

Waste Recycling Facility  
TG Enviro  
Cefn Graianog Quarry  
Llanllfni  
Caernarfon  
North Wales  
LL54 6SY

# Environmental Management System



2025

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## 1.0 GENERAL CONSIDERATIONS

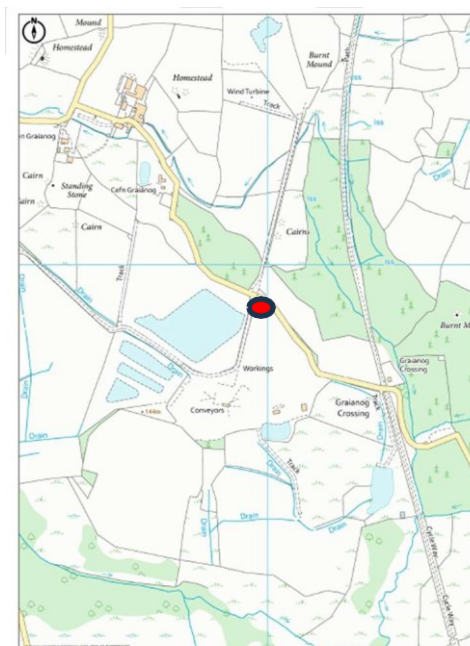
### 1.1 Site operator/ licence holder

- 1.1.1 TG Enviro operates a quarry and waste management recycling facility located at Cefn Graianog Quarry, Llanllfni, Caernarfon, North Wales, LL54 6SY. The site is intended to allow TG Enviro to run a waste recycling business and increase the amount of waste recycled/ recovered whilst preserving virgin material. It is intended that the site will accept waste from commercial, industrial and domestic customers.
- 1.1.2 This Environmental Management System has been produced for TG Enviro as a means of providing a management structure to meet the requirements of an Environmental Permit.
- 1.1.3 Developments in legislation have increased the effectiveness and scope of operations for waste transfer, recycling and recovery operations. This facility is intended for the recycling or recovery of suitable waste materials into soil, soil substitutes and aggregate through treating, sorting and storage prior to recycling or recovery.
- 1.1.4 The registered office address for TG Enviro is:

Tudor Griffiths Limited  
Wood Lane  
Ellesmere  
Shropshire  
SY12 0HY

### 1.2 Site location and history

- 1.2.1 The site is located on land at Cefn Graianog Quarry, Llanllfni, Caernarfon, North Wales, LL54 6SY, National Grid Reference SH459488 as shown below.



1.2.2 The site is currently an operational sand and gravel quarry with the waste activity taking place on a previously extracted area, prior to the site open/ agricultural land.

### **1.3 Waste management operations**

1.3.1 The green line boundary and area which is the subject of this Environmental Management System is shown on Drawing No. *K0642-1003*. All references to 'the site' in this Environmental Management System shall mean this area and the infrastructure, plant and equipment associated within the site.

1.3.2 The EP permits; sorting, separation, screening and blending of waste for recovery as a soil, soil substitute or aggregate.

1.3.3 Specified waste management operations will include the waste recovery operations listed in Annex I and Annex II of the revised Waste Framework Directive. They are in summary:

- R13: Storage of waste pending recovery (Storage of waste pending any of the operations numbered R1 to R12 [excluding temporary storage, pending collection, on the site where it was produced])
- R5: Recycling/reclamation of other inorganic materials
- R3: recycling or reclamation of organic substances which are not used as solvents.

### **1.4 Hours of operation**

1.4.1 The operation of the facility will be during the hours listed below and in line with the current planning permission.

#### Site Operations

Monday to Friday	07.00 to 17.00
Saturday	08.00 to 12.30
Sunday	No operations
Public and Bank Holidays	No operations

1.4.2 Any proposal to conduct site operations outside the hours listed in 1.4.1 will be subject to prior notice to Natural Resources Wales (NRW) and Local Planning Authority.

## 1.5 Waste types and quantities

1.5.1 The waste types to be accepted at the site will be non- hazardous waste as listed in *Appendix 1*.

1.5.2 Excluded wastes – the following wastes will not be accepted.

Hazardous waste as defined under the Hazardous Waste (England and Wales) Regulations 2005. Liquid wastes, sludges and wastes consisting mainly or solely of loose fibres/ powders.

1.5.3 Waste delivered to the site will principally be from vehicles operated by TG Enviro, although third parties will be allowed to bring on material subject to Duty of Care checks.

1.5.4 Waste delivered to the site will be contained predominately within skip vehicles and 8-wheel tippers. The maximum quantities to be tipped at the site in any one working day will be 1,000 tonnes.

A running total will be kept ensuring compliance.

1.5.5 The maximum amount of waste to be stored on site at any time is 20,000 tonnes. The maximum duration of unprocessed waste is 12 months.

1.5.6 If the maximum storage capacity of the site is reached, then no further waste will be accepted until waste has been processed and removed from the site.

1.5.7 The maximum annual throughput is 50,000 tonnes per annum.

## 1.6 Staffing and management

1.6.1 The management structure for TG Enviro is shown in the organisational chart below.



1.6.2 Management holds weekly operations meeting, where any complaints and non-conformances will be discussed along with a review of the effectiveness of any mitigation measures. Additionally, there is a quarterly strategy meeting.

1.6.3 The management system will be reviewed as a minimum every 4 years. However, reviews will also take place in the event of.

- Change in site operations
- Change in plant/ equipment that affects the activities covered by the permit
- A permit variation is applied for
- After any accident, complaint or breach of permit
- If a new environmental problem emerges and additional control measure have been implemented

1.6.4 The site will be open for the receipt and processing of waste and for other essential operations during the hours listed in Section 1.4.

1.6.5 Positions in bold italic print below are the minimum staff requirements when the site is open for the reception and treatment of waste:

<b><i>Position</i></b>	<b><i>No.</i></b>	<b><i>Responsibilities</i></b>
<b><i>Site Operative</i></b>	<b><i>1</i></b>	<b><i>Overall site management (conversant with the waste acceptance and emergency procedure requirements of the Environmental Management System)</i></b>

1.6.6 A training needs assessment as shown in *Appendix 2* will be carried out for all staff and will be reviewed annually.

1.6.7 Additional staff employed by TG Enviro will also be utilised on site during busy periods to carry out waste operations, site maintenance works and plant maintenance.

1.6.8 Technical competence – this will be met through meeting the requirements of technical competence of a WAMITAB scheme. Additional technical competence may be achieved through the use of a third party holding the correct level of award upon approval by NRW.

1.6.9 Continuing competence will be demonstrated every 2 years through the WAMITAB continuing competence scheme.

1.6.10 The current technically competent managers for the site are shown in the table below.

<i>Name</i>	<i>Award achieved</i>	<i>Facilities covered</i>
Kevin Gardiner	LS4	Non-hazardous landfill
	TSS4	Inert Processing
	TMS4	Inert Processing
		Biomass
		MRF

1.6.11 All staff will undergo training as determined by their role. A record of the training will be kept in their personnel files. As a minimum all staff will have induction training.

