Roadrunner Waste Limited

Recycling Centre

Working Plan

Version 2.0 8 February 2000

Oaktree Environmental

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CONTENTS:

AGREED
JPC 26/5/00

Appendices:

Appendix I - Drawings:

Drawing No. RW/01	-	Site Location Map (1:25,000)
Drawing No. RW/02	-	Transfer Building Layout
Drawing No. RW/03	-	Transfer Building Cross Section
Drawing No. 2.1.P	-	Site Layout Plan

Appendix II - Record Keeping Forms

RW/RF/1 - Waste Input Record Form

RW/RF/2 - Rejected Waste

RW/RF/3 - Waste Output/Recycled Waste Form

RW/RF/4 - Site Inspection Form

Appendix III - Waste types

Appendix IV - Health and Safety - Conditions of site use for staff and visitors

Appendix V - Emergency Procedures

1.0 General
2.0 Fire
3.0 Spillages
4.0 Drums
5.0 Adverse reactions
6.0 High winds
7.0 Poor visibility
8.0 Operational failure
9.0 Overturned vehicle
10.0 Bomb scare

Appendix VI - Exempt Activities

AGREED
JPE 26/5/00

1.0 GENERAL CONSIDERATIONS

1.1 Site operator/licence holder

1.1.1 Roadrunner Waste Limited will hold the waste management licence and operate the recycling centre at Boot End, receiving waste from G T Roberts & Son Limited and other carriers from the Flintshire, Denbighshire and other local counties.

1.1.2 Recent developments in legislation such as the introduction of the landfill tax have increased the effectiveness and scope of operations for waste transfer and recycling centres, permitting greater recovery rates for recyclable waste. The purpose of the new recycling centre is to allow the further sorting and storage of building and demolition waste to recycle, recover or re-use up to 95% of waste sourced from construction sites. The proposed recycling operations include sorting and screening construction, demolition and excavation waste to produce building materials, topsoil, hardcore, aggregate replacements and other products which reduce the need to use virgin building materials.

1.1.3 The company's head office is situated at the following address:

Roadrunner Waste Limited
Cambrian View
Rhuallt
St. Asaph
Denbighshire
LL17 0TD

Tel: 01745-584530
Fax: 01745-584530

The company's directors are Dewi Roberts and Amanda Griffiths.

1.1.4 Oaktree Environmental have been employed to act as consultants for Roadrunner Waste Limited, to assist in the preparation of this working plan and to submit an application for a waste management licence. This working plan has been prepared to meet the requirements of Waste Management Paper No.4 - Licensing of Waste Management Facilities. The document provides information to the Environment Agency to enable it to set licence conditions and gives instructions to staff specifying how the site is managed.

Contact details for Oaktree Environmental are as follows:

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JPE 26/5/00

1.2 Site history and planning status

1.2.1 The site is located on land at the Dee Bank Industrial Estate, Boot End, Bagillt (National Grid Reference [NGR] SJ 214.760]) as shown on Drawing Nos. RW/01 and 2.1.P. The land is owned (freehold) by Amanda Jane Griffiths who is also a Director of Roadrunner Waste Limited. A portion of the land which is the subject of the waste management licence application is owned by Mr R Thomas and will be sold to Roadrunner Waste Limited or one of its Directors in March/April1999.

1.2.2 The surrounding land use is primarily industrial. Residential development is within 250 metres of the site, beyond the A548. Neighbouring businesses uses include a concrete batching plant, crushing plant maintenance workshop and petrol filling station.

1.2.3 The site has the benefit of a valid planning consent issued by Flintshire County Council on 6 January 1998 (ref: P/97/13/00990). The site will be developed in accordance with this permission. An application to permit external storage of waste and product in bays is currently being considered by Flintshire County Council.

1.3 Licence area/waste management operations

1.3.1 The area which is the subject of the waste management licence application is outlined in red on Drawing No. 2.1.P. All references to 'the site' in this working plan shall mean this area (the recycling centre) and the associated infrastructure, plant and equipment. Land which is within control of the applicant is the same as that described above and has not been shown outlined in for this reason. Waste will be deposited, sorted and stored within the transfer building and also stored in any external bays which are granted by Flintshire County Council. Skips will be stored in the area shown on Drawing No. 2.1.P.

1.3.2 The waste management licence is required for the storage (keeping) prior to removal, and treatment (all types of handling/processing) of waste . Waste treatment processes to be carried out on site include the following:

Compacting (by loading shovel or compactor skip)
Sorting (with loading shovel or by hand)
Screening using a trommel

1.3.3 All waste and product will be stored in the transfer building until the planning application being processed by Flintshire CC is granted to permit external storage in covered bays.

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26/5/00

1.4 Hours of operation

1.4.1 The site will be operated during the following hours for the receipt of waste and all other operations:

Monday to Friday	0700 - 1730 hours
Saturday	0730 - 1200 hours
Sunday	0700 - 1200 hours
Bank/Public holidays	Closed

1.4.2 Floodlights will be used if necessary operations or emergency procedures are carried out after official lighting up times. Mobile floodlights will be made available if additional lighting is required.

1.5 Waste types and quantities

1.5.1 The waste types to be accepted at the site will be solid, dry non-hazardous household, commercial and industrial wastes as defined in the Controlled Waste Regulations 1992 and Section 75 of the Environmental Protection Act 1990. The waste will be collected from household, commercial and industrial premises.

1.5.2 A detailed breakdown of the waste types is attached to this working plan as Appendix III. The breakdown is not exhaustive and other wastes which have not been listed but which fall within the category described in 1.5.1 above will be accepted with the written agreement of the Environment Agency. No clinical, special or liquid wastes will be accepted

1.5.3 A maximum of 50 loads will be tipped at the site in any one working day. Such loads will be delivered to the site will be contained within skips, fixed body vehicles, on articulated/flat bed trailers or multilift vehicles.

1.5.4 The throughput of the site will be limited to a maximum of 500 tonnes per day and <25,000 tonnes per annum.

1.5.5 The maximum amount of waste (authorised by the waste management licence) to be stored on site at any time will be 160 tonnes. Storage space will be limited until external storage bays can be used.

Waste type	Max duration of storage	Maximum quantity stored
Mixed waste	7 working days	40 tonnes
Inert waste	31 days	120 tonnes
Putrescible	48 hours	< 1 tonne

The above storage periods will only be varied with the agreement of the Environment Agency.

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1.6 Staffing and management

1.6.1 The site is open for the deposit of waste or for other essential operations during the hours listed in Section 1.4 above. The list below details the staff structure of the site when it operating at full capacity. Positions in bold italic print below are the minimum staff requirements when the site is open for the reception of waste:

Position	No.	Responsibilities
Site Manager	1	Overall site management
Machine/plant operator	2 ***(1)***	Waste handling, reception and plant operation
General operatives	2***(1)***	Sorting & screening waste, maintenance and tidying the site

Additional temporary staff will be employed on site during busy periods to carry out site maintenance works, plant maintenance, administration and record keeping.

1.7 Health and safety

1.7.1 All operations on site will be carried out in accordance with the relevant requirements of the Health and Safety at Work Act 1974. Conditions of site use for employees, visitors and contractors are attached to this working plan as Appendix IV . These conditions will be shown to all site users and must be signed prior to using the site. Anyone not complying with the conditions of use will be asked to leave the site.

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26/5/00

1.8 Fit and proper persons

1.8.1 Technical competence - **Dewi Roberts** will register with WAMITAB (Waste Management Industry Training and Advisory Board) for the COTC (Certificate of Technical Competence) Level TSB-4 (managing transfer operations - biodegradable waste). He will be the technically competent manager at the site, subject to approval by the Environment Agency, for a period of 2 years from the date of issue of the waste management licence for the site [Regulation 4 - The Waste Management Regulations 1996]. Upon the expiry of the 2 year period he is expected to have gained the relevant COTC. However, If the COTC is not gained within this period a technically competent person holding the relevant COTC will be hired to manage the site until the qualification is obtained. During any periods of absence a manager with the relevant COTC will provide cover until Dewi Roberts returns to work.

