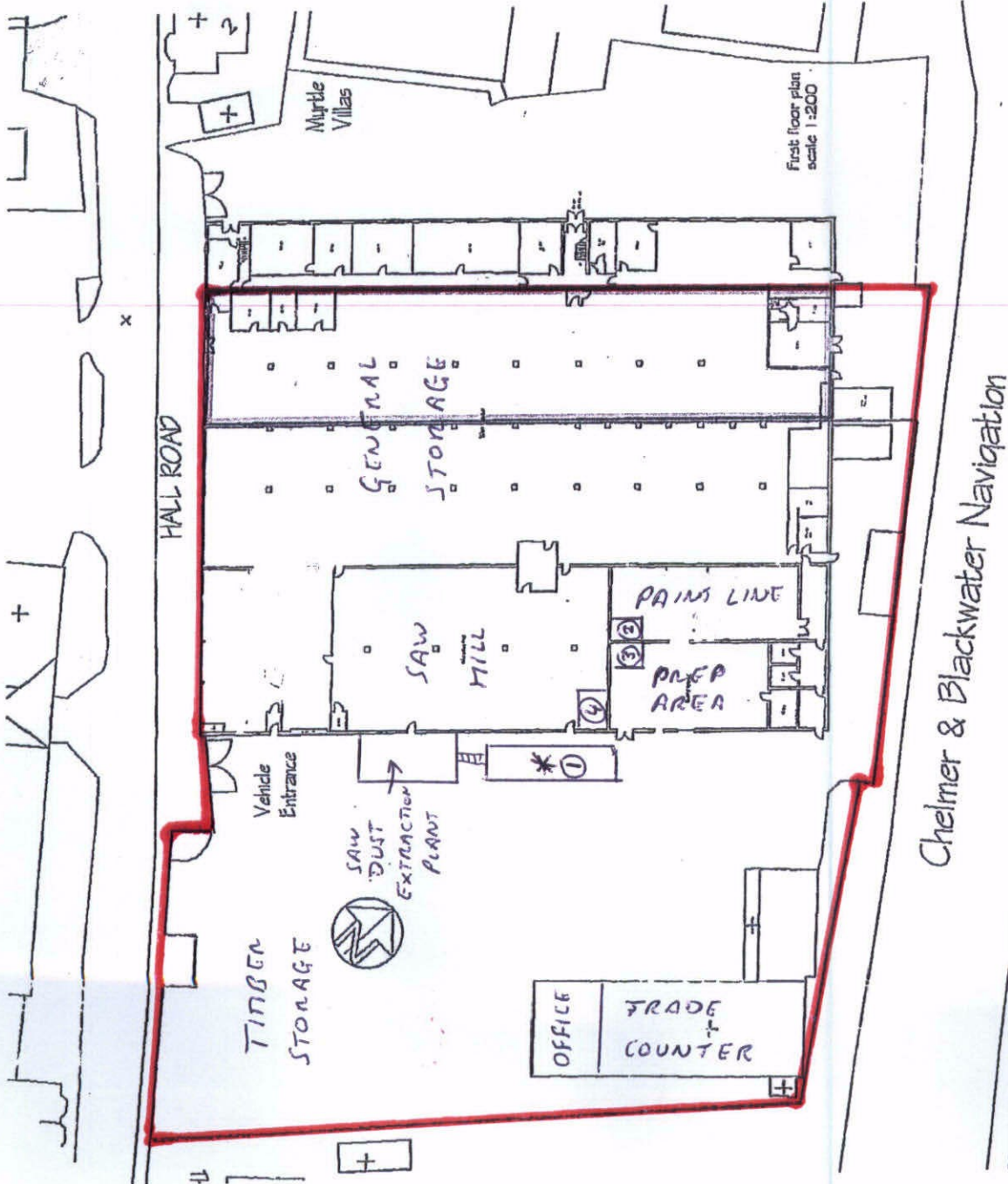
Address Maldon, Essex CM9 UK

APPENDIX 1

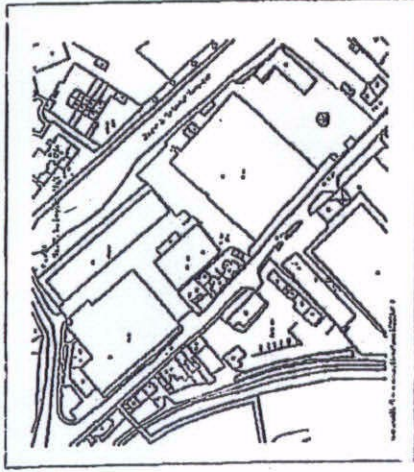


RIVERSIDE BUILDING SUPPLIES LTD

SITE MAP - APPENDIX 2



First floor plan
scale 1:200



Site plan
scale 1:1250

This drawing is to be used as a guide only. It is not intended to be used as a basis for any construction or other work. It is not to be used for any other purpose or for any other site.