## **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.

## **2.0 SITE INFRASTRUCTURE**

### **2.1 Access and parking**

2.1.1 Access to the site is gained from the A487. The site entrance is shown on Drawing No. *TGE/36/A*.

2.1.2 Parking - adequate space is available on the site for the parking of all vehicles associated with the operational activities as the site forms part of a larger quarry operation with associated infrastructure.

### **2.2 Notice board and signs**

2.2.1 A notice board will be positioned at the site entrance and will display the following information:

- The site operator's name, address and telephone number including emergency contact details
- Statement that the site is permitted by NRW
- The hours of operation of the site
- The Environmental Permit reference number
- NRW national telephone number including emergency response (0300 065 3000)

Additional signs will be displayed where relevant to highlight any information required for compliance.

### **2.3 Site security**

2.3.1 Gates - Gates are erected on the main access as shown on Drawing No. *TGE/36/A* The gates are made from metal. The gates will always be padlocked when the site is unmanned.

2.3.2 Fencing – The green line boundary is not fenced as it sits within an overall larger facility. The larger quarry facility is fenced.

2.3.3 CCTV – The site has the benefit of a CCTV system with cameras located around various parts of the site. Every Manager has access to a computer, laptop and phone which enables viewing of the CCTV system as well as control over some of the cameras.

2.3.4 Security – Outside of operational hours the site is randomly visited once per night between 9pm and 5am by a security company who carry out visual checks. If something suspicious is detected by the security company, then there is a call out procedure in place.

## **2.4 Site office**

2.4.1 The TG Enviro site office is located as shown in Drawing No. *TGE/37/A*.

2.4.2 The site records detailed throughout this Environmental Management System will be maintained in the site office and will be made available for inspection by NRW on request. Records will be kept for a minimum of 6 years unless stated otherwise. The list below details the relevant site documents.

- Environmental Permit (life of the site)
- Environmental Management System (life of the site)
- Waste Assessments (soil analysis from potentially contaminated sites/ Site Investigation Reports)
- Site Diary
- NRW inspection reports (life of the site)
- Duty of Care Waste Transfer Notes (retain for 2 years)
- Hazardous Waste Consignment Notes (retain for 3 years, non-conforming waste only)
- Waste delivery tickets (where applicable)
- Weighbridge tickets
- Visitor Book
- Accident book
- Site Condition Report (life of the site)
- Records of outputs from WRAP processed material
- Environmental incidents (life of the site)

## **2.5 Weighbridge**

2.5.1 All loads are weighed and report to the weighbridge clerk for initial verification. The weighbridge is fitted with a camera that allows the contents of open skip vehicles and 8-wheeler tippers to be visually assessed.

2.5.2 In absence of power to the site then manual tickets will be produced using average weights.

2.5.3 The weighbridge is calibrated annually; records of current calibration will be kept on site.

## **2.6 Fuel storage/ chemical storage**

2.6.1 There is no fuel stored within the operational area of the Construction and Demolition Waste Processing Facility. A refuelling station is used to fuel up machinery which is located within the quarry area and outside the permitted area.

2.6.2 Any liquids/ chemicals stored on site will be in double skinned containers, stored within bunded areas or on drip trays. The location may vary with operational need.

## **2.7 Drainage**

- 2.7.1 The site is located on a hard standing, drainage arrangements are shown in Drawing Number *K0642-1003* which shows drainage runs through topographical profiling which allows water to drain into a temporary surface water collection point within the permitted area. This water is then pumped to the quarry's settlement ponds and surface water management system for reuse as process water for washing/ grading of aggregates, as well as dust suppression. There is no discharge of surface waters from the larger (quarry) site to surface water. The surface water system is a closed loop system.
- 2.7.2 A weekly visual inspection of the surface water lagoon and pump will be conducted and recorded in the site diary checking for the presence of any oil films on the surface and odour. This is not expected as the waste types accepted are inert materials. If oil films and/ or odour are noted, then no water shall be pumped from the permitted area pending a further investigation.
- 2.7.3 A proposed surface water retention bund along the southern permit boundary will be constructed before the site becomes operational. This will join the existing eastern boundary bund, which will be enhanced to improve both visual and noise screening between the processing area and the potential noise receptor (residential property along the quarry access road). The bunds will be constructed using cohesive material to a height of 1.5m.
- 2.7.4 There is no foul drainage for this part of the site.

## **2.8 Waste Transfer & Storage**

- 2.8.1 All waste operations will take place within the green line boundary as shown on Drawing No. *K0642-1003* and *TGE/37/A*.
- 2.8.2 Area for the deposit of unauthorised wastes - an enclosed container/ area is to be allocated for the quarantining of unauthorised waste. The location of the quarantine area (5m x 5m) is shown on Drawing No. *TGE/37/A*.
- 2.8.3 The maximum storage heights for stockpiles are 5m and runs in line with the Quarry Rules.
- 2.8.4 The maximum storage capacities are shown on Drawing No. *TGE/37/A*. The maximum waste storage capacity is 14000 tonnes and held in the processing area. The maximum waste storage capacity of product is 6000 tonnes and held within the product stockpile area.

## **2.9 Vehicles, plant and equipment**

- 2.9.1 The site has access to the following plant and equipment which is integral to the operations of TG Enviro.
- Screens
  - Excavator

- Dumpers
- Loading shovel
- Weighbridge

2.9.2 Additional plant will be hired to cover any busy periods.

2.9.3 Records of plant maintenance and plant inspections are kept in the site office or workshop.

## **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 waste types that are acceptable at the site. The waste arriving on site will predominantly be brought in by vehicles operated by TG Enviro or delivered by other hauliers who hold current waste carrier's registration certificates. Details will be taken for all new haulage operators bringing waste to the site and the details will be periodically checked with NRW to ensure registration.
- 3.1.2 As the waste accepted will principally be from TG Enviro own vehicles then staff will check the load prior to uplift to ensure that the contents are in line with the Duty of Care Waste Transfer Note and in line with those permitted by the Environmental Permit and *Appendix 1* of this Environmental Management System.
- 3.1.3 Any non-conformances will be recorded (see 4.12), will follow the procedure for waste rejection in 3.2.13 and a waste rejection form completed (*Appendix 3*), if the non-conformance is deemed to cause/ potentially cause significant pollution or have a significant adverse environmental effect then NRW will be contacted immediately, and a written response given within 24 hours.
- 3.1.4 Any mirror non-hazardous waste codes (MN) listed in Appendix 1 of this Environmental Management System which are reliably understood and are clearly non-hazardous do not need to be sampled. If the MN are from potentially contaminated sites chemical analysis and assessment which demonstrates that the material is non-hazardous and suitable for the intended use will need to be undertaken. If the MN cannot be properly assessed, it will be assumed to be hazardous as a precautionary measure and not accepted. Records demonstrating an assessment of the waste to assign the relevant MN will be maintained.