1.8.2 Financial provision - A lump sum will be deposited in a bank account administered by the Environment Agency to provide a financial guarantee which will enable the Environment Agency to clear the site of waste in the event that Roadrunner Waste Limited ceases trading. Calculation of the amount required for the lump sum has been provided to the Environment Agency as supporting information.

1.8.3 Relevant convictions - at the date of application neither Dewi Roberts nor any employees or Directors Roadrunner Waste Limited had been convicted of a relevant offence.

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26/5/00

2.0 SITE ENGINEERING AND INFRASTRUCTURE

2.1 Access and parking

2.1.1 The Dee Bank Industrial Estate is accessed from the A548 Flint - Prestatyn Road. The site entrance is accessed via the industrial estate as shown on Drawing No. 2.1P.

2.1.2 Parking - adequate space is available within the site for 6 vehicles. Plant will be stored within the building outside operational hours.

2.2 Notice board and signs

2.2.1 A notice board is positioned on fencing to the right of the entrance gate and displays the following information:

- The site operator's name, address and telephone number.
- The Environment Agency's local name address and telephone number.
- The hours of operation of the site.
- The site licence number
- Emergency telephone numbers for the Environment Agency and the operator.

2.2.2 Additional signs may be displayed around the site for operational/health and safety purposes.

2.3 Site security

2.3.1 Gates - The main entrance/exit gates are located as shown on Drawing No. 2.1.P. They are constructed from 2 metre high box section galvanised steel and covered with galvanised wire mesh. The gates will be padlocked at all times when the site is unmanned.

2.3.2 Fencing - the site will be surrounded by secure fencing to prevent unauthorised pedestrian and vehicular access. The fencing is a mixture of close boarded fencing, galvanised steel palisade fencing and concrete sleeper fencing to a height of 2 metres and topped with barbed wire or razor wire.

2.4 Site office

2.4.1 The main offices of Roadrunner Waste will function as the site office for the recycling centre in so far as they are used for long term storage of relevant site documentation. A copy of the waste management licence and working plan are held on site in the transfer building and all remaining site documentation will be transferred to the aforementioned offices at the end of each working day for safe keeping. A telephone/facsimile for the recycling centre will be available on site during working hours.

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2.4.2 The table below details the relevant site documentation which will be kept in the site office until the end of each working day before transfer to the company offices and other documentation which is kept on site.

Document type	Procedure
waste management licence (copy)	Kept on site. Original in company office.
the working plan (copy of agreed document)	Kept on site. Original in company office.
site diary (to record all inspections/visitors to the site)	Kept on site. When completed remove to company offices.
Environment Agency inspection forms	Kept on site. Transferred to the company offices at the end of the working day.
in-house inspection sheets/recording forms	
duty of care transfer notes (for 2 years minimum)	Kept on site. Transferred to the company offices at the end of the working day.
special waste consignment notes	
waste delivery tickets	
weighbridge tickets	
accident book (& 1st aid kit)	Kept on site.

2.5 Weighbridge

2.5.1 A weighbridge will not be installed at the site. An on-board weighing computer will be fitted to the loading shovel to permit accurate loading of vehicles leaving the site and of loads deposited.

2.6 Wheel cleaning facilities

2.6.1 No wheel cleaning facilities are proposed at the site. The waste types handled on site and the fact that the site is surfaced with concrete/tarmacadam reduces the likelihood of mud or debris being carried onto the highway. Procedures are in place to ensure that mud and debris are not tracked onto the industrial estate road and the public highway. The imposition of strict dust control measures and the separation of vehicle running surfaces and waste storage areas has reduced the risk of the deposit of mud on the highway.

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SPE 26/5/00

2.7 Fuel storage

2.7.1 Fuel tanks will be stored on site at a location agreed with the Environment Agency. The tank will be surrounded by a bund which is capable of containing a minimum of 110% of the volume of fuel stored in the tank. A lock will be fitted to the tank valve to prevent unauthorised operation.

2.8 Waste transfer building

2.8.1 The waste transfer building is of steel portal frame construction with box section all weather plastic/steel cladding to all outer walls. The roof is constructed from similar cladding materials. Access and egress is via 1 steel roller shutter doors and 3 sliding doors which are closed when the site is not in operation.

2.8.2 The internal floor space of the transfer building is surfaced with reinforced concrete of sufficient strength for the tipping of loads, storage of waste, housing the screening plant and running loading plant. The floor will be laid to a fall (minimum 1:200) and will drain via a silt trap to a 2 - 4 m^3 steel holding tank (following agreement of specifications with the Environment Agency). The drainage layout for the building is shown on Drawing No. RW/02. The floor of the building will be surfaced with concrete to the minimum specification shown below:

Concrete specification: Mix: C40 (minimum 35% cement)
Depth: Minimum 150 mm, fibre reinforced
DPM to be installed to prevent moisture intrusion.

2.8.3 The holding tank will have a capacity of 2-4 m^3. This system is proposed to allow effective screening of the waste brought into the site. In the unlikely event of hidden contamination in a skip the contaminants will be contained by the holding tank rather than passing into the surface drainage system.

2.8.4 Two pits have been constructed from reinforced concrete to the specification listed in Section 2.8.2 above and are shown on Drawing No. RW/02. The waste reception pit will be used to receive waste and permit initial inspection of the waste. A steel push wall will be installed above the waste reception pit to permit effective loading of waste and to prevent persons falling into the pit. The second pit, of the same specification, is situated beneath the picking belt to receive the hand picked fraction for recycling/disposal.

2.8.5 Storage bays will be constructed at the end of the discharge conveyor of the trommel screen. The bays will have a clearance of 0.5 to 1.0 metres from the exterior walls of the building and will be constructed from railway or concrete sleepers set in vertical steel stanchions to a height of 1.7 - 2.5 metres. The end storage bay will be used to store product or crushed material from the crusher.

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JPE 26/5/00

2.8.6 Area for the deposit of rejected wastes - a 10 cubic yard or similar enclosed skip will be provided for the deposit of rejected waste which cannot be removed from the site immediately. This location may be varied as operating conditions permit.

2.8.7 Skips will be placed inside the waste transfer building for the removal of sorted waste for recycling. Once they are full they will be moved outside the transfer building for removal off site before the end of the working day. The discharge conveyor of the trommel will function as a 'picking belt' to permit effective screening of waste/product. Skips may be placed beneath the conveyor for removal of the recyclable or unsuitable materials, alternatively the material will drop into the pit to be collected by the loading shovel.

2.9 External storage areas

2.9.1 At the date of writing the planning permission for the external storage of waste or product had not been granted. Empty skips will be stored at the location shown on Drawing No. 2.1.P. As stated in Section 1.3.3 a planning application is being processed by Flintshire CC to permit external storage in covered bays, for product and inert waste only.

2.10 Drainage

2.10.1 Surface water control - all surface water from the concreted areas outside the transfer building will be drained to the surface water system via a series of silt traps and an oil interceptor. The drainage layout for the site will be agreed following further ground investigation. The interceptor will be a by-pass or full retention unit of 1000 litre minimum capacity.

2.10.2 Foul drainage form the toilets on site will be directed to the foul sewer.

2.10.3 The drainage system for the transfer building will be constructed as detailed in 2.8.3.

2.11 Vehicles, plant and equipment

2.11.1 Waste will be loaded using a 4-wheel loading shovel equipped with a bucket and on board weighing apparatus and/or a 360^0 excavator. The loader will be stored on site in the transfer building.. A water bowser or vacuum tanker will be employed to suppress dust on site. Additional plant will be hired to cover any very busy periods. Only trained operators will be permitted to drive the loading shovel. The list below may be subject to change.

Type of plant/equipment	No.	Function
Loading shovel	1	waste loading/unloading/movement
Trommel screen	1	screening of inert waste
360^0 excavator	1	replacement for loading shovel

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JPE 26/5/00

3.0 SITE OPERATIONS

3.1 Preliminary procedures

3.1.1 Guidance will be given by the site management to all employees, sub-contractors, other waste carriers and customers regarding the waste types which are acceptable at the site i.e. a copy of Appendix III of this document. The site will be primarily used for the receipt of waste from **Roadrunner Waste Limited**'s own operations. Where waste is brought in under sub-contract or is delivered by other hauliers then the carrier registration details will be taken for all new haulage operators bringing waste to the site and the details will be periodically checked with the Environment Agency to ensure that they are still registered. The procedures below are followed prior to the receipt of waste on site.

