

GLJ Environmental Limited

SR2011 No3
Vehicle Storage, depollution & dismantling
(authorised treatment) facility

Environmental Management Plan (EMS)

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INTRODUCTION

GLJ Environmental Limited has prepared this Environmental Management Plan (EMS) for the operation of the standard rules **SR2011 No3** – vehicle storage, depollution & dismantling (authorised treatment) facility at Unit 5-11, Pen y Fan Industrial Estate, Fern Close, Crumlin NP11 3EH.

Site description and characterisation of risk source

1.1 Specified site and waste management operations

Site address: - GLJ Environmental Limited,
Units 5-11 Pen y Fan Industrial Estate,
Fern Close, Crumlin NP11 3EH

The site location and licensed boundary are shown on APPENDIX A

1.1.1 Classification of specified waste management operations

The following waste management operations that shall be carried out at GLJ Environmental Limited (the operator) recycling Facility, Units 5-11, Pen y Fan Industrial Estate, Fern Close, Crumlin NP11 3EH (the site) as stated on the SR2011 No3 – Vehicle storage, depollution & dismantling (authorised treatment) facility.

Description of activities

D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).

R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).

R4: Recycling/reclamation of metals and metal compounds.

R5: Recycling/reclamation of other inorganic materials.

Limits of activities

Treatment consisting only of depollution waste motor vehicles and sorting, separation, bailing, compacting, or cutting using hand-held equipment only, of waste into different components for recovery.

There shall be no treatment of lead acid batteries, other than sorting and separating from other wastes.

Wastes shall be stored for no longer than 1 year prior to disposal and 3 years prior to recovery.

The maximum quantity of hazardous waste treated for disposal or recovery shall not exceed 10 tonnes per day. This does not include the manual depollution and dismantling of waste motor vehicles.

The maximum quantity of hazardous waste stored at the site shall not exceed 50 tonnes at any one time of which no more than 10 tonnes shall be stored for disposal. This does not include waste motor vehicle awaiting manual depollution.

No more than 25 tonnes of intact waste vehicle tyres (waste code 16 01 03) shall be stored at the site.

1.2 Brief description of Facility

End of Life Vehicles 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 buildings 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 and exemption activities of **SR2011 No3**.

1.4 Specified Site Operations

The site is located within the Pen y Fan site complex and is accessed from A marked in Red on APPENDIX A.

1.4.1 Initial Storage and Classification Area

All End of life Vehicles will be separated.

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.

1.4.2 Manual separation

On arrival at the facility all End of Life Vehicles items will be unloaded and stocked in the respective storage areas, 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 site will use IDIS or other manufacturers guidance to obtain depollution on the ELV, if required, the ELV would be inspected for an airbag and set heater control to maximum, materials that would be removed are batteries, fuel, oil, filler caps, wheels, tyres, balance weight from wheels.

Liquids such as petrol will be separated at a distance to protect the stored petrol from potential ignition sources.

All items from the End of Life Vehicles will be separated into the relevant category; i.e. are batteries, fuel, oil, filler caps, wheels, tyres, balance weight from wheels, containers will be clearly labelled so that people are aware of their contents and hazards, all the components and the car carcass will be removed from site for further recovery of metals.

1.4.3 Storage of processed materials

All materials will be stored in the designated storage areas, lead acid batteries will be stored in containers with an impermeable, acid resistant base and kept inside to prevent ingress of water, all liquid types fuel, oils, brake fluids and water based fluids will be stored separately, this will be recorded and the information of the specialist recovery company for disposal will be provided to Natural Resources Wales if so required.

1.4.4 General waste

A skip and or bin will be provided so that any un-authorised or odorous waste can be stored. They will be emptied on a regular bases into A skip marked general waste in the permitted area and a record of waste leaving the site, 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 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 types

A full list is given in Appendix C of the types of waste that may be held at the facility.

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.

All waste entering and leaving the site will be submitted with the quarterly Waste and hazardous waste returns.