### **3.2 Waste Acceptance Procedure**

- 3.2.1 Waste acceptance will be a structured hierarchy with appropriate points of control for the identification and validation of suitable wastes for disposal or recovery at the site. This is summarised as follows:

Level 1. Basic characterisation through pre-submission of an appropriate waste classification (European Waste Catalogue (EWC) codes, site investigations etc);

Level 2. Compliance testing; and

Level 3. On-site verification.

Each stage in the proposed waste acceptance scheme is detailed further below.

Level1: Waste Characterisation

- 3.2.2 The EWC code of wastes will be checked against any relevant available data

provided (e.g. waste description, waste source or chemical testing) to confirm that the waste coding is correct, it can be accepted under the permit, and it is suitable for the proposed activities. The waste enquiry procedure requires the following information, where available and applicable, to be gathered from any potential waste load prior to acceptance:

- Details of the waste producer including their organisation name, address and contact details;
- Source and origin of the waste (including full site address);
- Volume of the material to be deposited;
- Information on the process producing the waste (description and characteristics of raw materials and products);
- If the waste has gone through some treatment, then a full description of the waste treatment applied;
- A description of the waste;
- Code according to the EWC;
- Appearance of the waste (smell, colour, physical form); and
- Data on the composition and chemical properties of the waste. The Operator will ensure the analysis provided for any material is sufficient for a hazardous waste assessment, which will be undertaken in accordance with the Waste Framework Directive, relevant National Resources Wales (NRW) guidance and the WRAP Quality Protocol for Aggregates from Inert Waste.

3.2.3 This data will be reviewed by a suitably qualified person to ensure that all sampling is representative of the source of the waste and an appraisal of the composition, including the likelihood of hazardous properties, will be undertaken.

3.2.4 Wastes will only be accepted at the site if they fall within the limited types of wastes permitted in the EWC code list set out in the site permit and then only to that particular permitted activity.

3.2.5 If the composition of a waste stream subsequently changes, the Operator will stop the importation of the material and request additional / new information to enable them to carry out basic waste characterisation again.

3.2.6 Where the results of basic waste characterisation show a waste stream is not acceptable at the site, the customer will be informed, and the waste will not be accepted.

3.2.7 A copy of the site investigation report, analytical test data and any other relevant documentation relating to a waste stream that has been accepted, is kept on file and can be made available for inspection by NRW if requested.

#### Level 2: Compliance Testing

3.2.8 If the Operator has a regularly arising waste stream from the same source, checks are carried out to ensure that the waste streams are unchanged and continue to comply with the results of the basic characterisation, the acceptance criteria for the site, and its permit requirements.

3.2.9 The Operator always ensure that the site investigation information, provided as part of the basic waste characterisation, is fully representative of all material

proposed for import at the site. Any additional information requested is kept on file and can be made available for inspection by the Agency if requested.

### Level 3: Onsite Verification

3.2.10 Assuming the initial checks have been completed to the satisfaction of the site management / chemist, the weighbridge operator will be the next point of control prior to deposit of wastes in the site.

3.2.11 Each load arriving at the site will be subject to a Level 3 Verification. This constitutes, where appropriate, two visual inspections, by site office personnel prior to deposit of the waste and by the operative at the place of deposit. Given that loads may arrive at the site in wagons with sheeted bodies, an inspection at the weighbridge may be impractical. In such instances, verification of the load at the point of receipt will be limited to checking the accompanying Duty of Care documentation, with a visual inspection being carried out by the operative at the place of deposit.

3.2.12 The information to be recorded in respect of each load will be where appropriate:

- Pre-treatment details;
- Waste type;
- Date;
- Time;
- Customer name;
- Vehicle registration number and type;
- Ticket number; and
- Carriers' registration number.

### Rejection Procedures

3.2.13 In the event that any load or part load is found, prior to its deposit, to be outside those permitted at the site it will be rejected from the site.

3.2.14 Loads which are found to be potentially unsuitable after deposit will be referred to the site manager for action. This could include rejection of further loads from the source, isolation and removal of the waste materials and restrictions on future waste inputs from the producer.

3.2.15 In each instance, the Technically Competent Manager or nominated deputy will issue a Load Rejection Form to the waste producer or carrier.

3.2.16 In such circumstances where a waste load is rejected, the NRW will be notified and a record kept in the site diary of:

- nature and quantity of waste load;
- name and address of waste producer / waste carrier;
- waste carrier registration number;
- vehicle registration number; and
- date and time of load rejection.

3.2.17 All rejected loads will be accompanied by the correct documentation.

## Site Records

- 3.2.18 Copies of all records required in accordance with the permit are maintained and kept on file and can be made available for inspection by NRW if required.
- 3.2.19 All waste transfer notes will be kept on file for a minimum of two years. Waste transfer notes can be made available during this period for inspection by NRW if required.
- 3.2.20 If unauthorised waste is discovered, then the following courses of action are available:
- (i) If the vehicle is still on site, then load the vehicles with the non-conforming waste and get the vehicle to take off on the weighbridge so that an accurate record of the amount of waste accepted is available. The vehicle can then take the waste back to the producer.
  - (ii) Where the producer of the load cannot be contacted or where the removal off site of the waste may cause further problems then the waste will be stored in the quarantine area provided for unauthorised wastes. NRW will then be contacted to agree a course of action.

### **3.3 Waste Processing**

3.3.1 The purpose of this recycling facility is to allow specified non-hazardous waste streams to be stored, treated and blended to produce soil, soil substitutes and aggregate. This will reduce the need for landfill and for the use of virgin materials. This will occur through the following processes.

3.3.2 Once a load has been accepted for deposit (in accordance with 3.2.1) and is found to comply with the conditions of the environmental permit the following outline procedure will apply.

- (i) The driver will be directed where to deposit the load to help increase the recycling efficiency as shown in Drawing No. *TGE/37/A*.
- (ii) The load will be visually inspected by the loading shovel driver who will oversee the tipping operation and push the waste up into the relevant stockpile.
- (iii) Waste will be screened using a screener into soil/ sand and various size aggregates such as 80mm and 40 to 20mm depending on demand. The soil/ sand fractions will go into stockpiles.
- (iv) Any waste not suitable for recycling/ recovery will be stored on the site prior to removal off site, using a registered waste carrier and sent to a suitably authorised waste management facility.

A flow chart showing this procedure can be found in the WRAP QMS in *Appendix 4*

3.3.3 If the maximum storage capacity of the site is reached, then no further waste will be tipped until waste can be removed from the site and taken to a suitably licenced or exempt waste management operation.

3.3.4 Unsorted non-hazardous waste will be stored for a maximum of 12 months.

3.3.5 TG Enviro operates under a WRAP approved scheme for processing inert material into products such as recycled MOT, 6F2 and 6F5. A copy of the Quality Management System and Factory Production Control can be found in *Appendix 4*.