3.1.2 When a driver employed by Roadrunner Waste Limited arrives at the customers site to pick up a consignment of waste he will inspect the load for conformity with relevant regulations and safety procedures.

i. If the load is satisfactory the driver will sign the relevant paperwork and remove the load from the customer's premises.

ii. If the waste does not meet the description stated on the controlled waste transfer note the customer will be advised to check the note and give a more detailed description of the waste.

iii. If the more detailed description of the waste reveals that the waste is not permitted at the transfer site then the customer will be advised to contact the Environment Agency to find an alternative site.

iv. The driver may also report back to the site manager for instructions.

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JPE 26/5/00

3.2 Checking in & inspection of loads

3.2.1 All incoming vehicles are required to report to loading shovel/plant operator in the transfer building. The details of the load will be recorded and the duty of care note/company documentation will be further checked by the operator to ensure that the load is acceptable at the recycling centre. Any deviation from the procedures or problems with any loads will be reported to the site manager.

3.2.2 Once a load has been accepted by the operator the driver will be asked to unsheet the vehicle (if it is sheeted) and a visual inspection of the contents will be carried out to ensure that the waste types comply with the waste management licence. The nature of mixed industrial waste, for example, makes full inspection difficult until the load is deposited. If rejected waste is discovered before deposit the load will be rejected by the operator and returned to the producer. In cases where the unauthorised waste is likely to lead to a breach of licence conditions the Environment Agency will be contacted.

3.2.3 If the load is acceptable the driver will be instructed to deposit it within the transfer building - in the waste reception pit or adjacent to the push wall. If the load is unacceptable after deposit it will be loaded back onto the delivery vehicle and returned to the producer.

3.2.4 If the weighing bucket is not in operation the weight of loads will be estimated by using the volume conversion factors listed below (taken from draft Waste Management Paper No.2/3):

Waste type	Conversion factors tonnes/m^3	tonnes/yd^3
Foundry sand	1.60	1.22
Topsoil/subsoil	1.30	1.00
Clay	1.60	1.22
'Light' loads	0.46	0.35
Mixed builder's skips	1.20	0.92
Paper/cardboard	0.20	0.15
Tree cuttings	0.20	0.15
Glass	0.75	0.57
Industrial sweepings/general rubbish	0.63	0.48
Commercial sweepings/general rubbish	0.33	0.24
Waste packaging/containers	0.20	0.15

The actual weight of waste deposited at the site will be discovered when loads removed from the site are weighed at the destination landfill or recycling centre. For loads of inert material deposited at inert landfills or exempt sites the above conversion factor will be used. Additional conversion factors will be introduced following the regular weighing of loads from long term contracts and loads of a uniform nature.

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JPE 26/5/00

3.3 Waste deposit, handling and storage

3.3.1 Once a load has been accepted by the operator the contents of the delivery vehicles will be discharged adjacent to the push wall in the transfer building or in the waste reception pit The following procedures will then take place.

i. Loads which are suitable for immediate screening will be discharged adjacent to the push wall for loading into the trommel screen.

ii. All other loads will be crudely sorted in the waste reception pit using the loading shovel or 360^0 excavator which will deposit waste into the feed hopper of the trommel screen for recycling. Waste which is not suitable for recycling will be deposited in a bulk skip/container for removal off site.

iii. Operatives will manually sort recyclable waste such as cardboard, plastics, wood and metals for deposit in separate skips.

iv. Operatives will remove packaging or waste which is not suitable for recycling and place it in the bulk skip/container.

v. The trommel will be used to separate out the various fractions of inert/mixed material to produce fines/topsoil/subsoil and oversize material from the discharge conveyor. It will also be used where the inert waste contains quantities of paper, wood etc. which will be removed from the waste on the picking line/belt. Several small skips will be placed below the picking line for the deposit of metals etc. for recycling and unsuitable material for disposal.

vi. The trommel may also be used to screen inert material out of mixed waste with the storage bay at the end of the discharge conveyor being used to contain non-recyclable material prior to disposal.

3.3.2 Rejected wastes will be deposited in the skip provided for non conforming wastes. This will occur when non conforming waste is discovered after the deposit of a load and the producer of the load cannot be contacted (or identified) or where the removal off-site of the waste may cause further problems. The Environment Agency will then be contacted to agree a course of action where necessary.

3.3.3 When a collection vehicle arrives at the site the driver will be instructed by the loading shovel operator. The product or waste will be loaded using the loading shovel which will also weigh the material being loaded. All relevant documentation will be completed and the vehicle will be passed to carry the load to the designated recycler/disposal site.

3.3.4 If the maximum storage capacity of the site is reached then no further waste will be accepted until waste can be removed from the site and taken to a suitably licensed site. Skips will not be stored at a height greater than 3 metres.

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JPE 26/5/00

3.4 Record keeping

3.4.1 The details below will be recorded on a combination of the record keeping forms listed in Appendix II, invoices, weighbridge tickets, the site diary and controlled waste transfer notes (where required).

3.4.2 The following details will be recorded for every load deposited at the site:

(i) The date and time of delivery.
(ii) The name and address of the waste producer.
(iii) The type and quantity of waste (in tonnes or cubic metres).
(iv) The carrier's name and address
(v) Driver's name, signature and vehicle registration No.
(vi) Signature or initials of person accepting/ inspecting the waste
(vii) Additional handling details/notes made by the driver after inspection of the load

3.4.3 The following details will be recorded for all deposits of unauthorised waste at the site and will be forwarded to the Environment Agency, where required:

(i) Date and time of deposit.
(ii) A description of the waste.
(iii) The quantity of waste (in tonnes or cubic metres).
(iv) Name, address and telephone No. of waste producer.
(v) The carrier's name, registration number and vehicle registration.
(vi) Reason for the rejection of waste and action taken.

3.4.4 The following details will be recorded for every load of waste leaving the site:

(i) The date and time of removal.
(ii) The type and quantity of waste (in tonnes).
(iii) The destination waste management site or exempt facility.
(iv) The name and registration No. of the carrier or employee removing the waste (if applicable) and vehicle registration No.

3.4.5 A summary of waste types and quantities deposited at and removed from the site will be forwarded to the Environment Agency at intervals specified in the waste management licence for the site.

3.4.6 The outcome of all inspections of waste types, hardstanding areas, push walls, drainage channels etc. will be recorded on site inspection form RW/RF/4 and detailed comments will be entered into the site diary (including action taken or proposed).

3.4.7 Visitors to the site will sign the visitors book upon arrival and exit stating the purpose of their visit and who they represent.

AGREED
JPE 26/5/00

4.0 ENVIRONMENTAL CONTROL, MONITORING AND REPORTING

4.1 Breakdowns and spillages

4.1.1 In the event of breakdown of the loading plant an alternative loading shovel will be brought on site until it is repaired. If an alternative machine cannot be used then waste will be stored in the building until the plant is repaired. In the event of a long term breakdown of the loading plant an alternative machine will be brought on site until the faulty unit is repaired. The repair will be carried out at the most convenient location with absorbents used to clear oil or fuel spillages. For major repairs the vehicle will be moved to a workshop until the repair is effected.

4.1.2 All internal and external site surfaces will be inspected daily when the site is in operation. Debris will be swept as required and placed in a skip.

4.1.3. Any spillages of fuel will be cleared immediately by depositing sand or absorbents on the affected area. The sand or absorbents will be placed in a skip to be taken to a suitably licensed site for disposal. All spillages of waste and windblown litter will be cleared by the end of the working day in which they occur where practicable. Spillage clearance procedures are detailed in Appendix V below - Emergency procedures.

4.2 Site inspections and maintenance

4.2.1 The concrete hardstanding, drainage channels, push walls, leachate kerb, gates and fencing etc. will be inspected daily, when the site is in operation, to ensure that they are in good condition. The results of the inspection will be recorded on the site inspection form GW/RF/4. Detailed comments may also be recorded in the site diary.