DAVID CUNNINGHAM ASSOCIATES

Leeco Plans, 4 Hill Road, Heybridge, Essex
Tel: 0206 14250

Author	DA
Checked	DA
Date	July 05
Scale	1:200, 1:1250
Project No.	6191A/01

TIMBER CHAIRSNER/SHREDDER

Chelmer & Blackwater Navigation

*① CHIPPINGS & SAW DUST

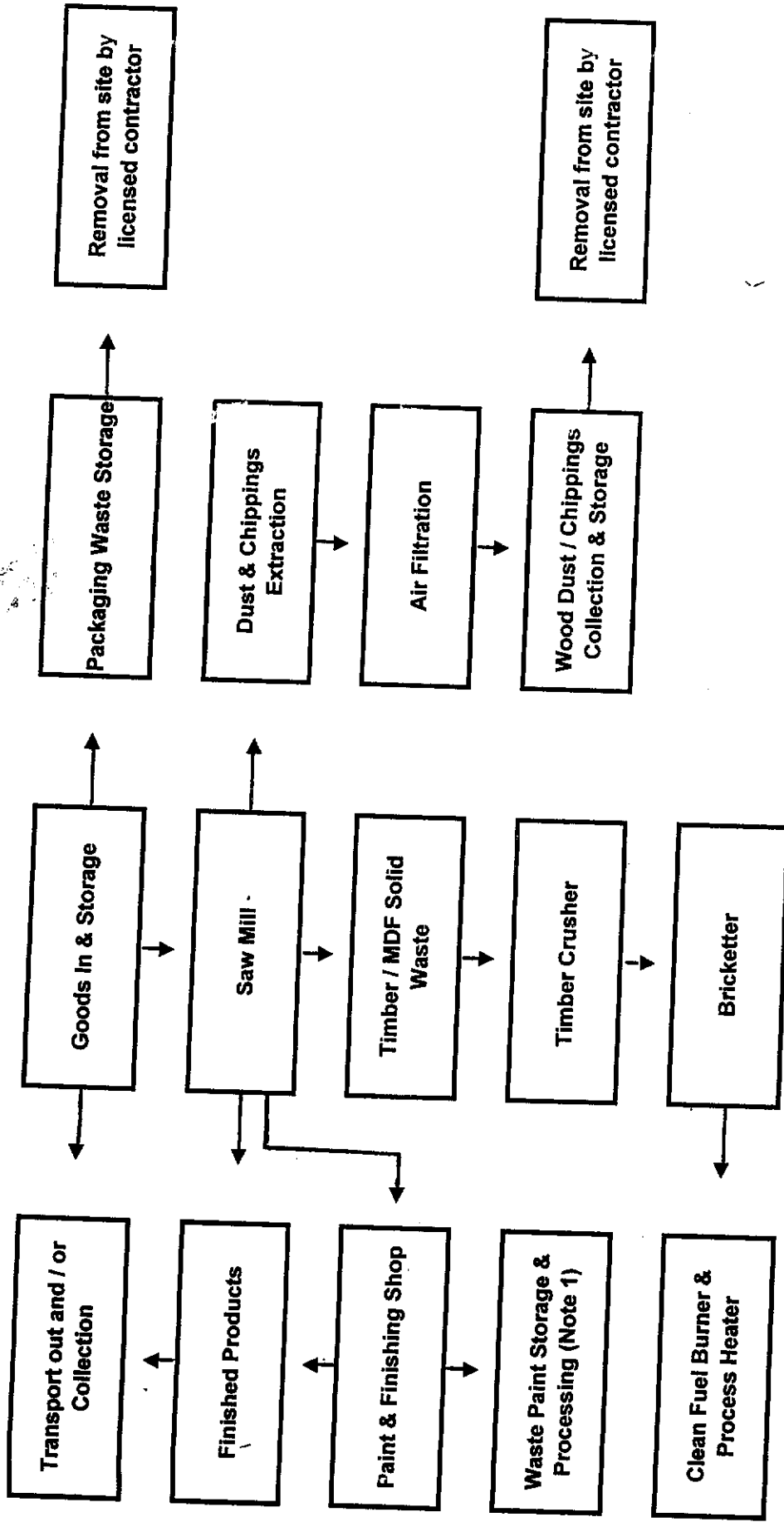
TRANSFERRED INTO RETRIEVABLE TRAILER

② CLEAN WOOD FUEL HEATER

③ AIR BRICKETS COOKING RANGE

Block plan
scale 1:200

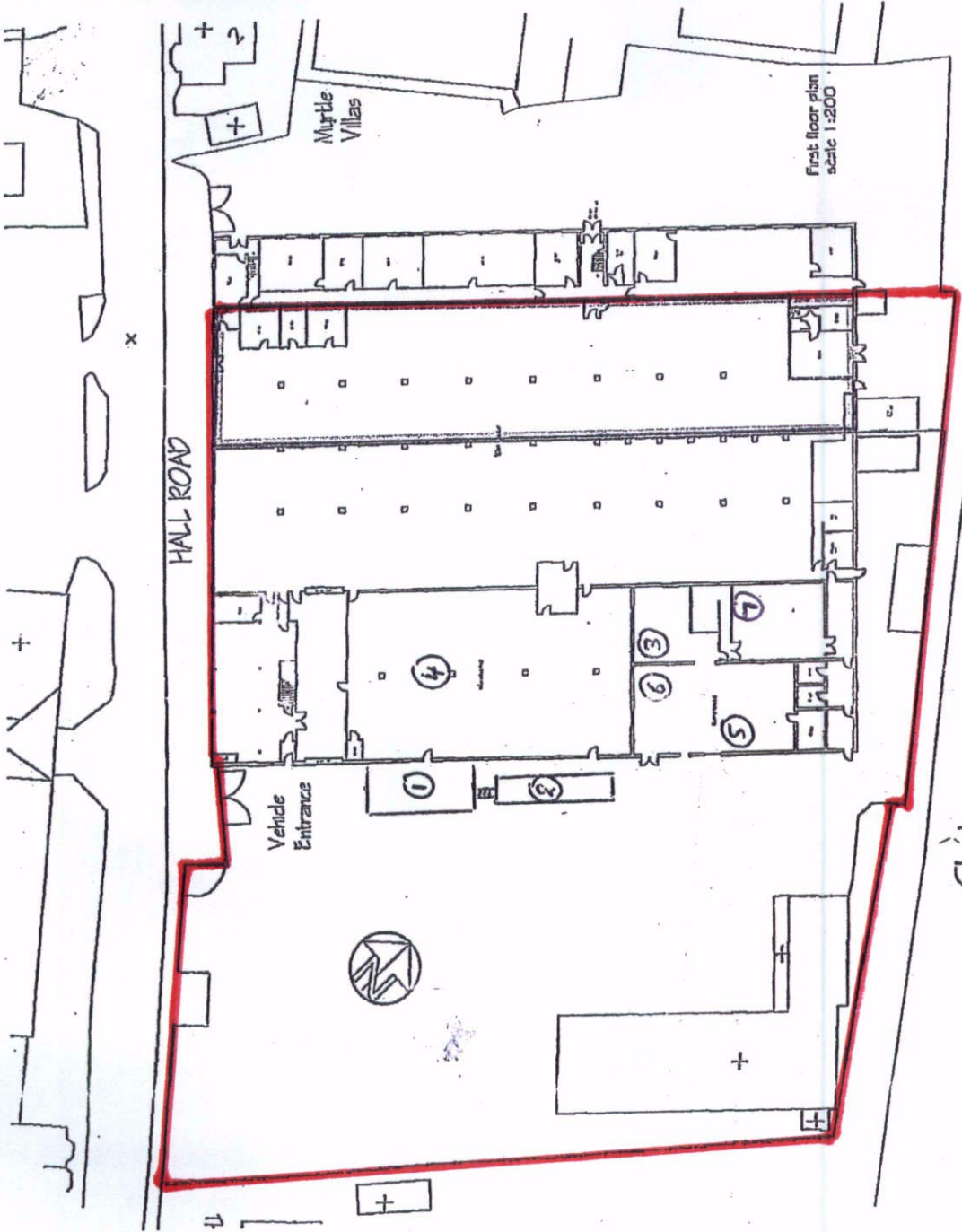
Riverside Building Supplies Ltd - Production Flow Chart