### **3.4 Waste collection**

3.4.1 The potential waste types produced by the recycling process includes.

<u>Waste Types</u>	<u>Classification</u>
General waste (plastic, wood, rubber)	non-hazardous
Scrap metal (ferrous)	non-hazardous
Scrap metal (non-ferrous)	non-hazardous

3.4.2 The waste produced above will be removed from site, using a registered waste carrier and sent to a suitably authorised waste management facility.

3.4.3 All waste carriers and disposal outlets will be checked for suitability against Duty of Care requirements (*Appendix 5*).

### **3.5 Site Closure**

3.5.1 In the event that the site ceases to operate, a permit surrender application will need to be submitted to remove the requirements of the environmental permit. To achieve this the following procedure will be implemented.

- TCM to contact the current NRW Enforcement Officer and inform them that the site is planning to cease operations.
- TCM to confirm with NRW that waste acceptance has ceased.
- TCM to assess the amount of unprocessed and processed waste and provide a timetable for clearance.
- After full implementation of the timetable and following removal of all infrastructure and mobile plant from the site a site investigation will be undertaken to assess the ground current conditions.
- This will be compared with the Site Condition Report (see 5.2)
- A surrender application will then be made to NRW permitting team for determination.

## **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 unless the repair can be carried out quickly without causing the operations of the site to breach any conditions. Mobile and static plant is on R&M contracts and older equipment is serviced and maintained by the T&G workshop.
- 4.1.2 Any spillage will be cleared immediately by using the spill kit located in the workshop as shown in Drawing No. *TGE/37/A* or sand on the affected area. The area will be cordoned off to contain the spillage. The garage contains a spill kit suitable for dealing with engine oil, hydraulic oil and coolants. If the spill is large, then sand can be used from the readily available sand stocks on the larger site. The sand or absorbents will then be placed in a container prior to being taken to a suitably licenced site for recovery/ disposal. Records of spillages will be kept in the site diary and Site Condition Report.
- 4.1.3 Any breakdown of plant that could lead to a breach of permit conditions and any spillage which has caused/ is causing or may cause significant pollution; and any significant adverse environmental effects will be reported to NRW without delay.

### **4.2 Site inspections and maintenance**

- 4.2.1 The inspection schedule for maintenance/ housekeeping is listed in *Appendix 6*. The inspection will be completed by the Waste & Recycling Manager or a person who is familiar with the requirements of the Environmental Management System and Environmental Permit. All details of defects, problems and repairs carried out will be recorded in the site diary on the day that each event occurs.
- 4.2.2 Any major defects found during the daily site inspection which are likely to lead to a breach of 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 NRW will be contacted to agree a suitable timescale for repair.

### **4.3 Control of mud and debris**

- 4.3.1 Mud on roads – The surfacing of the entire operational area of the site is hardstanding and is not expected to create mud in volumes that would cause an amenity issue.
- 4.3.2 There is no requirement under the planning permission for a wheel wash facility as debris on the road is not considered to be an issue.
- 4.3.3 The site is swept on a regular basis using a road sweeper.

4.3.4 If mud was to become an issue, then the mud would be cleaned by the end of the working day.

4.3.5 Road vehicles will not track through waste. However, the deposit of material on the public highway will be treated as an emergency and will be cleaned with a mechanical vacuum sweeper, or similar, immediately.

#### **4.4 Control and monitoring of dust**

4.4.1 All site operations will be carried out to minimise the creation of dust. It is not envisaged that dust will become an issue due to the management procedures in place. If fugitive dust emissions are observed, then the process giving rise to the operation will be suspended and an investigation carried out to ascertain the reason.

4.4.2 Screening will be a regular occurrence and the drop height from chutes will be kept to a minimum and chutes/ conveyors covered where possible.

4.4.3 A tractor and bowser are available for use to dampen down roads if required. There are various surface water ponds located within the quarry where water can be used.

#### **4.5 Odour control**

4.5.1 All incoming waste will be subject to the acceptance procedures as detailed in section 3.2.1. If any waste exhibiting offensive odours is deposited on site, it will be deposited in the quarantine area for rejected waste or removed from the site immediately to a suitable disposal site. Waste will be visually inspected before uplift by TG Enviro to ensure compliance with the permit.

4.5.2 It is not perceived for odours to be a problem due to the nature of the waste types accepted on site. Odours can be mitigated using good operational techniques. Should odour become an issue then the following action will be taken:

- Investigate the source of the odour
- Investigate operations management
- Investigate other potential sources exterior to the site
- Investigate complaint

4.5.3 If odours are detected within the site, then action will be taken to improve site operations. If this is not sufficient then alternative control methods will be employed such as odour masking sprays.

#### **4.6 Litter control**

- 4.6.1 The site surface will be inspected daily when the site is in operation however due to the nature of the waste types accepted litter is not perceived to be an issue.
- 4.6.2 Any litter which does escape and is arrested by the site boundary will be removed within 24 hours after it is discovered.

#### **4.7 Control of pests, birds and other scavengers**

- 4.7.1 Vermin/ insect/ bird control - 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.
- 4.7.2 The site will be inspected as part of the weekly site inspection, and the presence of vermin would be noted in the site dairy with a description of the action taken and its effectiveness.

#### **4.8 Control of Fire**

- 4.8.1 A Fire Prevention Plan is not required due to the waste types processed.
- 4.8.2 Naked flames and smoking are not allowed on site, other than in designated areas.
- 4.8.3 No waste material shall be burned within the boundaries of the site.
- 4.8.4 Any fire at the site will be regarded as an emergency and immediate action shall be taken to extinguish it with the appropriate fire extinguisher, provided that the person feels competent to tackle the fire.
- 4.8.5 In the event that the fire cannot be tackled with the equipment provided the Fire Brigade should be called.
- 4.8.6 All outbreaks of fire shall be notified forthwith to NRW.

#### **4.9 Control and monitoring of noise and vibration**

- 4.9.1 It is not anticipated that site operations will cause noise and vibration nuisance because of the scale and location of the operation. Activities likely to give rise to noise will be those operations associated with screening, plant/ machinery, reversing alarms from vehicles and unloading/ loading operations.

4.9.2 The nearest receptors for noise will be residential/ farming properties, campground located 325 to 780 m to the W-NW and residential property located on the access track to the quarry some 205m to the ESE (taken from Ayesa Environmental Risk Assessment submitted with the permit application).

#### **4.10 Local Receptors**

4.10.1 A copy of the Ayesa Environmental Risk Assessment submitted with the permit application can be found in *Appendix 7*, this shows the location of the facility relevant to its surroundings and highlights commercial, industrial, residential properties, protected areas and public open spaces.

#### **4.11 Natural Resources Wales reporting mechanism**

4.11.1 Any incidents involving the following will be reported to NRW as soon as is practicably possible either through a direct line or using the national 24-hour line were out of normal office hours.

- any malfunction, breakdown or failure of equipment or techniques, accident or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution
- the breach of a limit specified in the Environmental Permit
- any significant adverse environmental effects.