1.6 Annual tonnage of waste accepted at the Facility

The total quantity of waste than can be accepted at a site as stated under the SR2011 No3 – Vehicle storage, depollution & dismantling) authorised treatment) facility will be less than 5,000 tonnes a 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 and 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 GLJ Environmental Limited, Unit at Pen y Fan Industrial Estate, Fern Close, Crumlin NP11 3EH.

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 in ensure 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.

2.2 Drainage systems

There are no open drains within the building used for the storage of ELV's, Batteries, WEEE liquids etc., the items will be stored internally in containers, bins, pallets on the concrete floor. There will be no leakage from the material into the drainage system.

Drainage from the mess rooms, weighbridge, office for WC's are connected to the foul sewer system within the GLJ Environmental own system which discharges to the local public foul sewer.

The sealed drainage system uses impermeable service, except where they may lawfully be discharged, to foul sewer, all liquids entering the system are collected from the sealed sump and collected via a specialist recovery company for disposal at 6 monthly intervals, records of the fluids collected and information can be provided to Natural Resources Wales.

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 materials handled at the facility are broken down and all the recycling processes are carried out within the controlled areas, if there is likelihood of material being tracked off the site or blown off, in this the event if the 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. There are camera's around the perimeter of the premises and inside the weighbridge and is controlled via Secure-it 24hrs, also Management has access via laptops and telephones outside of working hours.

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.

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 ELV's 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. Where possible the leak or spilt oil will be soaked up by using a spill kit.

If oil soaks into the ground and its damaged

4.3 Equipment and materials for cleaning up leaks and spillages

In the event of an oil spill, the site operators will take immediate action to stop oil from entering drains and watercourses. 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 site will notify Natural Resources Wales if there has been a spillage to watercourses or ground soil and if necessary, soil samples may have to be taken.

All oil and fluids will be stored in suitable containers labelled 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 End of Life Vehicles brought onto the site will be recorded on the Company's record sheets. The person/company who delivers the materials to 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.

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 Park or on 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, 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 or 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 is unlikely to attract pests and therefore any infestation.

The facility will be inspected for the presence of vermin and insects by the site supervisor.

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. All vehicles taking waste from the site will be checked 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

There is regular monitoring of noise at different places and times, the equipment is maintained regularly to reduce noise levels, plant equipment and vehicles are switched off when not in use, consideration is taken not to work during evenings and weekends. 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 reception of End of Life Vehicles and removal of materials with at least two operatives. During the processing period the facility will be manned by three operatives. The appointed facility manager will obtain the required level of WAMITAB certification within 2 years of the issue of the permit, however on an interim basis Mr Gareth Jones will be the acting competent person until the facility manager has obtained his license, Mr Gareth Jones Continuing Competence Certificate number is 5139209 and expires 19/02/2021.

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 sufficient 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 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.

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.

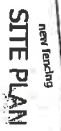
The site diary will contain a minimum detail as follows:

- 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.