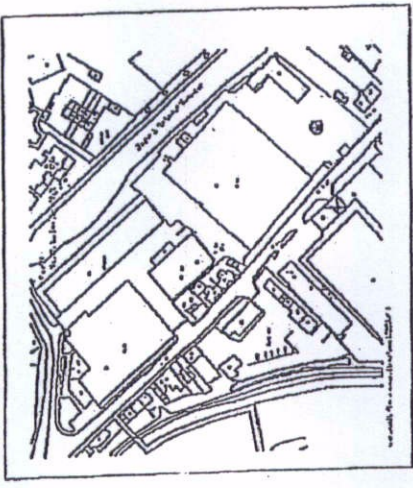
Note 1. Trade Effluent Discharge License applied for

FORESEEABLE EMISSION POINTS - APPENDIX 3

- ① EXTRACTION PLANT
- ② ARTICULATED TRAILER
- ③ TAIBOTTI T500 BURNER
- ④ SAW MILL
- ⑤ CROSS CUT SAW
- ⑥ BRICKETTER
- ⑦ PAINT LINE



First floor plan
scale 1:200



Site plan
scale 1:1250

DAVID CUNNINGHAM
ASSOCIATES

Client	DBI
Project	IBIC
Date	July 08
Project No.	1309, RT250
Rev No.	6191A/01

Site Plan and Site Plan.

Block plan
scale 1:200



Air Plants Dust Extraction Limited

Web page: www.airplants.co.uk
Email: enquiries@airplants.co.uk

Riverside Building Supplies
Hall Road
Heybridge
Essex
CM9 4NF

Q10149A

27th April 2009

For the Attention of Iain Armstrong

Dear Mr Armstrong

Thank you for your valuable enquiry for our comprehensive range of wood fuelled heaters. Following our meeting today we are pleased to present our revised proposals for the safe, clean and efficient combustion of your wood waste off cuts to provide localised heating.

Our understanding of your requirements is that you wish to deal with the green MDF and laminated chipboard off-cuts separately to the rest of your wood waste and burn it to provide warm air, which you wish to distribute over the top of the conveyor on your painting line.

This may be accomplished by isolating the chipper from the main extraction system and use it to chip all your wood waste, including the MDF and laminated chipboard, and then transfer the waste into a nearby briquetting press. The briquettes can then be fed into a manual burner, with the warm air ducted to above the conveyor on the paint line...

The green MDF and laminated chipboard off-cuts, along with other off-cuts will be chipped using your existing chipper (the existing 25mm screen will be replaced with a 12-15mm screen in order to make good briquettes), but the waste will now be transferred direct from the discharge point of the chipper to the holding hopper of a new briquetting press, via a blown transfer system. The briquettes can then be stored, or bagged up using a carousel, and fed into the T500 as and when required by the client.

Manual Burner

This proposal is based on the installation of a Talbott's T500 Hand-fed unit that will combust up to 1,500kgs per week of wood waste off-cuts. The heater has an output of 500,000 Btu (150kW) and will provide warm air space heating for up to 10,000ft².

The Talbotts T Range has been in production for almost 30 years with over 4500 units operating throughout the world. Our policy of continual product development ensures that

For conditions of sale see attached sheet

Head Office: 295 Aylestone Road Leicester LE2 7QJ Tel 0116 - 2833 581 Fax: 0116 - 283 7311

Also Canal Ironworks, Brimscombe, Nr.Stroud, Gloucester GL5 2SH. Tel 01453 882 109 Fax 01453 883 832

Air Plants Dust Extraction Limited, Registered office: 295 Aylestone Road Leicester LE2 7PB, Registered in England No. 3292598

Directors: J.G. Smith, B.Sc.(Eng.) Chairman, P.C. Fletcher, Vice Chairman, C.J. Smith, BSc., C Eng. M.I.E.E., J. Wilkinson
FCMA

Associate Directors: T.P. Farren, M.W. Johnson, G. Cole.

A Member of SMITH BROTHERS (LEICESTER) LIMITED GROUP

[Handwritten signature and scribbles]

the T500 remains the woodworking industry's number one choice of wood waste heating system.