#### **4.12 Actual or potential non-compliance reporting mechanism**

4.12.1 Any actual incidents or potential non-conformances will be raised to management who will undertake an investigation to establish; if justified, date/ time location of incident, person reporting, root cause, review of procedures and risk assessments (environmental and H&S) covering the activity, recommendations for improvement and review of improvements at a later date to assess benefits.

4.12.2 This procedure will cover health & safety incidents or potential non-conformances, environmental incidents or potential environmental non-conformances and complaints from neighbours/ regulators.

4.12.3 The form in *Appendix 7* will be completed and used to store the information and allow quick access and review of any previous complaints.

#### **4.13 Complaints procedure**

4.13.1 Complaints will be treated as actual or potential non-conformances (see 4.12).

4.13.2 Complaints from the public will be investigated by either the Divisional Manager, Waste & Recycling Manager, Estates Manager or Quarry Manager.

4.13.3 The form in *Appendix 7* will be completed and used to store the information and allow quick access and review of any previous complaints.

#### **4.14 Climate change risk assessment**

4.14.1 Due to the potential for climate change and in accordance with regulator guidance a risk assessment has been undertaken to determine the effects of climate change on site operations. The potential scenarios, risks and mitigation measures are summarised in the table below.

TG Enviro - Cefn Graianog Quarry Climate Change Risk Assessment

Hazard	Description	Impact	Mitigation/ control measures
Summer daily maximum temperature	This may be around 7°C higher compared to average summer temperatures now, with the potential to reach extreme temperatures as high as over 40°C with increasing frequency based on today's values.	Potential for increased risk of fire on mobile plant/ screeners due to higher ambient temperatures and higher engine running temperatures. Risk of electrical failure due to exposure of wires to direct sunlight, plastic shrouding may become brittle due to exposure to more UV light.	Look to shield wires from direct exposure to sunlight, look to increase air flow around mobile plant engines. Regular inspection of wiring looms as part of pre-start checks.
		Increased dust emissions from stockpiles, during processing, road surfaces. Potential for issues for site staff and property on access road approx. 205m to the ESE of the waste operation.	Increased use of tractor and bowser for dust suppression. Increased use of road sweeper to clean the main access road, install spray bars on screener, use of wetting agents on stockpiles to prevent wind whipping. Collection of more surface run off from the whole site (waste and quarry operations). Remote location will mean that this is not a major issue.
		Prolonged dry periods could reduce the amount of water available for dust suppression.	Look to see if collection of more surface run off from the whole site (waste and quarry operations) is possible. Collect clean rainwater from office and workshop buildings. Look to see if feasible to install groundwater abstraction well(s).
Winter daily temperatures	This could be 4°C more than the current average with the potential for more extreme temperatures, both warmer and colder than present.	Lower winter temperatures could result in an increased risk of pipe work freezing.	Regular inspection and preventative maintenance of site, plant and equipment. Insulating exposed water carrying pipes.
Daily extreme rainfall	Daily rainfall intensity could increase by up to 20% on today's values.	Increased potential for surface water flooding/ ponding on operational areas, with the potential to generate greater mud quantities. Worst case scenario is that 'flooding' would halt operations (non-critical for the business).	Ensure surface water ponds are available with capacity for storing additional water. Drainage systems inspected as part of site checks.

Hazard	Description	Impact	Mitigation/ control measures
Average winter rainfall	Average winter rainfall may increase by over 40% on today's averages.	Increased potential for surface water flooding/ ponding on operational areas, with the potential to generate greater mud quantities. Worst case scenario is that 'flooding' would halt operations (non-critical for the business).	Ensure surface water ponds are available with capacity for storing additional water. Drainage systems inspected as part of site checks. Ensure pumps are sufficient in capacity to cope with additional quantities of water.
Sea level rise	Sea level rise which could be as much as 0.6m higher compared to today's level.	Not considered an issue due to location.	Not considered an issue due to location.
Drier summers	Summers could see potentially up to 40% less rain than now.	Increased dust emissions from stockpiles, during processing, road surfaces. Potential for issues for site staff and property on access road approx. 205m to the ESE of the waste operation. Remote location will mean that this is not a major issue.	Increased use of tractor and bowser for dust suppression. Increased use of road sweeper to clean the main access road, install spray bars on screener, use of wetting agents on stockpiles to prevent wind whipping. Collection of more surface run off from the whole site (waste and quarry operations).
	Prolonged dry periods could reduce the amount of water available for dust suppression.	Prolonged dry periods could reduce the amount of water available for dust suppression.	Look to see if collection of more surface run off from the whole site (waste and quarry operations) is possible. Collect clean rainwater from office and workshop buildings. Look to see if feasible to install groundwater abstraction well(s).
River flow	The flow in the watercourses could be 50% more than now at its peak, and 80% less than now at its lowest.	NRW flood maps show that the site is not located within an area at risk from river flooding.	NRW flood maps show that the site is not located within an area at risk from river flooding.

Hazard	Description	Impact	Mitigation/ control measures
Storms	Storms could see a change in frequency and intensity. The unique combination of increased wind speeds, increased rainfall, and lightning during these events provides the potential for more extreme storm impacts.	<p>Potential for high winds to cause greater dust issues due to increased wind whipping. Dust will have the ability to travel greater distances. Increased dust emissions from stockpiles, during processing, road surfaces. Potential for issues for site staff and property on access road approx. 205m to the ESE of the waste operation. Remote location will mean that this is not a major issue.</p>	<p>Increased use of tractor and bowser for dust suppression.  Increased use of road sweeper to clean the main access road.  Install spray bars on screener.  Use of wetting agents on stockpiles to prevent wind whipping.  Collection of more surface run off from the whole site (waste and quarry operations).  Profiling of stockpiles to reduce effects of wind whipping.</p>
		<p>Potential for lightning strikes to buildings and mobile plant</p>	<p>Mobile plant fitted with rubber tyres (loading shovel/ dumpers), also cab will act as barrier to lightning strikes and will go around plant to earth.  Screener not manned therefore risk is from fire and downtime associated with any damage. These are non-critical for the business and so would not cause a major issue.</p>

## 5.0 SITE RECORDS

### 5.1 Records

5.1.1 Documented procedures and records for the identification, collection, storage and disposal of waste have been established.

5.1.2 The following details will be recorded for every load accepted at the site:

- (i) The following details will be recorded for every load deposited at the site:
- (ii) The date of delivery
- (iii) Origin of the waste
- (iv) The type, nature and quantity of waste (in tonnes or cubic metres)
- (v) The List of Waste Code
- (vi) sic code for the process giving rise to the waste
- (vii) Vehicle registration number

5.1.3 The details may be entered into a computer system to assist with the production of auditable records of waste inputs.

5.1.4 The following details will be recorded for all deposits of unauthorised waste at the site:

- (i) Date and time of deposit.
- (ii) A description of the waste.
- (iii) The quantity of waste (type and number of containers).
- (iv) Name, address and telephone number of waste producer.
- (v) The carrier's name, registration number and vehicle registration.
- (vi) Reason for the rejection of waste and action taken.

