Amber Services

The Recycling Centre

Dyffryn Business Park

Ystrad Mynach

Caerphilly

CF82 7TR

Working Plan

Version 3

July 2012

WORKING PLAN-MATERIALS RECYCLING CENTRE

SECTION 1: SITE DESCRIPTION AND CHARACTERISATION OF RISK SOURCE

1.1 SPECIFIED SITE AND WASTE MANAGEMENT OPERATIONS

The location of the site is Dyffryn Business Park, Ystrad Mynach. The nearest developments to the site are the Royal Mail, and an industrial development known as Brohome. The nearest housing is 500m away. The site is bound on the east side by the A469.

The specified waste management operations which are to be undertaken within the permit boundary are :

- storage of waste pending any of the operations listed in paragraphs 1 to 12 , but excluding temporary storage, pending collection, on the site where the waste is produced (R13)
- recycling or reclamation of organic substances which are not used as solvents, (R3)
- recycling or reclamation of other inorganic materials (R5)
- recycling or reclamation of metals and metal compounds (R4)
- physico-chemical treatment of waste consisting of separation, sorting, baling, shredding, cutting, granulating, crushing and size reduction (D9)

The physical waste treatment will consist of sorting, screening, crushing, shredding, granulating and separation of waste into recyclable components and the bulking up of solid wastes for transportation for disposal or recycling.

The waste operations will be undertaken within the area outlined in red on Drawing number AW 4553/CF-BC/021.002. The waste will be accepted at the

site from the Amber Services own vehicle fleet and waste delivered by third parties including local authorities.

The layout of the site and of the various operations is outlined on the attached plan JJ-10/03-1 dated 21/7/2012. The site operations form essentially five activities with Area A B, C, D and E. Access will be maintained in the site yard to allow vehicles to deliver waste for processing and to transfer and for refueling as necessary.

Area A wastes consist of biodegradable wastes and other non construction and demolition type wastes for recycling or disposal.

Area B waste consist of construction and demolition wastes which are predominantly soils, bricks, concrete and small amounts of other materials. Any materials deposited in area B which are not suitable for processing shall be removed from area B to the recycling yard area A for sorting or disposal. Area B will only accept wastes suitable for processing by crushing and screening to produce secondary aggregates and fines. Any other materials such as metals will also be recovered.

Temporary storage will be necessary at the site for materials awaiting processing. The maximum storage time for degradable wastes within the Area A will be 7 days. The maximum storage time for construction and demolition wastes awaiting processing (Area B) shall be 28 days.

Area C consists of wastes not subject to any further sorting and being bulked up prior to forwarding to a suitable re-processor (eg glass, plastics, cardboard). Other processed waste in a form suitable for storage may be stored at other suitable locations within the licensed area to maintain operational flexibility.

Area D is used for the asbestos skip used to store asbestos found in waste delivered to the site along with other skips containing cement bonded asbestos. A quarantine skip is also stored in this area.

Area E inside the buildings is for the ancillary services to the main waste operations , ie :

1. Shredding plant for the reduction of timber, plastic, tyres and others
2. Baling plant for baling recycled and waste materials
3. Cable stripper for preparation of household and industrial cables
4. Granulator for electric cables plastics and others
5. Shears for cutting material.

1.2 PERMITTED WASTES

The site will process the waste groups listed in Appendix A.

The total quantity of waste accepted at the site per year will not exceed 74,999 tonnes.

The permit allows a maximum of 500 tonnes of biodegradable waste to be stored on site with a 7 day storage limit.

The permit allows a maximum of 3000 tonnes of construction and demolition waste at any one time with a 28 day storage limit.

These figures do not include any waste which may be accepted at the site under any registered exemptions.

Overloading and Breakdown

The design capacity of the facility will not be exceeded during operation. The facility will not accumulate solid waste in quantities that cannot be processed within the times specified in the environmental permit.