We anticipate that the burner will be located in the area of the factory which houses the paint line. The warm air will be ducted across to and terminate above the conveyor, to assist in drying the newly painted items, with a branch line running to and terminating above the drying storage area. There will also be a branch duct run into the mill, with a shut off damper fitted, to allow some of the heat to be diverted. A summer/winter divert is also installed and will allow the warm air to be discharged to outside the building if required.

Case Study

The wealth of experience and knowledge that Talbott's have gained over 30 years and the relationships developed within the Woodworking industry was recently demonstrated by the installation of two brand new T500 units at Minera Roof Trusses. As a forerunner in the timber housing market, Minera have maximised the use of their wood waste through the operation of two Talbotts T500 500,000 BTU/150kW Hot Air Systems. Since Talbott's first installation way back in 1979 and a second in 1986, Minera have been able to heat their Wrexham factory in one of the most cost effective manners possible. Roy Meacock of Minera commented:

"Having used Talbott's since our first installation 30 years ago, the quality and low maintenance of the systems meant that it was only natural for us to invest into two new models. I feel this not only reflects the progression of our companies, but the partnership as well"

WE HAVE OUTLINED BELOW THE SPECIFICATIONS AND COST SUMMARY BELOW.

TALBOTT T500 HAND FIRED HEATER

- 550 x 550mm² Induced Draft, Air Cooled Loading Door
- Ash Pan Door
- Removable Ash Pan
- Ceramic Lined Combustion Zone
- 30mm Thick Steel Grates
- Secondary Air Combustion Tube
- Secondary Air Combustion Fan
- Double Pass Horizontal Heat Exchange
- Combustion Zone and Heat Exchange are Finned to increase surface area giving optimal efficiency and life span
- 300mm Flue Spigot
- Ceramic Lined Afterburner Box
- Box Section Frame Work
- Insulated Removable Side, Front and Back Panels
- Steel Floor Plate and 6x Floor Mounted Feet
- 8500m³/hour Heat Distribution Fan
- 2.2kW Drive Motor and Belt Drive Assembly
- Grill Protected Return Air Inlet and Removable Cover
- Air Thermostat to Control Blower Fan, to be set at desired air temperature
- 20 Amp 3 Phase and Neutral Isolator
- All Trims Covers and Access Hatches
- Air Distribution Heads or Ducting Connection Spigot 560Ø (please specify requirement)

- All Electrical Wiring
- All Prepared, Degreased and Finished in "Hammerite" Green and Black
- All Cleaning Tools Required
- On Unit Instruction Labels and Full Technical Manual and Maintenance Check List

THE FLUE SYSTEM

- 316 grade Single Skin Stainless Steel Flue
- 10" Ø
- All Supports & all necessary parts & fixings

THE HEAT DISTRIBUTION SYSTEM

- Ducting, bends and discharge terminals
- 560Ø
- Galvanised mild Steel
- All Supports & all necessary parts & fixings

Briquetting Machine

This proposal is based upon the use of one of our BP briquetting presses. The machine will be located in one corner of your building, the other side of the wall from the existing chipper. This machine is particularly robust and is ready to meet all industrial requirements for briquetting wood dust, shavings, MDF and chipboard.

THE BRIQUETTING SYSTEM

- BP5/7 briquetting press
- Briquette diameter: Approx. 50 mm
- Output: Approx. 70-100 kg/h (depending on material)
- Motor power: 7.5 kW, 400 V - 50 Hz - 3 ph
- Control panel: Electronic controlled by PLC
- Hydraulic drive: With approx. 140 litres hydraulic oil
- Combination switch (oil temperature and filling messenger)
- Automatic end position of all cylinders
- Automatic rope length control and shut down
- Chromium-plated pliers
- Funnel with settlement gearbox
- Transport auger with gearbox-motor and snail-channel
- Silo dimension approx. 1400 x 1400 mm
- Extension for transport pipe
- CE-concurring
- Flexible screw conveyor with 1.5kW geared motor

Chip Transfer System

The chipped material will be constantly removed from the outlet of the existing chipper and ducted away to a dust unit with 4kW integral fan, located above the storage hopper of the briquetting machine. The collected chippings will fall into a hopper and discharge under gravity into the briquetting machine via a rotary airlock. The air will be filtered out of the dust unit via two large diameter polyester needlefelt filter socks.

