

**Green Steel Works Limited**  
Unit 6, Capital Valley Eco Park, Rhymney, Gwent NP22 5PT



## **Environmental Management System Plan (EMS 2019)**

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## **INTRODUCTION**

Green Steel Works Limited has prepared this Environmental Management System (EMS) for the operation of Household, Commercial and Industrial Waste Transfer Station with treatment.

## Site description and characterisation of risk source

### 1.1 Specified site and waste management operations

Site address:- **Green Steel Works Limited**  
**Unit 6, Capital Valley Eco Park, Rhymney, Gwent NP22 5PT**

The site location and licensed boundary are shown on APPENDIX A

#### 1.1.1 Classification of specified waste management operations and permitted activities.

The following waste management operations are carried out at Green Steel Work Ltd (the operator) recycling Facility, Unit 6, Capital Valley Eco Park Rhymney, Gwent NP22 5PT (the site).

**SR2008 No3 - household, commercial and industrial waste transfer station with treatment**

Table 2.1 activities	
Description of activities	Limits of activities
<b>D15:</b> Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	Treatment consisting only of manual sorting, separation, screening, baling, shredding, crushing or compaction of waste into different components for disposal, (no more than 50 tonnes per day) or recovery.  No more than a total of 50 tonnes of intact and shredded waste vehicle tyres (waste codes 16 01 03 and 19 12 04) shall be stored at the site.
<b>R13:</b> Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	
<b>D14:</b> Repackaging prior to submission to any of the operations numbered D1 to 13	
<b>D9:</b> Physico-chemical treatment not specified elsewhere in Annex 11A which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12	
<b>R3:</b> Recycling/reclamation of organic substances which are not used as solvents	
<b>R4:</b> Recycling/reclamation of metals and metal Compounds	
<b>R5:</b> Recycling/reclamation of other inorganic Materials	

## **1.2 Brief description of Facility**

This section should be read in conjunction with (site layout drawing) which can be found in APPENDIX A.

Waste items will be delivered to the Facility by means of road transport. Carriers will be required to hold a current Carriers of Waste certification.

On arrival at the Facility items will be stored in the Initial Storage and Classification Area.

In general, items will be inspected on arrival. All hazardous components will be removed and sent for recycling/treatment, disposal at a suitably licensed facility. The metals will be removed and stored prior to recycling. The remaining plastics will be shredded and reprocessed.

All material delivered to the facility will be stored in compliance with the relevant Natural Resources Wales guidance. The processing equipment will be housed inside the building to provide maximum security and minimise any environmental impact.

## **1.3 Excluded and Exempt Activities**

There are a number of activities within the permitted area of this facility; these activities are controlled under the relevant Permit activities.

## **1.4 Specified Site Operations**

The site is located within the Capital Valley Eco Park complex accessed from the A469.

### **1.4.1 Initial Storage and Classification Area**

All waste materials will be separated into their designated areas.

Items will remain in the delivery area prior to either being processed on site or removed off site by an appropriate transport company for further treatment, reprocessing or disposal.

All other waste will be stored in the designated storage areas prior to treatment on site and in accordance with Natural Resources Wales guidelines.

### **1.4.2 Manual separation**

On arrival at the facility all waste items will be unloaded and stocked in the respective storage bays, the items will be visibly inspected and any material or waste that is not permitted at the facility will be removed and placed in the waste bin provided.

The waste items will be separated into the relevant categories, the household, commercial and industrial waste will be treated which consists only of manual sorting, separation, screening, bailing, shredding, crushing or compaction of waste into different components of waste into different components for disposal, (no more than 50 tonnes per day) for recovery. The recyclable materials will be removed from site for recovery and loaded onto a collection vehicle so they can be taken to an alternative and an appropriate processing facility.

#### **1.4.3 Storage of processed materials**

All materials will be stored in the designated storage areas prior to loading onto the collection vehicles.

#### **1.4.4 General waste**

A skip or bin will be provided so that any un-authorised or odorous waste can be stored, these skips or bins will have lids to prevent the waste escaping and reduce any odour nuisance. They will be emptied on a regular basis and a record of waste collections will be kept, detailing the waste company's information and where the waste is transported to with the relevant EWC codes.

#### **1.4.5 Quarantine area**

A designated area will be established so that any non-conforming waste can be stored prior to its removal from site, this area will have a secure area so that it prevents the waste stored in it from contaminating the environment and other waste and materials on site.

### **1.5 Permitted wastes, quantities and storage durations**

The general types and quantities of waste that may be held at the facility as per the specific Permit of the Standard Rules SR2008 No3.