The site management or a delegated officer will assess the waste quantities and the waste storage times on site on a daily basis and if the limits specified within the permit are at risk of being breached immediate action will be taken to prevent a breach of these limits.

Action could include :

- Utilising additional staff to process materials quicker
- Utilising additional vehicles to remove recycled materials from site or removing waste for disposal
- Diverting waste from being accepted at the site to alternative facilities
- Delaying the collection of waste until sufficient storage capacity is available.

If the work stoppage is anticipated to last long enough to create objectionable odours, insect breeding, etc steps will be taken to remove the accumulated solid waste from the facility to an approved backup storage, processing, or disposal facility within 24 hours.

Backup Provision:

In the event of equipment repairs or during equipment maintenance periods, the facility will obtain equipment from other facilities, contractors, or local rental companies to avoid interruption of waste services.

1.3 HOURS OF OPERATION

Hours during which the site will be open for reception, handling, treatment and removal of waste are specified in the planning permission for the site.

SECTION 2: SITE ENGINEERING FOR POLLUTION PREVENTION AND CONTROL

2.210 ENGINEERED SITE CONTAINMENT & DRAINAGE SYSTEMS

The vast majority of the site is on a concrete hardstanding to prevent egress of fluids from the site boundary. The full perimeter of the buildings and the perimeter edge of the external hardstanding have a continual kerbed upstand.

A series of gulleys intersect across the site with man holes to divert run-off. These are adequately sized to accommodate run off from the site.

A full retention Class 1 interceptor is situated adjacent to the wash down bay area outside the building. This unit will intercept contaminated water and has been designed to have a suitable retention time. This allows oils, petrol and other lighter than water pollutants to rise to the surface of the water. These pollutants are retained in the unit. Treated water then discharges through a closure device, sealing off the outlet preventing excess stored pollutants contaminating the discharge. A variable bypass Class 2 interceptor is also be employed at the site. Periodic maintenance will be undertaken for interceptor equipment to ensure effective operation.

Discharge is via a consented discharge to surface water.

A diesel tank used for refueling vehicles will be sited at the right hand side of the large main interceptor as indicated in drawing no. JJ-10/03-1. This is fully bunded. Associated with this will be a small petrol interceptor prior to the main large Class 1 interceptor.

Oil tanks will be sited adjacent to the building on the right hand side. There will be three dedicated tanks, one being used for waste oil, one for hydraulic oil and one for engine oil. All of these will be 500 litre in capacity. They will be of

metal construction and will be situated inside a bund of 110% of the total material volume to be accepted in the store.

Smaller drums will also be utilised, ranging in size from 25-90 litres, and will contain transmission oils, gear oil, antifreeze, grease and others. They will be kept on pallet/drip trays situated inside the workshops which will contain up to 110% of the total material volume to be accepted.

A wash down area will be situated to the right of the workshops outside the building. This will be used for the wash down of vehicles and skips.

When the oil, quarantine and asbestos storage containers are installed, it will be ensured that the enclosure openings are locked when not in use. This area will be visible from the welfare building and as such will be secure from interference by non-authorised personnel.

SECTION 3: SITE INFRASTRUCTURE

3.2 SITE SECURITY

The site will be bound on all side by a mixture of fencing types but all to a standard to ensure that the security of the site is maintained.

There is only one access point to the site and this will be equipped with security gates. This will be manned during the day. A CCTV camera system has also been installed, with a security firm to monitoring the site at night.

SECTION 4: SITE OPERATIONS

4.160 CONTROL OF MUD AND DEBRIS

The surface of the majority of the yard used by vehicles is of concreted this will reduce the amount of mud and debris that is produced on the site. In order to minimise the possibility of vehicles leaving the site with mud and debris on the wheels, use will be made of a wash down area. This will prevent materials being carried away from the site and being deposited on public roads.