This method of chip transfer leaves the storage hopper of the briquetting machine open and available to hand feed bagged shavings into if the client wishes.

Installation

The T500 units are factory commissioned and just need to be positioned and a 20 amp 3-phase supply fitting to our control panel. The flue comes in 1m sections along with locking bands and simply connects together. The flue can be supplied with 2 x 45 degree bends and taken out of a side wall and bracketed to the exterior of the building or simply exit the building vertically through the roof terminating 1m above the roofs highest point.

The briquetting press needs to be positioned and a 20 amp 3-phase supply fitting to our control panel.

The blown transfer system will be fully mechanically installed and comes complete with a starter box to run the fan and the rotary airlock. The box needs to be positioned and a 16 amp 3-phase supply fitting to our control panel.

Please Note! The chipper will need to have a new screen fitted in order to make briquettes. We will source and fit the new 12-15mm screen as part of our supply.

COST SUMMARY

Talbott's T500 Hand-fed Warm Air Heater, distribution ducting and Flue (6m)

BP5/7 briquetting press and blown chip transfer system

TOTAL

Optional Carousel

Should you wish to automatically bag up your briquettes then the optional carousel automatic bagging station offered will allow plastic sacks of varying heights to be used. The controller allows easy programming to automatically count the briquettes into each bag. When a bag is filled the carousel will automatically index to the next bag station.

TOTAL

Financial Assistance

Talbott's have been working with the Carbon Trust for a number of years where they offer interest free loans for the purchase of "energy efficient" products to assist with reducing carbon emissions. They have our own dedicated funding co-coordinator whom can be contacted directly at Talbott's headquarters or through email at andrew.clark@talbotts.co.uk. Please do not hesitate to contact him if you may be interested in this option. Andrew will help assess whether you qualify for a 0% finance option for the installation of our equipment paid over a maximum 4-year term.

In addition we have been made aware of a substantial grant that you would qualify for. The expected grant would be for approximately 30% of the capital cost of the contract. However, we understand that this grant is only available for successful candidates up until the end of April 2009.

Where companies are ineligible for such a scheme such as the carbon trust offer, we also work with a number of competitive finance companies that will be able to offer you great rates. Please contact our office for more details.

Record sheet for Week Commencing :-

Day	When	Talbot T50 Burrer		Dust / Chippings Extraction		Crusher / Bricketter		Paint Shop Waste		Checked By	
		Smoke	Odour	Yard	Mill	Filter	Trailer	Mill	P/Shop		Floors
Monday	Start-up										
	Mid-Morning										
	Mid-Afternoon										
Tuesday	Start-up										
	Mid-Morning										
	Mid-Afternoon										
Wednesday	Start-up										
	Mid-Morning										
	Mid-Afternoon										
Thursday	Start-up										
	Mid-Morning										
	Mid-Afternoon										
Friday	Start-up										
	Mid-Morning										
	Mid-Afternoon										
Saturday	Start-up										
	Mid-Morning										
	Mid-Afternoon										
Sunday	Start-up										
	Mid-Morning										
	Mid-Afternoon										

Weekly Checks	Checked By	Comments
Talbot T50		Clean out Ashpan and Dust from Heat Exchanger
Extraction		Visual check of Filter
		Visual check of Trailer
		Site check for system leaks

Riverside Building Supplies Ltd

Environmental Policy Statement

Issue 2 March 2010

Contents

1. Introduction
2. Company Aims & Objectives
3. Area Specifics
 - a) Company Premises
 - b) Vehicle Fleet
 - c) Waste
 - d) Location

1. Introduction

This document sets out the ideas and practices of the management of Riverside Building Supplies Ltd with regard to its operational effect on the environment. It has been drawn up after careful consideration and in consultation with third party specialist to achieve the maximum impact but at the same time to be within a reasonable budget.

2. Company Aims & Objectives

When looking at doing something positive about the environment, our overall objective was to minimise our carbon footprint and to reduce the impact our operations have on the environment.

We looked at ways in which we could improve our working practices, and targeted 4 specific areas that we believe could have a positive effect.

We did most of our research via the Internet and in discussion with our employees. When we identified areas that could be improved, we sought expert advice where applicable.

We constantly monitor the effect that our business has on the environment and are always open to ideas from within and externally to make further improvements.