4.2.2 Any major defects found during the daily site inspection which are likely to lead to a breach of licence conditions will be repaired by the end of the working day in which they are found where possible. If a repair is not possible by the end of the working day the Environment Agency will be contacted to agree a suitable timescale for repair.

4.2.3 Essential spares for plant maintenance will be kept on site. If there is a risk that dust will be emitted following a malfunction or breakdown the plant will be shut down for repairs and the waste/stockpiles handled in accordance with the procedures outlined in Section 4.4 below.

4.2.4 All drainage gullies and silt traps will be inspected at intervals agreed with the Environment Agency to ensure that they are functioning effectively. Silt and oil will be removed from the silt traps and interceptor by a vacuum tanker. The interceptor will be inspected weekly.

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JPE 26/5/00

4.3 Control of mud and debris

4.3.1 The surfacing of storage areas of the site with concrete/tarmacadam, the use of the road sweeper on site and the storage of waste within the building significantly reduces the the risk of mud deposition on approach roads. The deposit of material on the public highway will be treated as an emergency and will be cleaned with a mechanical vacuum sweeper.

4.4 Control and monitoring of dust

4.4.1 All site operations will be carried out to minimise the creation of dust. A water hose will be used to spray the site roads, any dusty surfaces and inert waste to prevent the formation of excessive dust. During dry conditions or when dealing with particularly dry wastes a bowser or vacuum tanker will be used to spray the site surfaces to prevent the formation of excessive dust - this particularly applies to site roads, storage, loading and unloading areas.

4.4.2 Water Supply - A constant supply of mains water will be available for dust suppression in all climatic conditions. The water hose will be used by the plant operator to spray areas on or around the trommel screen or loading plant which are likely to give rise to dust emissions. All external water pipes will be lagged to prevent frost damage during Winter months.

4.4.3 Sheeting of vehicles - Vehicles carrying potentially dusty loads off site will be securely sheeted before leaving the site. Loads will be sprayed with water prior to sheeting if necessary.

4.4.4 Stockpile management

i. Drop heights from all discharge points will be kept to a minimum to prevent dust emissions.

ii. Where material <3 mm in size is present in the material to be screened or crushed the last metre of the final size discharge conveyor and the first metre of the free fall of the materials will be fitted with a hood to further reduce dust emissions if necessary.

iii. Stockpiles will be sprayed with water to prevent excessive drying and dust formation and stockpile height will be limited to 4 metres.

4.4.5 Additional equipment for the screening plant will be available during windy conditions which may affect the building when the doors are open. Wind boards and a discharge hood will be made available to enclose wind sensitive areas of conveyors to reduce the risk of dust emissions.

AGREED
26/5/00

4.5 Odour control

4.5.1 The containment of waste within the building and the range of waste types accepted at the site present a very low risk of odour nuisance. If malodorous waste is deposited on site it will be consigned to the skip for rejected waste.

4.6 Litter control

4.6.1 The most likely sources of litter on site are from within the building or from incoming loads. The building will significantly reduce the effects of wind. Inspections will be carried out for the presence of windblown litter daily and operatives will be instructed to collect the litter and return it to the building or place it in a skip for disposal/recovery.

4.7 Control of pests, birds and other scavengers

4.7.1 It is unlikely that vermin will present a problem because of the waste types handled at the site but a recognised pest control contractor will be brought in if any problems are encountered. The site will be inspected daily for the presence of vermin and the results of the inspection noted in the site diary or site inspection form.

4.8 Vibration

4.8.1 No vibrating plant other than waste screening equipment will be used on site.

4.9 Control and monitoring of noise

4.9.1 It is not anticipated that site operations will be cause a noise nuisance because of the scale and location of the operation. The Best Practicable Means will be employed on site at all times to ensure that all plant and equipment does not produce excessive noise beyond the site boundary and complies with planning condition No. 12.

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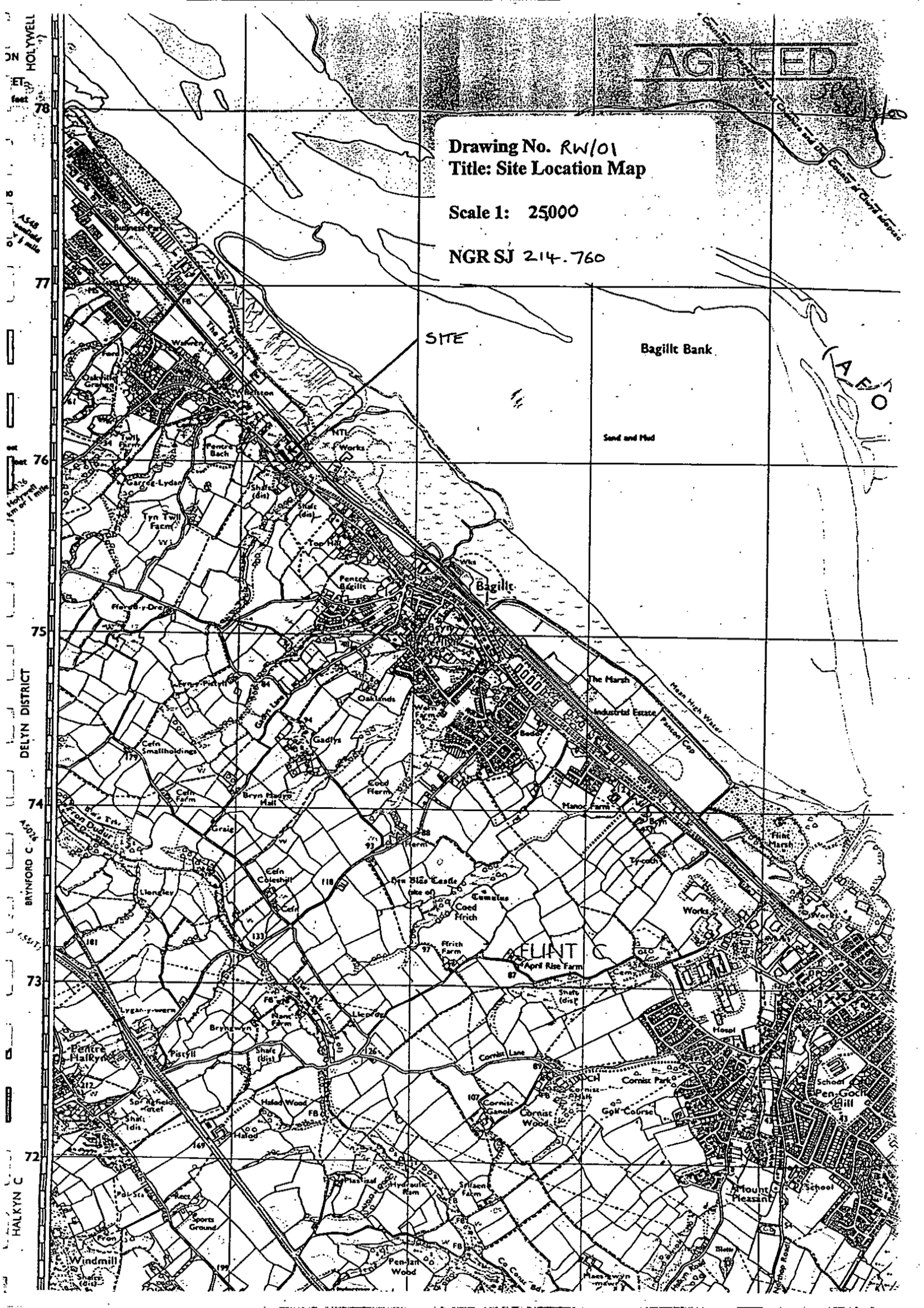


AGREED
Drawing No. RW/01
Title: Site Location Map
Scale 1: 25,000
NGR SJ 214.760
SITE
Bagillt Bank
Sand and Mud
Bagillt
The Marsh
Industrial Estate
Mean High Water
Manor Farm
Flint Marsh
Works
FLINT C
April Rise Farm
Cornist Lane
Cornist Park
Golf Course
Pen-Goch Hill
School
Mount Pleasant
Pen-llan Wood
Windmill
Sports Ground
Halod Wood
Cornist Wood
Ffrith Farm
Coed Ffrith
Cumulus
Oaklands
Gadlys
Coed Fferm
Bryn Hedyn Hall
Cefn Smallholdings
Cefn Farm
Graig
Cefn Coleshill
Llongley
Fron Dudur
Tyn Twll Farm
Garreg-Lydan
Pentre Bach
Pentre Bagillt
Top Hall
Lygan-y-wern
Bryngwyn
Pistyll
Pentre Halkyn
Business Park
DELYN DISTRICT
BRYNFORD C
HALKYN C
HOLYWELL
78
77
76
75
74
73
72