In the event that mud and debris arising from the site is deposited on public roads outside the site, a cleansing / road sweeper shall be deployed within 3 hours of notification.

4.210 WASTE ACCEPTANCE & CONTROL SYSTEMS AND PROCEDURES

The waste which is to be transferred from an external source will be accepted onto the site and held in a variety of commercial/industrial vehicles.

Waste Acceptance

The driver will enter the site via the main (and only) entrance to the site and drive onto the weighbridge. The full load and the vehicle will be weighed; the duty of care transfer notes will be handed over to the site worker and the weighbridge ticket will be produced. The site worker will then visually check the load to verify that it meets the description in the transfer note. If non conforming material is visible, the load will not be accepted. If the waste is deemed suitable for processing by crushing and screening the site worker shall direct the load to the Area B processing area as shown on plan JJ-10/03-01. Any wastes which do not require further sorting or treatment (eg glass, baled plastics, baled cardboard) shall be directed to Area C. Any cement

bonded asbestos shall be directed to Area D. All other wastes shall be directed to the recycling yard area (Area A).

All waste delivered to the site will be accompanied by a transfer note detailing the waste origin and volume. In the case of cement bonded asbestos the waste shall be accompanied by a consignment note.

Area A - Waste Control and Despatch

If the waste is acceptable, the driver will then transfer waste to the recycling yard area. This area will be delineated by some sort of visible means such as skips or cones on the yard. The driver will then be met by the site foreman or their representative. If the load is found to be non conforming under the terms of the waste management permit the vehicle shall be reloaded and returned to the producer. A record of returned loads is kept at the weighbridge.

Once the waste has been tipped in the recycling yard area, a team of up to ten site workers will sort the waste. The waste will be sorted by a mix of hand sorting and machinery which may include a loading shovel and a grab which is able to rotate through 360° on wheels. The site workers will be equipped with PPE including protective footwear, gloves and overalls. The personnel will sort the waste into different categories and the shovel will take the loads to dedicated waste skips/containers located in the yard for each of the waste streams. Once full, the skips/containers will be transferred to their respective disposal destinations (landfill/recycling).

Area B - Waste Control and Despatch

Waste suitable for processing by crushing and screening will be directed to the area shown as Area B on plan JJ-10/03-01. Unloading shall be supervised by the site operative working on the processing plant. If the load is found to be non conforming under the terms of the environmental permit the

vehicle shall be reloaded and returned to the producer. A record of returned loads is kept at the weighbridge.

Once waste has been deposited in the area marked as B on plan JJ-10/03-01 it will be processed by loading the material into the trommel, where the crushing and screening operations take place. The stockpile of material to be processed shall be kept within the area shown on plan JJ-10/03-01 and generally will be maintained at a maximum height of materials shall be 5m. In addition to the crushing and screening operations, manual picking is employed by operative equipped with the appropriate PPE, to remove any other recyclable materials and waste destined for disposal. Materials for disposal are kept in a skip, which can be bulked up with other wastes prior to disposal of site.

Waste with a biodegradable element which are to be stored in Area B will be stored on the concreted yard area. In order that this concreted area is clearly delineated a line of tyres will be used to show the extent of the concreted yard area so that staff are aware of the limits of waste deposit and storage for biodegradable waste.

Inert waste due to their inherent characteristics may be stored off the concreted area when necessary on a hardstanding area of the site.

Following the processing operations the waste will have been sorted into two main fractions:- Fines and Hardcore. Other materials are also recovered including wood and some metals. These are bulked up along with materials of a same type recovered within the recycling yard area.

Hardcore and fines recovered through the above operations are stored on the stockpile locations shown on plan JJ-10/03-01. These materials are sold as secondary aggregates. The height of these stockpiles will generally be kept to 3m and in exceptional circumstances the stockpiles will reach a height of 5m.

All hardcore and fines sold from the facility shall be weighed prior to leaving the site and a record shall be kept in the form of a weighbridge ticket.