The details will be recorded on a Rejected Waste Form *Appendix 3*

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

- (i) The date and time of removal.
- (ii) The type, nature and quantity of waste (in tonnes or cubic metres).
- (iii) The destination site.
- (iv) The name and registration number of the carrier removing the waste.

5.1.6 The details will be recorded on dockets and/ or a waste transfer note and may be entered into a computer system to assist with the production of auditable records of waste outputs.

5.1.7 Every quarter a quarterly return will be submitted to NRW detailing the amount of waste received on the site and the amount of waste removed from the site. The quarterly returns will be submitted by the end of the month following the quarterly return period as shown in the Table below.

Quarter	Period covered	Last date for submission
Q1	January to March	30 <sup>th</sup> April
Q2	April to June	31 <sup>st</sup> July
Q3	July to September	31 <sup>st</sup> October
Q4	October to December	31 <sup>st</sup> January

Electronic Waste Returns should be submitted to.

[waste.returns@cyfoethnaturiolcymru.gov.uk](mailto:waste.returns@cyfoethnaturiolcymru.gov.uk)

5.1.8 Site diary - The outcome of all inspections of site infrastructure will be recorded in the site diary including any action taken or proposed along with a review of the effectiveness of the action. Site Diary records shall include.

- Construction work
- Maintenance
- Breakdowns
- Emergencies
- Problems with waste received and action taken
- Site inspections and consequent actions carried out by the operator
- Technically competent manager attendance on site, date, time on, time off site
- Despatch of records to NRW
- Severe weather conditions
- Complaints and actions taken
- Environmental problems and remedial actions

5.1.9 Visitors to the site will sign the visitor's book upon arrival and exit stating the purpose of their visit and whom they represent.

5.1.10 In the event of a review/ change in the management system then the log in *Appendix 8* shall be completed, giving a date, description of the change, EMS reference to which the change refers, approved by and date approved.

5.1.11 The management system will be reviewed as a minimum every 4 years. However, reviews will also take place in the event of.

- Change in site operations
- Change in plant/ equipment that affects the activities covered by the permit
- A permit variation is applied for
- After any accident, complaint or breach of permit
- If a new environmental problem emerges and additional control measure have been implemented

5.1.12 A copy of Environmental Permit and EMS shall be kept available on site.

5.1.13 Document retention will be as follows.

<i>Document</i>	<i>Retention Time</i>	<i>Reason/ comment</i>
Environmental Permit	Life of the Site	Includes all modifications to aid surrender
Environmental Management System	Life of the Site	Required with permit
Waste Assessments (soil analysis from potentially contaminated sites)	Life of the Site	Will be required for permit surrender to demonstrate no contamination of land/ groundwater
Site Diary	Life of the Site	Will be required for permit surrender to demonstrate no contamination of land/ groundwater
NRW inspection reports	Life of the Site	Will be required for permit surrender to demonstrate no contamination of land/ groundwater
Duty of Care Transfer Notes	2 years	As long as electronic record available containing the details – keep for life of the site to aid permit surrender
Hazardous Waste Consignment Notes	3 years	Non-conforming waste only
Weighbridge tickets	2 years	As long as electronic record available containing the details – keep for life of the site to aid permit surrender
Site Condition Report	Life of the site	Required to be kept up to date for permit surrender
Records of outputs from WRAP processed material	2 years	As long as electronic record available containing the details – keep for life of the site to aid permit surrender
Waste Return	6 years	To allow review of the EMS by NRW As long as electronic record available containing the details – keep for life of the site to aid permit surrender
Records generated by NRW reporting mechanism	Life of the site	Will be required for permit surrender to demonstrate no contamination of land/ groundwater
Records generated by actual or potential non-compliance	Life of the site	Will be required for permit surrender to demonstrate no contamination of land/ groundwater
Complaints	Life of the site	Will be required for permit surrender to demonstrate no contamination of land/ groundwater
Other records required by this EMS will be kept for a minimum of 6 years to allow review of the EMS by NRW		

## **5.2 Site Condition Report**

5.2.1 A Site Condition Report (SCR) is a requirement of the Environmental Permitting Regulations for waste permits. This report is designed to record the condition of the land (including groundwater) on the site.

5.2.2 The SCR should be kept up to date throughout the life of the permit (first section is to be completed at permit application, second stage is to be completed during the operational life of the site, and the third stage is to be completed at permit surrender) to aid any future surrender application. The types of information that should be included in the report are.

- Details of any historic spills or contamination and any response (prior to permit issue).
- Evidence of the effectiveness of any measures taken to protect land and/ or groundwater since permit issue.

The SCR for the site has been partially completed, as required, as part of the permit application process.

## **6.0 CONTINGENCY PLANNING**

### **6.1 Breakdowns**

6.1.1 In the event of breakdowns then the Waste & Recycling Manager will be contacted as soon as is practically possible and informed of the problem. They will then arrange for a repair to be carried out either through any R&M contracts in place (newer equipment) or through contact with the workshop on site.

6.1.2 In the event that a repair cannot be affected in a timely manner then the following options are available.

- Store the material on site (max. storage time and quantities apply)
- Cancel third party contractors
- In the extreme event send material to alternative suitably authorised sites.

### **6.2. Enforced shutdowns**

6.2.1 In the event of an enforced shutdown the procedure in 6.1 will be followed.

### **6.3 Flooding/ extreme weather**

6.3.1 With the impacts of climate change, it is likely that extreme weather events will become more frequent and more severe.

6.3.2 The site is not located within a flood zone and so the risk of flooding is minimal from rivers. There remains the potential for flooding caused by infiltration in excess however this unlikely as the surrounding superficial geology is Glaciofluvial Deposits, Devensian - Sand and Gravel.

6.3.3 The risk of high winds will not cause excessive littering due to the types permitted at this part of the facility (soil and rubble).

# **APPENDIX 1**

## **WASTE TYPES**

Appendix 1 – Waste Types

Permitted waste types and quantities	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 50,000 tonnes a year.
Waste code	Description
01	Wastes resulting from exploration, mining, quarrying, and physical and chemical treatment of minerals
<b>01 04</b>	<b>wastes from physical and chemical processing of non-metalliferous minerals</b>
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
Waste code	Construction and demolition wastes (including excavated soil from contaminated sites)
17	
17 01	<b>concrete, bricks, tiles and ceramics</b>
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>17 03</b>	<b>Bituminous, mixtures, coal tar and tarred products</b>
17 03 02	Bituminous mixtures other than those mentioned in 17 03 01
<b>17 05</b>	<b>soil (including excavated soil from contaminated sites), stones and dredging spoil</b>
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
Waste code	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20	
20 02	Garden and park wastes (including cemetery waste)
20 02 02	Soil and stones