Daktree Environmental
Unit R8, Verdin Exchange,
High Street, Winsford,
Cheshire CW7 2AN
Tel: 01606-558833

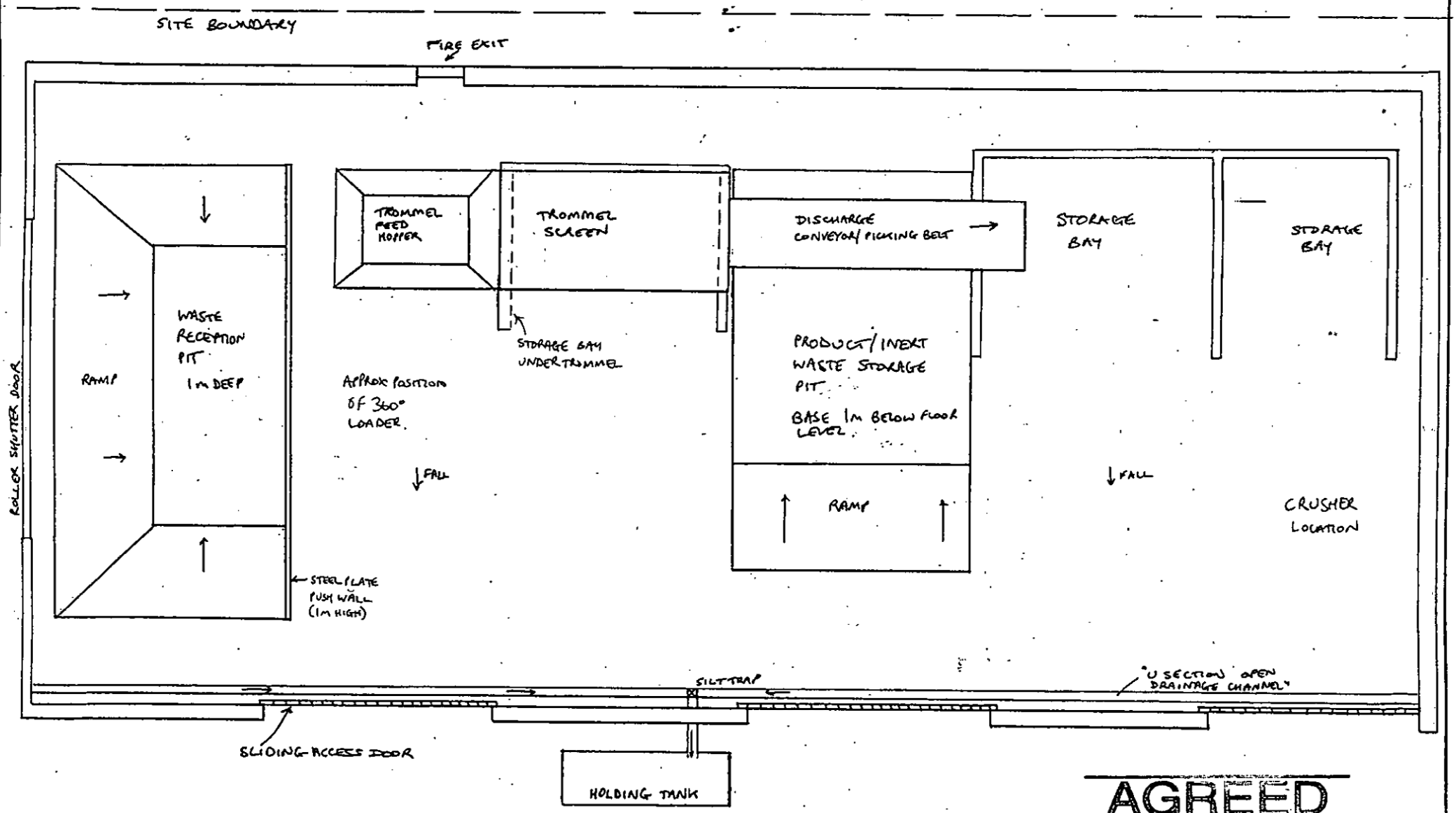
DRAWING No. RW/02

TITLE: TRANSFER BUILDING LAYOUT

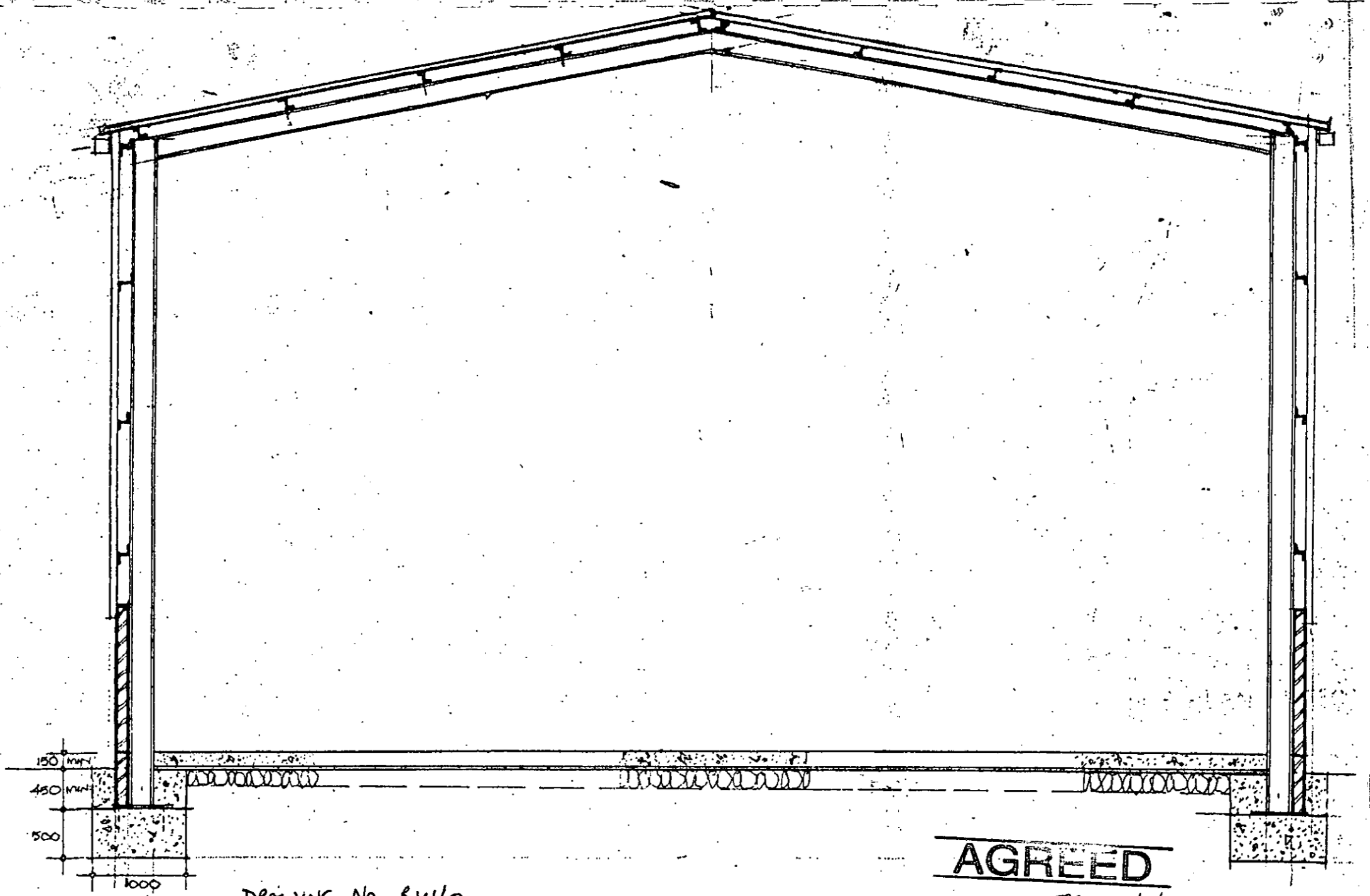
SCALE: 1:100

DATE: 08.02.00 DRAWN BY MM

AMENDED 21.02.00 REV A.