Non-conforming Wastes

As indicated on Drawing no JJ-10/03-1, a quarantine waste store with a maximum capacity of 20 m^3 will be situated in Area D. This store will be used to contain materials which are not sanctioned to be accepted at the site but have been delivered with other wastes and it has not been possible to return the load to the producer. The store will typically be used for paint tins, chemical drums and hazardous wastes other than bonded asbestos (eg batteries). The waste will be stored in a secure unit with bunding set at 110% of the delivered materials. Any materials which are identified as non-acceptable and placed in the quarantine store will be transferred to the appropriate disposal mechanism e.g. incineration or landfill within 7 working days. A record will be kept in the site diary of all rejected wastes.

4.230 WASTE QUANTITY MEASUREMENT SYSTEMS

A weighbridge is to be used at the site. The system will be computer controlled, recording all details of vehicles, skips and tonnages.

Duty of care documentation and copies of weighbridge tickets will be kept and maintained in an 'archive store' in the site office. This will be in addition to information kept on the computer system.

Other documentation will include a visitor's book, a site diary recording daily events, waste deliveries and the import of any unacceptable wastes and site visits with the Environment Agency and other interested parties.

4.301 STORAGE OF ASBESTOS WASTES

Use will be made of a dedicated asbestos store. A 14yrd³ container will be used which is clearly labeled and equipped with a rubber sealed door. The skip will be located within Area D shown on plan JJ-10/03-01.

Operatives wearing the appropriate gloves and masks will carefully remove any bonded asbestos cement sheets found in the tipped waste. If pieces of bonded asbestos cement are found in the waste, then that portion of the waste will be sprayed with water and the pieces, together with the waste that they are contained in, will be lifted and placed in the asbestos container.

In addition other clearly labeled, suitable skips of various sizes will be stored in Area D containing cement bonded asbestos. These skips shall be stored to facilitate bulking up of cement bonded asbestos, which will generally arrive on the site double bagged. If non bagged sheets are present precautions shall be taken in the form of spraying the sheets and handling them in a manner to avoid breaking the sheets.

4.410 SPECIFIED WASTE TREATMENT PROCESS-PLANT, EQUIPMENT & PROCEDURES

Although 800 skips and containers will be in circulation, the majority of these will be employed off site. Only a small number of skips and containers will be retained on site at the transfer station for the collection and transfer of waste to the final destination sites for landfill or recycling.

The skips and containers in use range in size from 2yrd³ miniskips to 40yrd³ containers. The vehicles used range from 7.5 tonnes to 44 tonne articulated trailers. The large vehicles will collect and transfer waste from the various sources, and in some instances, from the transfer station, e.g. for large quantities of construction/demolition waste. An eight wheeled tipper lorry will

be used for the construction/demolition waste and the other vehicles will utilise a range of flatbeds, bulk trailers and curtain siders.

Amber Services also utilise a static compactor contained within the materials sorting building Area E.

The following elements will be present on site, being ancillary services to the main operations, which will only take place within the materials sorting building ie Area E :

1. Shredding plant for the reduction of timber, plastic, tyres and others
2. Baling plant for baling recycled and waste materials
3. Cable stripper for preparation of household and industrial cables
4. Granulator for electric cables plastics and others
5. Shears for cutting material
6. Air compressor
7. Shot blast equipment for cleansing of skips
8. Welfare Facility including:
   - -shower
   - -toilet
   - -office
   - -phone system
   - -hand wash facilities
   - -changing area
9. Demarked area for storage of waste containers

As well as the above, the site will serve as an operating centre for forty vehicles. Associated with the vehicle operation will be the following:

1. Servicing and maintenance centre
2. Garaging
3. Storage of diesel fuel
4. Oil tank storage
5. Weighbridge for public use

Mobile plant will be used on site and may include but will not be restricted to the following:

1. Loading shovels
2. 360° loading grabs
3. Fork trucks
4. Mobile cranes
5. Static packers
6. Bulk waste vehicles
7. Picking lines
8. Road sweeper

For the operations in Area B in addition to the mobile plant there will be the screening plant-power screen for processing construction and demolition type wastes.