## **APPENDIX 2**

# **TRAINING NEEDS ASSESSMENT**

**TG ENVIRO  
FEBRUARY 2025**

# TG Group Environmental

Facility	Position	Training Required																							
		Management				Environmental Awareness				Maintenance/ operations								Accidents & Emergency							
		Certificate of Technical Competence	Supervision of waste management sites	Permit to Work	IOSH Managing Safely	Permit awareness	EMS Awareness	Waste receipt including Duty of Care	Waste separation and storage	Tele- handler	Loading shovel	Grab	Picking line	Mobile Plant maintenance requirements	Static Plant maintenance requirements	Shredder	Screener	All metal separator	IEC boiler operation & maintenance	Kiverco blower & shaker	Fire procedure – Fire Prevention Plan	Fire training (full day course)	Spill response procedure	Waste Rejection	Dust Suppression procedure
Biomass	Manager																								
	Supervisor																								
	Operative																								
MRF	Manager																								
	Supervisor																								
	Loading shovel driver																								
	Grab driver																								
	Pickers																								
Inert	Manager																								
	Supervisor																								
	Operative																								
	Pickers																								
All	Weighbridge Operator																								

Date: \_\_\_\_\_

Next review: \_\_\_\_\_

Manager: \_\_\_\_\_

Signature: \_\_\_\_\_

Review Date: 03/06/25

## **Training Needs Assessment - Cefn Graianog Quarry**

Training Summary – points to be covered by either formal training, toolbox talks or one to one training

Environmental & Permit Awareness training to cover

- What is an environmental permit?
- What is the EMS and how does this relate to the environmental permit?
- What are the main pitfalls on a daily basis?
- What is the best way to avoid prosecution?
- Waste acceptance procedures (Section 3.1 and 3.2 of the EMS)

Waste receipt including Duty of Care Waste Transfer Note Training

- Waste acceptance procedures (Section 3.1 and 3.2 of the EMS)
- Legal impacts of Duty of Care Waste Transfer Note
- How to complete a Duty of Care Waste Transfer Note

Waste separation and storage

- How to store in accordance with permit (Section 3.2, 3.3 of the EMS)

Fire Procedure

- How to raise the alarm
- Where is the muster point?
- Correct fire extinguisher for the correct fire

Review Date: 03/06/25

Training Summary – points to be covered by either formal training or toolbox talks

#### Waste Rejection procedure

- Where is the quarantine area?
- Who do I notify?
- Section 3.2 of EMS

#### Spill Response Procedure

- Types of spills
- Spillage procedure
- Location of spill kit
- Section 4.1 of EMS

#### Dust Suppression

- When is it required?
- Who do I contact?
- What techniques can we use to stop/ reduce dust?
- Section 4.4 of EMS

#### Contingency Planning

- What to do in the event of a breakdown?
- Who do I contact?
- Who is responsible for knocking off third party loads?

#### Mobile Plant maintenance requirements

- What daily, weekly, annual maintenance do I need to do? (see maintenance schedule)
- How do I report any defects?
- What is the service schedule of the mobile plant?
- What is excessive idling?

Review Date: 03/06/25

#### Static Plant maintenance requirements

- What daily, weekly, annual maintenance do I need to do? (see maintenance schedule)
- How do I report any defects?
- What is the service schedule of the mobile plant?

Review Date: 03/06/25

**Training Record**

<b>Employee Name</b>	<b>Job Title</b> Site Manager
----------------------	----------------------------------

Training Required	Date due	Date done	Passed as competent? yes/no	Reviewers Signature	Date for Refresher	Comments
Supervision of waste management sites						Through day-to-day operations
Environmental & Permit Awareness						
Waste receipt including Duty of Care Waste Transfer Note Training						
Waste Separation and storage						
Mobile Plant maintenance requirements						
Static Plant maintenance requirements						
Fire Procedure						
Fire training (full day course)						
Spill Response Procedure						
Waste Rejection Procedure						
Dust Suppression						

Review Date: 03/06/25

**Training Record**

<b>Employee Name</b>	<b>Job Title</b> <b>Supervisor</b>
----------------------	---------------------------------------

Training Required	Date due	Date done	Passed as competent? yes/no	Reviewers Signature	Date for Refresher	Comments
Supervision of waste management sites						Through day-to-day operations
Environmental & Permit Awareness						
Waste receipt including Duty of Care Waste Transfer Note Training						
Waste Separation and storage						
Mobile Plant maintenance requirements						
Static Plant maintenance requirements						
Fire Procedure						
Fire training (full day course)						
Spill Response Procedure						
Waste Rejection Procedure						
Dust Suppression						

Review Date: 03/06/25

**Training Record**

<b>Employee Name</b>	<b>Job Title</b> <b>Operative</b>
----------------------	--------------------------------------

Training Required	Date due	Date done	Passed as competent? yes/no	Reviewers Signature	Date for Refresher	Comments
Environmental & Permit Awareness						
Waste receipt including Duty of Care Waste Transfer Note Training						
Waste Separation and storage						
Mobile Plant maintenance requirements						
Static Plant maintenance requirements						
Fire Procedure						
Spill Response Procedure						
Waste Rejection Procedure						
Dust Suppression						



# **APPENDIX 3**

## **WASTE REJECTION FORM**

**TG ENVIRO  
FEBRUARY 2025**

## TG Enviro Services

### Waste Acceptance/ Non-conformance Reporting Form

#### **Conformance Report** (anyone can complete then hand to Waste & Recycling Manager)

Customer:

Waste Carrier:

Waste Carrier Licence No.:

Expiry Date:

Waste Source:

Date:

Time:

Description of Waste:

Action taken (if any)

Signed:

Name:

Position:

Date:

#### **Non-conforming Waste Report** (Waste & Recycling Manager, Divisional Manager to complete)

Reason for non-conformance?

Signed:

Name:

Position:

Date:

#### **Corrective Action** (Waste & Recycling Manager, Divisional Manager to complete)

Signed:

Name:

Position:

Date:

**Corrective Action** (Waste & Recycling Manager, Divisional Manager to complete)

Date of Action Implementation:

Review of Corrective Action (did it meet the expected outcome? lessons learnt):

Signed:

Name:

Position:

Date:

**Comments**

# **APPENDIX 4**

## **WRAP QMS**

**TG ENVIRO  
FEBRUARY 2025**

# Quality Management System – Production of Soil, Soil Substitutes and Aggregates

**TG Enviro**  
**Cefn Graianog Quarry**  
**Llanllfni**  
**Caernarfon**  
**North Wales**  
**LL54 6SY**

2025

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## Appendices

Appendix A Waste processing flow chart

Appendix B Product testing regime

Appendix C WRAP Producer compliance checklist

Appendix D WRAP Producer compliance checklist

## 1.0 GENERAL CONSIDERATIONS

- 1.1 TG Enviro operates a waste recycling facility using suitable wastes to create soil, soil substitutes and recycled aggregate.
- 1.2 This document is designed to meet the requirements of the WRAP Quality Protocol as well as meet the require of TG Enviro for producing soil and soil substitutes.
- 1.3 The facility runs under a bespoke permit.
- 1.4 It is proposed to operate under this Quality Management System (QMS) to allow inert waste to be turned into a product and therefore no longer be classed as a waste, operating under the guidance of WRAP. This quality management system will be the factory production control document and will include the method statement of production.
- 1.5 This QMS will provide customers with the confidence that products are manufactured in accordance with the requirements of production and use of aggregates from inert wastes and supersedes “Quality Protocol for the production of aggregates from inert waste”, revised edition (ISBN 1-84405-217-6).
- 1.6 The QMS aims to;
  - i. Clarify the point at which waste management controls are no longer required.
  - ii. Provide users with confidence that the aggregate they purchase conforms to an approved industry specification defined in accordance with an appropriate European aggregate standard.
  - iii. Provide users with confidence that the aggregate is suitable for a use within a designated market sector(s) including by conforming with the industry standard.
  - iv. Protecting human health and the environment (including soil)
  - v. Describe acceptable good practice for the transportation, storage and handling of aggregate.