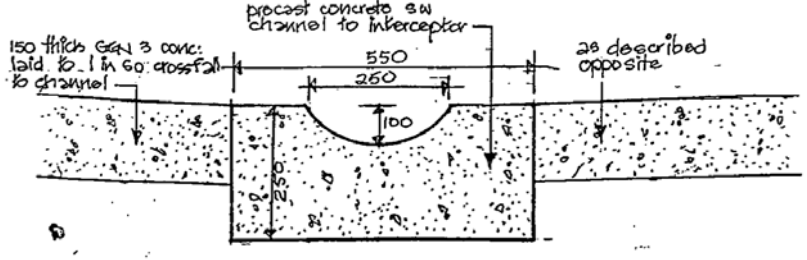


AGREED
JPC 26/5/00



DRAWING No. RW/0
TRANSFER BUILDING CROSS SECTION
SCALE 1:50

AGREED
JPE 26/5/00



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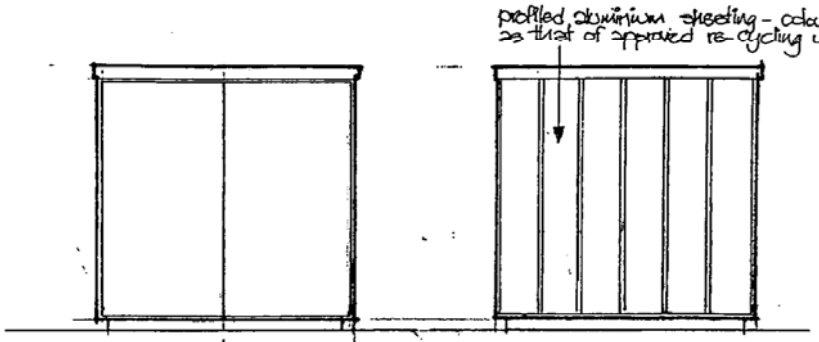
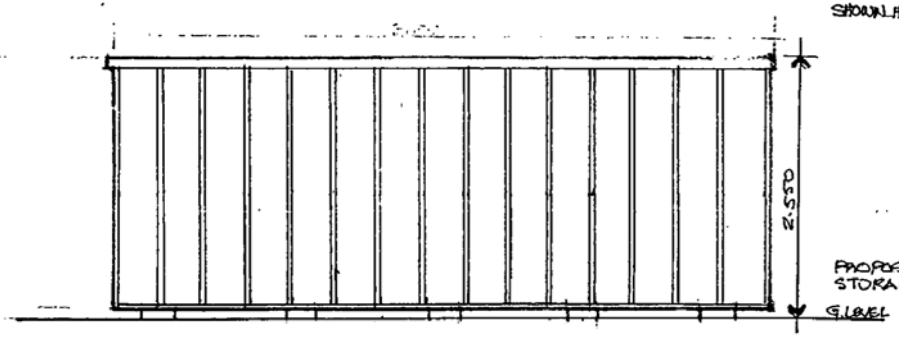
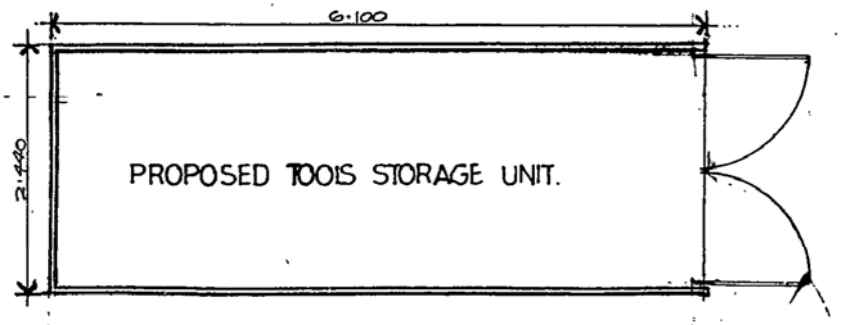
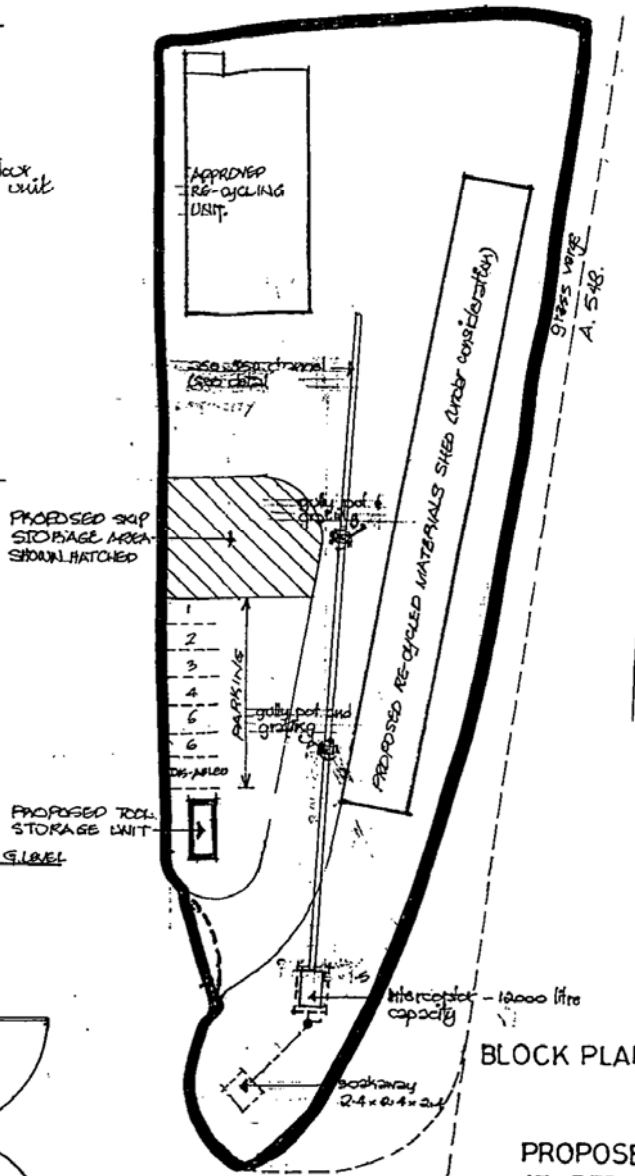




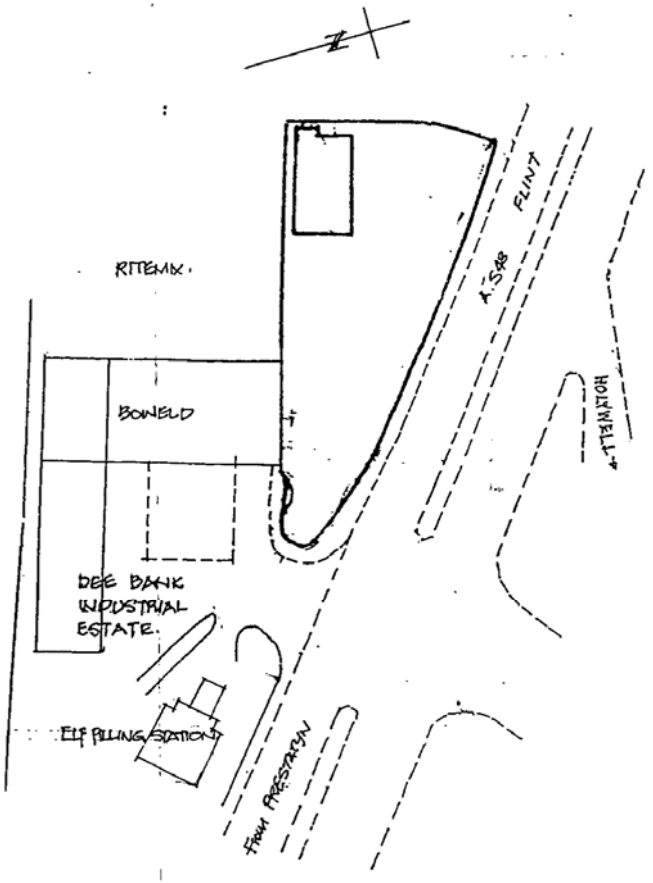
NORTH and SOUTH ELEVATIONS.