If a waste type is delivered to the site that is not on the list the operator will contact Natural Resources Wales to determine if it is permitted at the facility. If the waste is not allowed a suitable disposal option will be agreed with Natural Resources Wales, the person who produced the waste and the site operator.

### **1.6 Annual tonnage of waste accepted at the Facility with condition of permits.**

Transfer Standard Rules SR2008 No3 will be less than 75,000 tonnes per year.

### **1.7 Hours of Operation**

The hours of operations will be in compliance with the local planning agreement.

### **1.8 Operations of mobile plant and associated equipment**

Typical mobile plant and equipment that will be used at the facility will be forklift trucks with forks, and bale clamps, front-loading shovels. Operators of these vehicles will be trained in their use. All vehicles will be serviced in accordance with the manufacturer's directions.

## **Section 2 Site engineering for pollution prevention and control**

### **2.1 Engineered site containment and drainage systems**

The designated working area will be within Unit 6 of Capital Valley Eco Park, this building can be securely locked when they are unmanned.

The Building has fully engineered concrete floors that are suitable for the purposes of the operations.

The building and floors will be inspected every week to insure there are no defects. Should any defects be found, temporary repairs will be carried out to insure the integrity and security of the facility; permanent repairs will be carried as soon as practicable. Records of damage and repair will be kept in the site diary.

There is a suitable rest room/mess facility available with a WC for the workforce.

### **2.2 Drainage systems**

There are no open drains within the building used for the facility and all material will be stored internally on skips, containers, bins, pallets on the concrete floor. There will be no leakage from the material into the drainage system.

Drainage from the mess rooms, WC's are connected to the foul sewer system within the Eco Park's own system which discharges into the private drains of K J Property Services and then into the local public foul sewer.





## **Section 3 Site Infrastructure**

### **3.1 Provision of Site identification board**

A site identification board will be erected at a prominent position, so it is visible to everyone who visits the site, it will include the following information:

- Name of facility
- Name of permit holder/site operator
- Contact address for permit holder/operator
- Operational hours
- Permit numbers
- Emergency site telephone contact number
- Natural Resources Wales office and emergency telephone
- 0300 065 3114 – 0300 065 3000

### **3.2 Site Cleanliness**

All waste materials handled at the facility are broken down and all the recycling processes are carried out within the building and controlled there is likelihood of material being tracked off the site or blown off. However, in the event that material is spilt on the site access roads or public highway the material will be cleared as soon as site staff have been notified.

### **3.3 Site Security**

All access points at the facility can be closed and locked when it is un-manned.

During the times when the facility is manned, visitors will be required to sign the visitor's book, which is kept in the main site office. During usual operating conditions all doors that are not required for access will be closed.

The Waste facility is within a secure building as explained earlier, and the site main gates are locked every evening, K J Property Investment has an overnight security surveillance team who can be contacted in case of an emergency, the park is bounded by 1.8 high security fencing. The fence is checked regularly by K J Property Investments staff and any repairs are carried out promptly.

## **Section 4 Site operations**

#### **4.1 Control of mud and debris**

All materials that may be spilled will be collected and placed in the appropriate storage container or area. There should be no escape of debris from the facility. Daily checks will be made to ensure all mud or debris is cleaned from roads and surfaces in the appropriate manner.

#### **4.2 Potentially polluting leaks and spills**

All equipment is sited on concrete hardstanding and inside the buildings, there is no requirement for any drainage for the operations.

All waste and recovered material will be stored in secure containers or in the designated storage areas. In the event of any spillage of liquids at the facility, it will be treated as an emergency and as such the Emergency Plan (see Appendix B) will be brought into effect. Sufficient absorbent granules or spill kits will be stored on site to deal with the leak any spillage of oils or liquids.

#### **4.3 Equipment and materials for cleaning up leaks and spillages**

Absorbent granules, spill kits will be stored onsite to deal with any spillage of liquids. These materials will be stored in a manner to prevent them becoming hydrated.

The absorbent material following use will be cleared by means of brushes and shovels and stored in suitable containers prior to removal off site to an appropriately approved disposal facility. A record of the material removed will be kept in the site office.

#### **4.4 Fires on site**

In the event of a fire on site the Emergency Procedure will be initiated.

The local fire brigade will be contacted in the case of a large fire that could not be dealt with by the personnel and equipment on site.

During any incident of fire, the facility will be closed and evacuated leaving only those personnel who are dealing with the fire. When the local fire brigade is on site the Site Manager or Assistant will provide the necessary assistance.