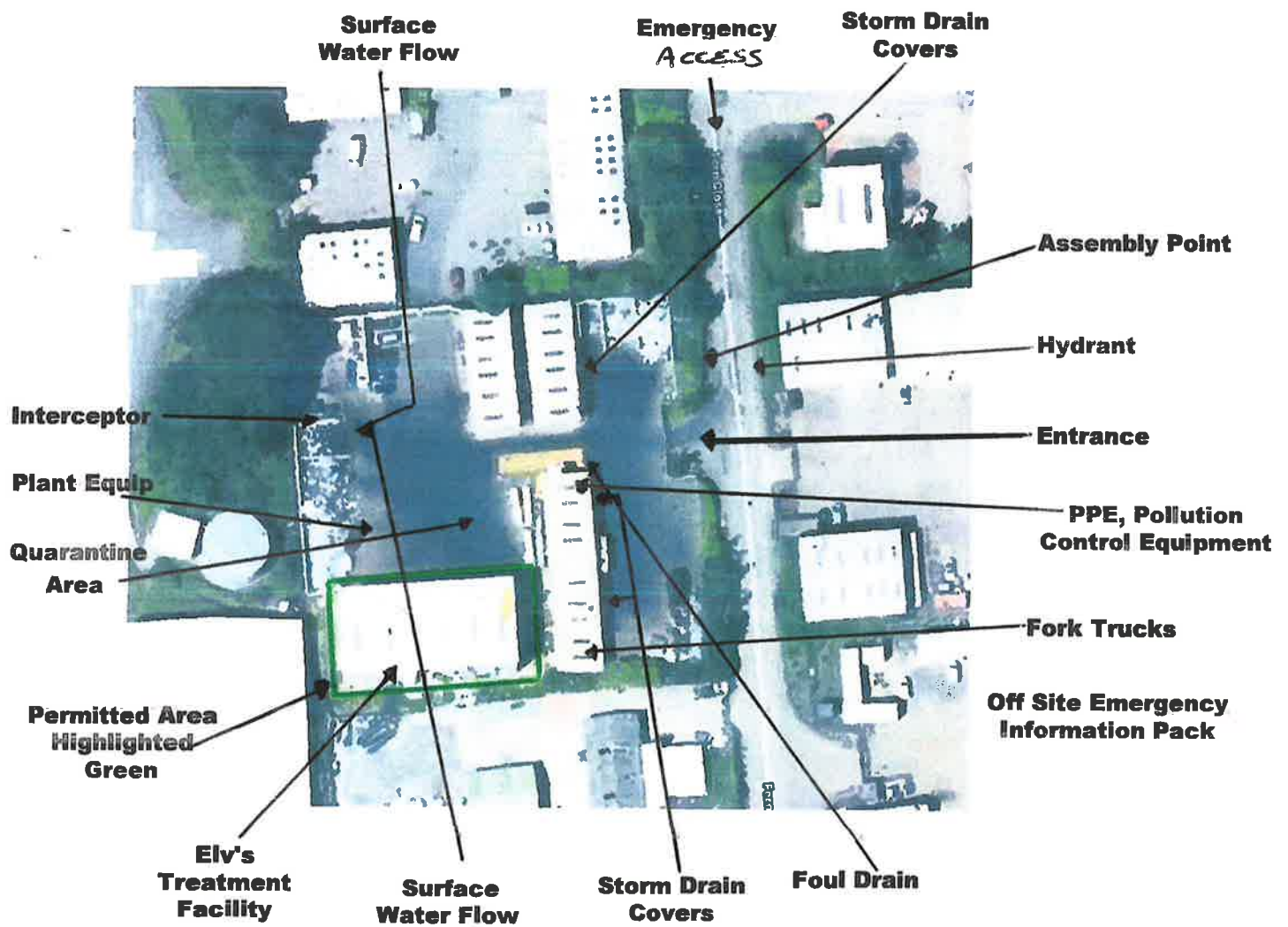
Appendix A

Site Plan



1. Author(s) 2. Title 3. Journal 4. Volume 5. Issue 6. Date 7. Pages	8. Abstract 9. Keywords 10. Summary 11. Conclusions 12. References
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Appendix A



Appendix B

Emergency Plan

Emergency procedures for Elv's 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 have access to a working telephone at all times 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:

Site Manager: 07876776859

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

Permitted Waste Types

The following table lists the European Waste Catalogue (EWC) Codes for the types of wastes which shall be accepted on site.

EWC Code	Description
16 01	End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13,14,16 06 and 16 08)
16 01 03	End of Life Tyres
16 01 04	End of Life vehicles*
16 01 06	End of Life vehicles, containing neither liquids nor other hazardous components
16 01 07	Oil filters*
16 01 11	Brake pads containing asbestos*
16 01 12	Brake pads other than those mentioned in 16 01 11
16 06	Batteries and accumulators
16 06 01	Lead batteries*
16 06 05	Other batteries and accumulators

Appendix D

**Risk Assessment as per the Generic risk
assessment for standard rules set number
SR2011 No 3 v2.0**

Generic risk assessment for standard rules set number SR2011No3 v2.0

Standard Facility:

Waste Operation: Vehicle Depollution & Dismantling (Authorised Treatment) Facility

Location:

Applies to all potential locations.