PLAN.



BLOCK PLAN 1:500.



SITE PLAN 1:1250.

PROPOSED TOOLS STORAGE UNIT AND VEHICLE PARKING AT DEE BANK INDUSTRIAL ESTATE. BOOT END. BAGILLT. FLINTSHIRE for MR. D. ROBERTS.

D. Trevor Roberts Associates Building Surveyors
2, Bodlwyfan, Mostyn, Flintshire CH8 9PY
Tel/Fax 01745 560524

15.2.2000

DWG: No: 2-1-P

AGREED
JPE 26/5/00

Appendix II

Record Keeping Forms

ROADRUNNER WASTE LIMITED - RECYCLING CENTRE

DATE:.....

Waste Input Record Form - RW/RF/1

TIME	PRODUCER	WASTE TYPE	QUANTITY TONNES / M³	NAME OF CARRIER	DRIVERS NAME	DRIVERS SIGNATURE	VEHICLE REG. NO.	WASTE ACCEPTED/ INSPECTED
TOTAL FOR THIS SHEET								
TOTAL FROM PREVIOUS SHEET				SHEET No. OF CHECKED.....				
TOTAL WASTE DEPOSITED								

ROADRUNNER WASTE LIMITED

RECYCLING CENTRE

REJECTED WASTE - RECORD FORM RW/RF/2

DATE	
TIME	
WASTE DESCRIPTION	
QUANTITY OF WASTE	
PRODUCER/HOLDER'S NAME, ADDRESS & TELEPHONE No.	
NAME OF CARRIER	
VEHICLE REGISTRATION	
CARRIER REG. No.	
REASON FOR REJECTION OF WASTE	
ACTION TAKEN	

NOTE: FAX TO ENVIRONMENT AGENCY ON 01244-550144

ROADRUNNER WASTE LIMITED - RECYCLING CENTRE

Waste Output Record Form - RW/RF/3

Month.....

DATE	TIME	WASTE TYPE	QUANTITY (TONNES)	DESTINATION SITE (INCLUDING COUNTY)	NAME OF CARRIER OR EMPLOYEE REMOVING WASTE	VEHICLE REG. NO.
TOTAL FOR THIS SHEET						
TOTAL FROM PREVIOUS SHEET =				SHEET No. OF . CHECKED.....		
TOTAL WASTE EXPORTED (TONNES) =						

ROADRUNNER WASTE LIMITED - RECYCLING CENTRE

SITE INSPECTION FORM - RECORD FORM RW/RF/4

WEEK STARTING	

TYPE OF INSPECTION	FREQ.	DAY						
		M	T	W	T	F	S	S
WASTE TYPES	DAILY							
WASTE STORAGE	DAILY							
WASTE QUANTITIES	DAILY							
SECURITY - FENCING	DAILY							
SECURITY - GATES	DAILY							
FIRES	DAILY							
PLANT/EQUIPMENT	DAILY							
LITTER	DAILY							
DUST	DAILY							
MUD ON ROADS	DAILY							
ODOUR	DAILY							
VERMIN	DAILY							
WASTE CONTAINERS	DAILY							
FUEL TANK/BUND	DAILY							
'PUSH WALLS'	WEEKLY							
SITE ROADS	WEEKLY							
CONCRETE HARDSTANDING AREAS	WEEKLY							
DRAINAGE CHANNELS	MONTHLY							
HOLDING TANK	WEEKLY							
INSPECTION CARRIED OUT BY								

CHECKED BY	DATE	
SIGNATURE		
POSITION		

Appendix III

Waste types

ROADRUNNER WASTE LIMITED - WASTE TYPES ACCEPTED

abrasives
ash
bitumen (solidified only)
boiler scale
brickwork
bushes
cables
carbon and carbon/boron fibre
cardboard and paper
cement
ceramics
chalk
china
clay
clinker (excluding incinerator residues)
concrete
cork
dredgings (de-watered)
ebonite
electric cable/wire
electrical fixtures, fittings and appliances
empty containers of less than 50 litre capacity
enamels
excavated road metal
fabrics (natural/synthetic fibres)
felt (roofing)
fibreboard
fines/brick/stone dust
floor sweepings
foundry and moulding sands (clean)
furniture, including foam rubber products
garden/horticultural waste
gas fixtures, fittings and appliances
glass and glass fibre
grass cuttings
gravel
hardcore
hassocks
kapok
kieselguhr/ diatomaceous earth
mica
packaging
peat
pipework
pitch (solidified only)
plaster
plasterboard
plastics
pottery
ragstone
road planings
rock
rubber/latex
sand
shot blasting residue
silica
silt (de-watered)
slate
solid ferrous and non-ferrous scrap metals (no swarf/dust)
stone
subsoil
tar (solidified only)
tarmacadam
tiles
topsoil
trees/tree cuttings
wood
wood products - hardboard, fibreboard etc.

The following waste types are excluded from the above category and will not be accepted:

1. all types of asbestos
2. animal waste - including animal processing waste and carcasses
3. batteries
4. clinical wastes
5. contaminated soils (EA definition)
6. fragmentiser wastes
7. liquid or chemical wastes
8. oils, fats, waxes or greases (other than small quantities found in skip loads)
9. paint waste
10. sludges or interceptor wastes
11. transformers (containing oils)
12. vegetable/food waste (other than small quantities found in skip loads)
13. cellulose waste
14. glue wastes
15. tyres
16. contaminated slag

Appendix IV

Health and Safety - Conditions of site use for staff and visitors.

ROADRUNNER WASTE LIMITED - RECYCLING CENTRE

HEALTH AND SAFETY - CONDITIONS OF SITE USE

The following guidelines apply to all site personnel, contractors and visitors using the site (where applicable).

1. The site is covered by the Health and Safety at Work Act 1974 and its associated regulations and all users must abide by any relevant provisions. Any person found to be in contravention of the requirements of this Health and Safety Statement will be asked to leave the site.

2. All visitors and contractors must sign the visitors book upon entry to and exit from the site. All vehicle drivers must report to the site office and await instruction from the site manager/deputy before proceeding to deposit waste at the site.

3. All accidents, diseases, injuries or dangerous occurrences shall be reported to the site manager. All instructions issued by the site manager in respect of health and safety at the site must be followed by all site users.

4. A first aid box (including eye-wash bottles) is kept in the site office. If you are injured on site please alert a member of staff/trained first aider for assistance.

5. All persons must wear high visibility clothing on site to avoid collision with loading plant.

6. Safety boots must be worn by all persons in the waste sorting area.

7. Protective gloves must be worn for any operations which present a hazard of puncture to or laceration of the skin or for any manual handling work carried out within the transfer compound.

8. Ear defenders, safety helmets (hard hats) and eye protection will be issued when deemed necessary and must be worn by all employees and contractors where required by the site manager or other site representatives.

9. Fire extinguishers are kept on site to deal with any fires - fires shall only be dealt with by employees of Roadrunner Waste Limited unless alternative instructions are given by the site manager. Access to fire exits and fire fighting equipment must be kept clear at all times. When the fire alarm sounds please follow instructions and leave the site in an orderly fashion.

10. Persons who are suspected to be under the influence of drugs or alcohol will be removed from the site.

11. Smoking is not permitted in the transfer building or in the external waste storage areas.

12. Observe and follow all traffic directions and traffic/safety signs.

13. Drivers must comply with all safety instructions given by the site manager or his appointed deputy.

14. All drivers are responsible for ensuring that their vehicle is safely loaded. Unsafe loads will not be accepted at the site and will not be allowed to leave the site until they have been made safe.

15. Drivers waiting to tip at the transfer station shall follow the instructions of the transfer station operator and shall only tip in the designated bays, unless advised otherwise. No tipping shall take place over screened stockpiles.