Adherence to a rigorous maintenance programme for equipment used on site will be of paramount concern.

When dust is likely to be produced during the loading of hardcore into vehicles there is also a hose with a sprinkler which can be used to damp the material down, which will reduce dust arisings. This can also be used with the perimeter sprinkler system.

6.020 CONTROL OF ODOURS

Measures will be implemented throughout the operational life of the site, to prevent and minimize the release of offensive odours from the site and beyond the site boundary.

All emissions from the sorting operations on site shall be free from site odours outside the site boundary. Prior to vehicles gaining access to the facility, it will be verified that the load will not create an odour problem if tipped. Any material which is likely to give rise to an odour problem will not be accepted at the site.

If an odour problem is sustained for a period greater than 24 hours, then further delivery of the waste shall cease. Once the source of the odour has been identified, the waste giving rise to the odour shall be removed from site or treated in such a manner to render it non-offensive. A record of the odour incident and the action taken to remedy the situation will be kept for inspection by the Environment Agency.

6.030 CONTROL OF NOISE

Measures shall be implemented throughout the operational life of the site, to control and minimize the levels of noise beyond the site boundary.

Daily inspections by the site manager will be carried out to ensure that noise does not become an issue of concern at the site. In the event of excessive

Amber Services **30/07/2012**

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SIMS METAL MANAGEMENT

DRY BRIGHT WIRE	**4500**	no tinned ends, grease, hdw, tarnished, foil
CLEAN COPPER TUBE/HDW	**4375**	can cotain some hard drawn wire
98-96% COPPER	**4175**	no brass/Fe, burnt residue, loose dirt
CU GRANULES	**4450**	
COPPER TANKS (BRAZIERY)	**3650**	free from elements/scale
ELEMENTS	**1800**	
MIXED PYRO	**2000**	

BRASS	**2740**	no Fe attachments, water pumps, swarf,
BRASS CU RADS	**2440**	no Fe, plastic
BRASS SWARF	**2240**	max 2% oil/moisture/fe
PB SOLIDS (SWARF LESS £300)	**3250**	no Fe
GM SOLIDS (SWARF LESS £300)	**3125**	no Fe
AB SOLIDS (SWARF LESS £500)	**2450**	no Fe

OLD ROLLED (MAX 1% ATTACHMENTS)	**800**	no Fe/wood/plastic/thermal break/ubcs
CAST	**850**	max 2% Fe attachments
CUTTINGS (FOR BALING)	**880**	max 8mm thickness
CUTTINGS (SOLIDS)	**825**	
WHEELS (CLEAN)	**1000**	no Fe/lead/zinc/valves
WHEELS (MIXED DIRTY/CLEAN)	**800**	
ALI/CU RADS (CLEAN)	**1900**	no Fe
LITHO	**900**	
ALI SWARF	**400**	no contaminants, max 10% moisture/oil

HOUSEHOLD CABLE (MIN 40% Cu)	**1540**	no plugs, transformers, loose wood/Fe/plastics
LOW GRADE CABLE (MIN 28% Cu)	**975**	no plugs, transformers, loose wood/Fe/plastics
ALI CABLE	**350**	no loose Fe, armour Fe
MOTORS	**570**	no compressors, excess Fe, oil, wood

18/8 STAINLESS (SWARF LESS £200)	**900**	no Fe, no chrome iron
316 STAINLESS (SWARF LESS £250)	**1350**	must be stamped

LEAD	**920**	no wheel weights, wood, Zn, Fe, tar
ZINC	**500**	no wood, steel
BATTERIES (LEAD ACID ONLY)	**440**	must not be filled over top of battery box

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