Location of environmentally sensitive sites (km / m):

Greater than 200m (see below)

Risk assessment carried out by:

Natural Resources Wales

Date:

25-Jun-12

The scope of the permit and associated rules is defined by the following risk criteria:

- Parameter 1 Permitted activities - storage of waste motor vehicles and treatment consisting only of depollution of waste motor vehicles and sorting, separation, baling, compacting or cutting of waste using hand held equipment only into different components for recovery (R13, R4 and R5).
- Parameter 2 Permitted waste types - End-of-life vehicles, tyres, brake pads, oil filters and lead-acid batteries.
- Parameter 3 Quantity of waste accepted at the facility: <5,000 tonnes per annum, including a maximum 10 tonnes per day of hazardous waste for disposal.
- Parameter 4 The quantity of hazardous waste stored at the facility for disposal shall be less than 10 tonnes.
- Parameter 5 The quantity of tyres stored at the facility shall not be more than 25 tonnes.
- Parameter 6 Lead acid batteries shall be stored in containers with an impermeable, acid resistant base and a lid to prevent ingress of water.
- Parameter 7 All waste shall be treated on an impermeable surface with sealed drainage system.
- Parameter 8 All wastes shall be stored on an impermeable surface with sealed drainage system, except for uncontaminated plastic, glass and ferrous and non-ferrous metal wastes arising from the treatment of end-of-life vehicles which may be stored on hard standing.
- Parameter 9 The only point source discharges to controlled waters or groundwater, are surface water from the roofs of buildings and from areas of the facility not used for the storage or treatment of wastes.
- Parameter 10 The permitted activities shall not be carried out within 200m of a European Site (candidate or Special Area of Conservation, proposed or Special Protection Area or Ramsar site) or a Site of Special Scientific Interest (SSSI).
- Parameter 11 The activities are not carried out predominantly using a limited number of the permitted waste types in a manner which significantly increases any of the risks compared to the generic operation of this type of facility, for example predominantly storing wastes which present a significant increase in fire risk.
- Parameter 12 The activities shall not be carried out within Groundwater Source Protection Zone 1, or if a Source Protection Zone has not been defined then within 50m of any well, spring or borehole used for the supply of water for human consumption.. This must include private water supplies

Abbreviations:

SR - Standard Rule

SR (emissions of substances not controlled by emission limits) - emissions of substances shall not cause pollution..... with appropriate measures: all storage and treatment on an impermeable surface with sealed drainage system, except for uncontaminated plastic, glass and ferrous and non-ferrous metal On hard standing ... or on impermeable surface with sealed drainage, lead acid batteries in containers with an impermeable, acid resistant base and a lid

Data and information				Judgement			Action (by permitting)	
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management
								Residual risk

What is at risk? What do I wish to protect?	What is the agent or process with potential to cause harm?	What are the harmful consequences if things go wrong?	How might the receptor come into contact with the source?	How likely is this contact?	How severe will the consequences be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment).
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioeroso(s)).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Medium	Medium	Medium	Permitted waste types do not include dusts, powders or loose fibres so only a medium magnitude risk is estimated. There is potential for exposure if anyone is living or working close to the site (apart from the operator and employees)	SR - emissions of substances not controlled by emission limits SR (if required) - emissions management plan.	Low
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Medium	Low	Low	Local residents often sensitive to dust.	As above	Very low
Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Medium	Medium	Medium	Local residents often sensitive to litter.	As above. Appropriate measures could include clearing litter arising from the activities from affected areas outside the site.	Very low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Medium	Medium	Medium	Road safety, local residents often sensitive to mud on roads.	As above. Appropriate measures could include clearing waste, litter and mud arising from the activities from affected areas outside the site.	Low
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Low	Low	Local residents often sensitive to odour, however permitted waste types have low odour potential.	SR - emissions shall be free from odour SR (if required) - odour management plan.	Low
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Medium	Medium	Medium	Local residents often sensitive to noise and vibration	SR - emissions shall be free from noise and vibration..... SR (if required) - noise and vibration management plan.	Low