16. Drivers must remain in the cab or stand well clear of the vehicle during loading or tipping. Once the vehicle has been loaded it must be securely sheeted (if necessary) before leaving the site. When sheeting and unsheeting the vehicle ensure that the engine is switched off, the ignition key removed and the parking brake is on. Do not gain access using the mudguards and wheels. Ensure that your ropes, hooks and sheets are in good condition.

17. Never travel with the vehicle body raised. Ensure that you know the maximum height of the raised body of your vehicle.

Declaration: To be completed by site users

I have read and understand the conditions of use for this site and agree to comply with them at all times. I accept that neither Roadrunner Waste Limited nor its employees shall be liable for any loss or injury arising from my non-compliance with the above conditions.

Signed.....

Print name.....

Company/Organisation.....

Date.....

Note: these conditions are included in the working plan for information only and may be revised regularly a s part of the site health and safety policy.

Appendix V

Emergency Procedures

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APPENDIX V - EMERGENCY PROCEDURES

1.0 General

1.1 In addition to obligations imposed by RIDDOR '95 (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995) the operator will notify the Environment Agency of any serious injuries to employees of Roadrunner Waste Limited, other site users or members of the public arising as a result of operations on site. Minor injuries such as cuts and grazes will be recorded in the accident book on site. Separate procedures will be used for different types of emergency. An emergency at the site is defined by the site management as follows:

"Any incident likely to result in harm to human health or pollution of the environment or serious breach of licence conditions and serious detriment to the amenities of the locality."

1.2 For all emergency situations the deposit of any further waste will be suspended where necessary to allow action to be taken safely. If necessary staff and other users of the site will be evacuated to an area which is a safe distance away from the hazards. Staff handling the emergency will be provided with and trained to use the necessary PPE (personal protective equipment) unless the manager instructs them that the hazard is too severe and outside help is needed from the emergency services or specialist waste contractors.

2.0 Fire

2.1.1 No waste will be burnt on site other than in plant specifically designed for the purpose and in accordance with the relevant statutory instruments. In the event of a fire occurring on site the operator will exercise his judgement and extinguish the fire with the water hose or suitable fire extinguisher or call the fire service for assistance. Any fires will be reported to the Environment Agency on the working day that they occur and will be confirmed in writing by fax or letter within 3 working days. All staff will be evacuated from the transfer building and office if necessary. Smoking is not permitted in the transfer building.

3.0 Spillages

3.1 All fuel stores on site are bunded to contain any fuel leaks. Oil and vehicle maintenance chemicals are securely stored in vehicle maintenance building outside the site boundary. If any spills occur a spill containment kit (absorbent pads, booms or granules) will be used to prevent further spillage and the contaminated absorbents placed in a skip for disposal to a suitably licensed landfill. No chemical leaks are expected in the waste handling area but should they occur the procedures outlined in the Section below will apply.

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4.0 Drums

4.1 Drums The deposit of drummed waste will not be allowed at the site. If a drum is concealed within a skip and is not observed until the skip is emptied on the hardstanding area then the following procedure will apply:

i. The staff member will visually check the condition of the drum from a safe distance, noting any labels referring to the possible contents or hazards.

ii. The site manager will be contacted to verify the observations and to decide on further action.

iii. The producer of the waste and the Environment Agency will be contacted for advice and further information if necessary and both will be informed that a breach of the Duty of Care and site licence conditions has occurred as the result of the unauthorised deposit.

iv. No further waste will be deposited until the emergency has been dealt with.

v. All spillages will be cleared using a spill containment kit and all contaminated absorbents placed in a skip for disposal to a suitably licensed waste management site.

vi. If the deposit results in serious reactions with other waste or harmful emissions or the drum contents cannot be identified then the emergency services and/or specialist waste contractors brought in to assist. If necessary staff will be evacuated from the site or to a safe area within the site. The deposit of drummed waste will not be allowed at the site. If a drum is concealed within a skip and is not observed until the skip is emptied on the hardstanding area then the following procedure will apply:

5.0 Adverse reactions

5.1 No wastes are accepted which will react to present such a hazard. If unauthorised waste is found in a skip and does present such a hazard the same procedures as for the deposit of drums (above) shall apply.

6.0 High winds

6.1 The deposit of skips containing light wastes likely to be blown off site in high winds will either cease until conditions improve or until litter netting is emplaced around the waste handling area or storage area at risk. Vehicles leaving the site will be sheeted to comply with the requirements of the Duty of Care legislation.

7.0 Poor visibility

7.1 The site will not operate in conditions of poor visibility such as dense fog to reduce the risk of vehicle collision.

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8.0 Operational failure

5.8.1 The manager will be contacted in the event of any operational failure such as the breakdown of plant, systems or equipment and will decide whether operations are to continue or be suspended prior to corrective action being taken. Serious operational failures which result in the closure of the site will be recorded in the site diary.

9.0 Overturned vehicle

9.1 If a vehicle is overturned on the site or near the site entrance then no further waste will be accepted until the vehicle has been righted and any spillages have been cleared as described in Section 3.0. If a vehicle is overturned on the site or near the site entrance then the site will cease operation until the vehicle has been righted and any spillages have been cleared as described in Section 3 above.

10.0 Bomb scare

10.1 In the unlikely event of a bomb scare the site will be evacuated and the police contacted. The police will then assume control of the site until the threat has been verified or the device defused and removed.

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Appendix VI

Exempt Activities

EXEMPT ACTIVITIES

The list below outlines the exempt activities which may be carried out at the recycling centre. All of the exemptions will be registered with the Environment Agency on the date the waste management licence is submitted.

1. WOOD SHREDDING

Plant for chipping, shredding, cutting or pulverising waste plant matter (including wood or bark) will be situated within the licensed area but is exempt from licensing by virtue of Paragraph 21 of Schedule 3 of the Waste Management Licensing Regulations 1994. To comply with the exemption all waste processed will be subjected to a recovery or reuse operation and no more than 1,000 tonnes of waste will be stored prior to processing. The location and nature of the shredding plant will be notified to the Environment Agency prior to use. Only waste which has been segregated at source and small quantities from the transfer station will be directly processed by the wood shredder.

2. SORTING, BALING ETC. OF RECYCLABLE WASTE

Plant for baling, sorting or shredding plastics, paper, cardboard, textiles and cans may be situated within the licensed area but its use is exempt from licensing by virtue of Paragraphs 11 & 17 of Schedule 3 of the Waste Management Licensing Regulations 1994. The table below shows the limits for storage and processing of recyclable waste - these are limits imposed by the Waste Management Licensing Regulations 1994 and not the limits which necessarily apply to the site.

WASTE TYPE	WEEKLY PROCESSING LIMIT	MAXIMUM STORAGE ALLOWED
PAPER OR CARDBOARD	3,000 TONNES	15,000 TONNES
TEXTILES	100 TONNES	1,000 TONNES
PLASTIC	100 TONNES	500 TONNES
GLASS	1,000 TONNES	5,000 TONNES
STEEL/ALUMINIUM CANS	100 TONNES	500 TONNES
CARTONS	100 TONNES	500 TONNES
CONSTRUCTION INDUSTRY WASTE	NOT APPLICABLE	100 TONNES
TYRES	NOT PERMITTED	1,000 TYRES

3. STORAGE OF WASTE FOR CONSTRUCTION

Paragraph 19 of Schedule 3 of the Waste Management Licensing Regulations 1994 permits the use of construction industry waste for construction works and associated storage. The waste will be stored on site prior to use for a maximum of 3 months.

4. WOOD BURNER

Paragraph 5 of Schedule 3 of the Waste Management Licensing Regulations 1994 permits the use of a wood burner to heat the transfer building. The plant will have a net rated thermal input of less than 0.4 megawatts

5. REGISTRATION

The recycling activities to be registered with the Environment Agency as follows:

Exemption	Description	Date registered
Paragraph 5	Burning wood as a fuel	Date of application
Paragraph 11	Processing recyclable waste	Date of application
Paragraph 17	Storage of waste for use in Paragraph 11	Date of application
Paragraph 19	Storage of waste for construction	Date of application
Paragraph 21	Preparatory treatment of waste plant matter	Date of application