All fire will be recorded in the site diary and Natural Resources Wales will be informed within 48 hours of any incident.

## **Fire prevention and control**

### **4.4.1 Fire fighting/suppression equipment and materials**

The site will have a sufficient number of suitable types and sizes of fire extinguishers. These extinguishers will be located at various points around the site so that they are easily accessible in the event of a fire. The extinguishers will be of a type capable of dealing with electrical, oil and combustible material fires. The minimum size of the extinguishers will be 7.5kg and will be checked annually by a qualified person.

### **4.4.2 Procedures for the prevention of fires**

A number of procedures are undertaken on site to reduce the possibility of fires starting. The whole site is designated as a No Smoking area.

No 'Hot Working' will be permitted on site without a 'Permit to Work' being issued.

Combustible materials such as waste cardboard and paper will be stored in appropriate waste containers and not left uncontained around the facility.

### **4.4.3 Procedures to be followed when a fire is detected**

In the event that a fire is detected the 'Emergency Plan' and 'Fire Procedure' shall be followed.

### **4.4.4 Records of waste inputs and outputs**

All waste brought onto the site will be recorded on the Company's record sheets. The person/company who delivers the materials to the site must be a registered carrier of waste and have the correct waste transfer information with them, these records are to comply with Section 34 of the EPA 1990.

Copies of these records will be available to Natural Resources Wales on request.

Material that are removed from site will also be recorded and the destination recorded. The quantity of each load will be checked on the weighbridge within the site or weighing scales within the facility. Records will be kept in the site office and quarterly summaries will be sent to Natural Resources Wales.

Only wastes described in this plan will be accepted at the facility. Any other waste will be rejected, and the carrier instructed to remove the load from the facility. All waste will be checked for compliance purposes and if approved will be placed in the appropriate storage bay.

#### **4.4.5 Waste quantity measurement**

The method of measurement of material delivered to the facility and material removed will be based on the type material, they will conform to the standards used by Natural Resources Wales.

### **Section 5 Pollution Control, Monitoring and Reporting**

#### **5.1 Environmental Monitoring**

The Risk Assessment prepared for the facility conclude that the risks posed by operations to the environment are minimal and the control measures that will be in place with daily inspection sheets, including the engineered containment are sufficient. Even though this is in place there will still be a routine environmental monitoring.

The operator will carry out any occasional environmental monitoring Natural Resources Wales may require or will allow officers of Natural Resource Wales access to the facility to carry out their own environmental monitoring.

### **Section 6 Amenity Management and Monitoring**

#### **6.1 Control, monitoring and reporting of dust, fibres and particulates**

No waste will be accepted that consists or contains significant proportions of dust, fibres or particulates.

The site supervisor will undertake visual monitoring for excessive dust, fibres and particulates throughout the working day.

Details of all monitoring and remedial actions taken will be recorded in the site diary.

#### **6.2 Controls of odours**

Due to the nature of the materials handled on site and that all operations are within the buildings there is little potential for malodorous emissions.

Should any of the materials become malodorous they will be immediately removed from the facility.

No waste consisting of or containing substances with significant hazard of odour will be accepted at the site only what is agreed to on the permit.

### **6.3 Control of pest infestation**

The waste type that is stored on site will be inspected daily for pests or the presence of vermin and insects by the site supervisor and therefore prevent any infestation.

A specialist contractor will be employed if a pest infestation is found, they will be responsible for the eradication of the infestation.

Details of the site inspections and any control measures undertaken, including types and quantities of pesticides used will be recorded in the site diary.

### **6.4 Control of litter**

Litter is not anticipated to be an issue at the facility as none of the waste should have any loose litter on them. All vehicles taking waste from the site will either be sheeted or be in enclosed containers to prevent any spillage on roads and highways.

Details of all site inspections and cleaning schedules will be recorded in the site diary.

### **6.5 Noise**

All processing equipment is contained within the buildings therefore, noise will not be an issue. To minimise noise outside the buildings deliveries and export of materials will be within the designated times stated in the local planning consent.

### **6.6 Technical Competence**

The site will be manned during the receipt of waste and removal of materials with at least two operatives. During the processing period the facility will be manned by three operatives. The Director Milo Thomas is currently obtaining the required WAMITAB certification for technical Competent Manager which is required for the permit.

#### **6.6.1 Management and supervision for the Facility**

The facility will have an appointed manager. The manager will meet the requirements of the Natural Resources Wales for Technical Competence. In addition, an assistant manager will be based on site who will take over the responsibilities of Technical Competence should the manager be unavailable.