Local human population	Scavenging animals and scavenging birds	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	Air transport and over land	Low	Medium	Low	Permitted wastes unlikely to attract scavenging animals and birds but may become nesting / breeding sites.	SR - emissions of substances not controlled by emission limits (including those from scavenging animals, scavenging birds and other pests) shall not cause pollution.	Very low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Low	Medium	Low	Permitted wastes unlikely to attract pests.	AS above	Very low
Local human population and local environment	Flooding of site	If waste is washed off site it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Low	High	Medium	Liquid hazardous wastes washed off site will add to the volume and hazard of the local post-flood clean up workload.	SR - management system (will include flood risk management). Release of liquid wastes restricted by SR - maximum hazardous waste storage 10 tonnes and SR - All liquids shall be provided with secondary containment... (applies to wastes and non-wastes such as fuels).	Very low
Local human population and / or livestock after gaining unauthorised access to the waste operation	All on-site hazards: wastes, machinery and vehicles.	Bodily injury	Direct physical contact	Medium	Medium	Medium	Site security measures at these facilities are normally good to prevent theft. Although some permitted waste types are hazardous, a medium magnitude risk is estimated.	SR - activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access). Access to liquid wastes restricted by SR - maximum hazardous waste storage 10 tonnes and SR - All liquids shall be provided with secondary containment... (applies to wastes and non-wastes such as fuels).	Low

Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff, firefighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Medium	Medium	Although some permitted waste types are hazardous and some are flammable, a medium magnitude risk is estimated.	As above. SR - management system (will include fire and spillages). SR - tyre storage no more than 50 tonnes.	Low
Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff or firefighters. Pollution of water or land.	As above.	Medium	Medium	Medium	Risk of accidental combustion of waste is moderate.	As above (excluding comments on access to waste). Permitted activities do not include the burning of waste.	Low
All surface waters close to and downstream of site.	Spillage of liquids, leachate from waste, contaminated rainwater run-off containing suspended solids.	Acute effects: oxygen depletion, fish kill and algal blooms	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Medium	High	High	Permitted waste types include hazardous liquids so a high magnitude risk is estimated. There is potential for contaminated rainwater run-off from wastes stored outside buildings especially during heavy rain.	SR - maximum hazardous waste storage 10 tonnes. SR - All liquids shall be provided with secondary containment... (applies to wastes and non-wastes such as fuels). Run-off restricted by SR (emissions of substances not controlled by emission limits).	Low
All surface waters close to and downstream of site.	As above	Chronic effects: deterioration of water quality	As above. Indirect run-off via the soil layer	Medium	High	High	Permitted waste types include hazardous liquids so harm may not be temporary and reversible.	As above	Low
Abstraction from watercourse downstream of facility (for agricultural or potable use).	As above	Acute effects, closure of abstraction intakes, water drains, ditches etc. then abstraction.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Medium	High	High	Permitted waste types include hazardous liquids so a high magnitude risk is estimated. Watercourse must have medium / high flow for abstraction to be permitted, which will dilute contaminated run-off.	As above. Also the activities shall not be carried out within Groundwater Source Protection Zone 1, or if a Source Protection Zone has not been defined then within 50m of any well spring or borehole used for the supply of water for human consumption.	Low
Groundwater	As above	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Medium	High	High	There is a potential for contaminated rainwater run-off or leakage from permitted waste types.	As above. Also the activities shall not be carried out within Groundwater Source Protection Zone 1, or if a Source Protection Zone has not been	Low

Local human population	Contaminated waters used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion	Low	Medium	Low	Unlikely to occur, but might restrict recreational use.	SR - emissions of substances not controlled by emission limits... SR (if required) - emissions management plan.	Very low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Low	Medium	Low	Waste operations may cause harm to and deterioration of nature conservation sites.	SR - activities shall not be carried out within 200m of a European Site or SSSI. (Distance criteria as agreed with Natural England/Countryside Council for Wales).	Low

Notes: Red triangle indicates comment containing supporting information

Yellow columns contain drop down menus that allow automatic evaluation of risk in green column