3. Area Specifics

a) Company Premises

The buildings we currently occupy are leased and were constructed in the 1960's with later additions, which means that we are limited to what we can do in the short term. However, in the longer term, we are looking to either purchase the property after which we can set about making significant improvements to our operation and its effects upon our environment or alternatively purchase land and construct suitable premises in the locality.

Even so, during 2009 and with the aid of a Bio-Energy Capital Grant from the Department of Energy and Climate Change, we have installed a clean wood burner which is helping both the environment and our business.

The clean wood burner replaced diesel powered heaters in our timber priming plant. The heater burns the waste that we produce from our saw mill in the form of compressed timber briquettes. This is an extremely efficient solution to two problems, namely the costly and inefficient use of diesel fuelled warm air burners and the removal of waste from the premises.

The clean wood burner also heats the saw mill, replacing all previous forms of heating.

It is our intention to continue to manufacture timber briquettes throughout the year and those that are not required for our own purposes will be available to purchase.

b) Vehicle Fleet

It is company policy to ensure that our fleet of goods vehicles are as modern as we can afford and that they are regularly inspected and maintained to the highest standards.

All drivers are encouraged and expected to carry out regular safety checks and to complete daily vehicle check and defect forms to enable us to ensure the fleet is operating as efficiently as possible and thereby reducing our carbon footprint.

Management maintains close control over fleet operations to ensure that

- 1) The appropriate vehicle is allocated for each load**
- 2) The best route is selected by reference to on-line traffic information**
- 3) Where ever possible we collect our own materials from our suppliers and incorporate this activity into our normal delivery schedules thus ensuring the vehicles do not always return empty.**

c) Waste

The business generates in excess of 95% of its waste from two sources.

1. Cuttings, sawdust and chippings from the saw mill.

All waste from our saw mill operation is recycled.

Waste generated from our saw mill is separated into two types and is collected in different vessels.

All timber sawdust and shavings are removed from the saw mill via a dust extraction plant. This waste is collected and recycled by a local business.

All waste timber and MDF is processed through a timber crusher and converted into briquettes which are then either burned in the clean air burner or offered for sale dependant upon need. The warm air generated by the clean air burner is used in our priming plant to aid drying.

2. Paint residue from our priming plant.

We have recently invested in a hydro clean waste water treatment plant that will allow us to separate the two waste components generated from our priming plant, namely contaminated water and paint solids. The water is cleaned and separated from the paint residue. The water is returned to the surface drains whilst the paint solids are collected in containers for later removal.

This process is scheduled to be commissioned and running by the middle part of 2010.

d) Location

As our company name suggests, our business is located close to a river, or to be more precise, a canal.

We are acutely aware of our responsibilities of ensuring that no waste or contaminants from our business processes enter the water course adjacent to our premises.

Our location is always the first thing to be considered when planning any change in activities or processes and, if necessary, we consult with the local authority and environment agency to ensure good working practices are adopted and maintained.

FERCELL

THE POLLUTION CONTROL ENGINEERS



REPORT OF PERIODIC/THOROUGH EXAMINATION AND TEST OF LEV PLANT

GENERAL DETAILS

Report No. 7539

Company: Riverside Building Supplies Limited
Address: Riverside House, Hall Road, Heybridge, Maldon
Essex CM9 4NF
Contact: Mr Iain Armstrong
Position: Director

PLANT DETAILS

Description: Extracting waste via a fixed and flexible ducting system via a transporter fan discharge into waste trailer
Location: In yard, along side wall, adjacent to fire exit
Last service date: Unknown
Plant condition: Fair

Type: Multi Breather Rotary Discharge Filter Unit
Make: Fercell Engineering Ltd
Model: 2HLFD/EX
Serial No. 204-011R
D.O.M 2006

Filter medium:	Cotton	Filter monitoring:	
Filter type:	Plate Top, Spring Bottom	Monitor type:	N/A
Filter number:	56	Monitor make:	N/A
Filter dimension:	3000 x 220mm diam.	Monitor model:	N/A
Filter area	N/A	Monitor cond.	N/A
Filter cleaning:	Two Regen Fans		
Filter condition:	Poor		

Discharge type: Rotary Valve
Discharge make: JKF
Discharge model: 140
Discharge cond. Good