The site will be manned with enough personnel so that the operations of the waste acceptance, storage and processing are undertaken safely and efficiently and ensure compliance with the requirements of the Permit and the Health & safety Executive (HSE).

Any changes to the named competent personnel will be forwarded to Natural Resources Wales for approval and any changes only made when agreement has been received from the Agency.

### **6.6.2 Training requirements**

All site personnel will be trained in the use of equipment and or plant that they operate. Such training will include the following:

- Specific training in the use of equipment and plant offered by the manufacturers.
- Operational training by outside organisation for safe use of equipment.
- General Health and Safety training.
- Onsite training by Company staff.

All training records are logged on a google spreadsheet with access to all Managers showing start and expiry dates.

## **Section 7 Site Records**

### **7.1 Security and availability of records**

All records relating to the operation of the site will be kept in the facility's office.

The site records will contain a copy of the waste permit this Plan and site diary.

The site diary will contain a minimum detail as follows:

- Non-conforming waste acceptance at the facility.
- Site incidents, accidents and emergencies.
- Site inspections and any corrective actions taken.
- Schedule maintenance and cleaning.
- Visitors on site.

All other records will be available for inspection by the Natural Resources Wales officers as required. Requests for all relevant information must be made directly to the manager.

**Green Steel Works Limited**  
Unit 6, Capital Valley Eco Park, Rhymney, Gwent NP22 5PT

## **Appendix A**

### **Site Plan**



## **Appendix B**

### **Emergency Plan**

## Emergency procedures for the Recycling Facility

### DEFINITION OF AN EMERGENCY

Emergencies covered by this procedure include the following: -

- outbreak of fire in plant
- catastrophic failure of plant
- spillage or leakage of
- oils
- other uncontrolled situations likely to result in pollution or serious risk to health, safety or the environment.

Any of the above, or any situation likely to lead to any of the above, is to be treated as an **EMERGENCY** and **MUST** be dealt with according to this procedure.

### IMMEDIATE ACTION

Any person detecting an **EMERGENCY** must ensure the safety of themselves and other people as a first priority. If there are risks to safety, the site must be completely evacuated until expert help is obtained.

Before taking any action to deal with the **EMERGENCY**, expert assistance **MUST** be sought using the telephone numbers listed below.

Once expert assistance has been requested, the most senior person operating the plant should take charge as **Acting Incident Officer** until expert assistance arrives at the site.

The **Acting Incident Officer** should ensure that the area surrounding the plant is evacuated of all non-essential personnel and ensure that no one enters the area surrounding the plant without his/her express permission.

If safe to do so, the **Acting Incident Officer** should arrange for a brief visual inspection of the plant to determine whether immediate action is necessary to contain the **EMERGENCY** or lessen the risks to health, safety or the environment. Once this inspection has been completed, the **Acting Incident Officer** should determine whether it is safe to take any action or whether it should be delayed until help arrives. If there is any doubt, **NO ACTION SHOULD BE TAKEN**.

## **DEALING WITH THE EMERGENCY**

If the emergency services are in attendance the **Incident Controller** will either be a member of the **Police or Fire Service (as appropriate)**. If the **Natural Resource Wales** is in attendance the **Acting Incident Officer** should determine whether the **Agency** wish to take charge of the situation. Otherwise, the most senior member of staff will take charge as the **Incident Controller**.

The **Incident Controller** must obtain a verbal report from the **Acting Incident Officer** as to the circumstances of the emergency and persons/ organisation contacted to provide expert assistance.

The **Incident Controller** must establish an **Incident Control Point** at a suitable position so that everyone who is involved with the incident has clear access. The **Incident Control Point** should always have access to a working telephone during the emergency.

The **Incident Controller** must assess the available information as to the circumstances of the **Emergency** and should decide whether additional help is required, if so arrange for additional help forthwith.

If action can be taken to deal with the emergency, the **Incident Controller** must ensure that he has assessed the risk to health and safety before allowing such action to be undertaken. If there is any doubt no action should be taken.

### **Contact Numbers:**

**Director: Milo Thomas – 07880 551 806**

### **In Case of Fire or Rescue of Trapped Personnel:**

**Local Fire Service: - Dial Emergency Number 999**

**In Case of leakage of Liquids that cannot be dealt with by plant personnel:**

**Natural Resource Wales: 0300 065 3000**

**Fire Services: As above**

**Health and Safety Executive: 0345 300 9923**

**Ambulance Service/Fire and Rescue Service: 999**

## **Appendix C**

### **Permitted Waste**