Explosion relief: Two Steel Panels
Model: Unknown

FAN DETAILS

Type:		Drive Type:	Direct
Make:		Motor kW:	18.5
Model:	MVS/HR25	Motor supply:	415
Fan speed:	1,500 rpm	Motor speed:	1,500 rpm
Serial No.	MVS/HR/127	Rotation:	anti clockwise
Fan condition:	Fair		

(F1) Fan Inlet ø:	450	mm	(F2) Fan outlet ø:	475mm
Volume:	12,363	m ³ /h	Volume:	10,142 m ³ /h
Velocity:	21.60	m/s	Velocity:	159 m/s
(Sp) pressure:	1669	Pa	(Sp) pressure:	520
(Pv) pressure:	278	Pa	(Pv) pressure:	148 pa

FERCELL

THE POLLUTION CONTROL ENGINEERS



REPORT OF PERIODIC/THOROUGH EXAMINATION AND TEST OF LEV PLANT SCHEDULE OF SURVEY

Survey by: John Webb Frequency: 12 Months
Examination type: LEV
Last survey date: 28th October 2008 Next survey date: 17th Dec 2010

I certify that, on the above stated survey date, I examined and tested the LEV plant detailed within, in accordance with regulation 9 of the COSHH (2002) regulations.

Signature:

Print: John Webb

FILTER PLANT RESULTS

INLET

Dimension: 475 mm
Velocity: 15.90 m/s
(Sp) pressure: 520 Pa
(Pv) pressure: 148 Pa

EXHAUST

Dimension: N/A
Velocity: m/s
(Sp) pressure: Pa
(Pv) pressure: Pa

FILTER

(Sp) pressure: 561 Pa

ACROSS FILTER

(Sp) pressure: 129 Pa

Filtered air exhausted:

Contaminant concentration: 0.187

Air monitoring: N/A

ASSOCIATED REPORTS (for completion by client, all details and dates of reports to be recorded)

REPORT OF PERIODIC/THOROUGH EXAMINATION AND TEST OF LEV PLANT

SYSTEM RESULTS

Machine make/model/type	LEV	ø	Valve	Sp (Pa)	Pv (Pa)	Velocity (m/s)	Volume (m ³ /h)	Remarks
Leadermac LMC-624H - Moulder	1A	150	Yes	-511	158	16.9	1070	A
	1B	150	Yes	-506	142	15.8	1001	A
	1C	150	Yes	N/A	N/A	N/A	N/A	Blanked Off - A
	1D	150	Yes	-1148	470	28.6	1812	A
	1E	150	Yes	-861	319	22.7	1438	A
	1F	150	Yes	-842	267	21.4	1355	A
	1G	325	Yes	-1460	297	26.5	7956	A
Maggi 640 - Cross Cut	2	100	Yes	-1262	341	22.8	640	A
Samco - Spindle Moulder	3	150	Yes	-1153	316	21.6	1368	A
Magic - Dimension Saw	4A	80 to 40	No	-1178	1270	45.1	405	A
	4B	120	Yes	-1086	162	15.8	642	A
Dominion - Planer	5	150	Yes	-1175	196	18.4	1165	A
ACM - ReSaw	6A	100	Yes	-984	311	28.6	803	C
	6B	150	Yes	-842	309	22.60	1431	A

SYSTEMS REMARKS

- A None, all in good condition
- B Damage to solid duct, requires repair/replacing.
- C Damage to flexible duct, requires replacment.
- D Blockage in duct, requires removal.
- E Blockage in hood, requires removal.

REPORT OF PERIODIC/THOROUGH EXAMINATION AND TEST OF LEV PLANT

TEST METHODS

Smoke generator	N/A
Anemometer (hot wire)	N/A
Micro-manometer	Yes
Anemometer (rotating vane)	N/A
Laser particle analyser	Yes
Tindle lamp	N/A

SUMMARY AND RECOMMENDATIONS

PLANT STATUS:

Are hazardous substance effectively extracted at each point? Yes

Are hazardous substance effectively conveyed to filter/exhaust? Yes

Initial results available? Yes

Are current results comparable with previous reports? Yes

Are all elements of system in good working order? Yes

Are there any leaks in the system? No

OBSERVATIONS

At time of survey, the system was found to be working well.
The dust emission levels were within the legal limit of 5mgs/cu mtr.
However, the filters were found to be heavily soiled and no earth tags fitted to system.

RECOMMENDATIONS

Change the filters.
Fit earth tags.