- 1.7 Due to potential changes in case law and guidance by DEFRA the point at which waste ceases to be waste may change in the future.
- 1.8 Products have to be fit for purpose and meet customer requirements. The customer will determine if any additional testing or analysis for end use is required as they hold the technical expertise to make that judgement (customers base includes engineering and construction companies).
- 1.9 If a recovered aggregate meets a specification which is fit for purpose and does not pose a threat to the environment as stated in 1.6 IV above, then it should be considered a product as long as the procedures highlighted in this QMS are adhered to.

## **2.0 WASTE ACCEPTANCE**

- 2.1 To achieve the standards required under the WRAP Quality Protocol it is proposed that the following waste types as shown in **Appendix A** are only accepted for the production of aggregates from inert waste.
- 2.2 Waste is considered to be inert if;
  - i. It does not undergo any significant physical, chemical or biological transformations.
  - ii. It does not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm to human health.
  - iii. Its total leachability and pollutant content and the ecotoxicity of its leachate are insignificant and, in particular, do not endanger the quality of any surface water or groundwater.
- 2.3 The process of turning waste material into a product is classified as a waste recovery operation and is subject to the waste management controls set out in the Waste Framework Directive and domestic legislation.

- 2.4 The waste acceptance criteria will be crucial in aiding the achievement of the quality management system and as such the flow chart in Appendix B for the acceptance and processing of inert waste will be followed.
- 2.5 It is proposed that suitable waste as defined by the List of Wastes Code (Appendix A) and after visual inspection, to check for contamination such as plastic, metal, wood etc. are placed into the aggregates source stockpile for processing.
- 2.6 Non-conforming material will be quarantined and placed in skips/ containers.
- 2.7 Waste from mixed inerts/ soils (Aggregate Source Stockpile) will be screened to remove fines/ soil contamination. Soils will be kept separate. Some clean source segregated soil that is received directly may or may not require processing.
- 2.8 Waste from the aggregate source stockpile will pass through a screen to remove fines. This process will act as the waste acceptance criteria for input materials for aggregate production. All staff used for the production of aggregates from inert waste will be trained in the requirements of this Quality Management System.
- 2.9 Processing will involve the screening of the waste to form an aggregate.
- 2.10 When the waste arrives on site a record will be made of;
  - i. Waste type (Duty of Care Waste Transfer Note)
  - ii. Waste quantity by weight (weighbridge record) or volume
  - iii. Date (weighbridge records)
  - iv. Source/ Place of origin (Duty of Care Waste Transfer Note)
  - v. Supplier/haulier (Duty of Care Waste Transfer Note)
  - vi. Method of acceptance (visual inspection)

### **3.0 Waste Processing**

- 3.1 All material from stock areas will be visually inspected for suitability and degradation prior to processing. If any material is found not to comply then it will be rejected with the material being placed in the skip/ container onsite for non-conforming material.
- 3.2 Waste will be screened (where applicable) to produce aggregate (unbound mixtures).
- 3.3 It is proposed that following the quality management system will allow the following outputs to be produced:
  - 6F2 – Selected granular material (coarse grading)
  - 6F3 – Selected granular material
  - 6F5 – Selected granular material (coarse grading)
  - Various bespoke products prepared to customer requirements i.e. crusher run, 40mm down
- 3.4 Products produced will be stocked in clearly defined stockpiles. Stockpiles of differing material will not be allowed to be cross contaminated.
- 3.5 Only personnel trained in this system will be allowed to operate within the areas of the site covered by this QMS.
- 3.6 Stockpile locations and product locations maybe clearly marked on a diagram kept within the plant used for the production of the aggregate and/ or through use of signage/ noticeboards.
- 3.7 A record of all waste processing activity including hours of operation will be kept in the site diary. This will be used to determine the factory production hours and allow sampling and testing to be carried out in accordance with section 4.

3.10 Plant used in the production of aggregate will be;

- 360-degree excavator(s)
- Loading shovel
- Screener

#### **4.0 Inspection & Testing**

4.1 The output material that will be produced will be sold as recycled aggregate and/ or to a specified standard resulting in the need to use less virgin products and dispose of less material.

4.2 The inspection and testing regime takes into account the material end use and factory production time periods. 1 production week equals the period of time taken to complete 5 full production days (60 hours), 1 production month equals 4.5 weeks x 60 hours equals 270 hours, 1 production year equals 12 x production months equals 3240 hours (12 x 270 hours).

4.3 It is therefore proposed that the following minimum test frequencies and parameters are applied as shown in Table 2. The actual testing regimes will vary depending upon the product to be produced and are shown in Appendix B. Additionally specific testing regimes may be produced with customer approval for certain jobs.

4.4 All sampling and testing will be carried out in accordance with the recommendations of the testing house who may have specific requirements for certain test parameters.

4.5 All testing will be carried out by test houses who hold suitable accreditation i.e. UKAS

4.6 Any product stockpile found not to comply with the relevant standards in Appendix B will not be used and will be sent to the feedstock area for reprocessing. A note will be made in the site diary.

## **5.0 Dispatch**

5.1 All products going off site will have the following records kept;

- i. Date
- ii. Product
- iii. Quantity
- iv. Location
- v. Customer

5.2 On the delivery document form there will be a note saying that the product has been produced under a quality protocol.

## **6.0 Management**

6.1 Huw Thomas will have overall responsibility for the Quality Management System even though some aspects maybe delegated for operational reasons.

6.2 Huw Thomas will be responsible for ensuring that the procedures outlined in this quality management system are fully implemented.

6.3 Huw Thomas will be responsible for ensuring that testing is carried out according to the specification of the products produced.

6.4 Huw Thomas will be responsible for ensuring administration of documentation, to include;

- i. Duty of Care waste transfer notes (kept for a minimum of 2 years)
- ii. Waste carrier's registration/ certification
- iii. Completion of the site diary including production hours/ tonnage
- iv. Copies of all test results
- v. Copies of all delivery documentation

- 6.5 A review of this Quality Management System will be undertaken periodically or if there is a major change in operations/ standards. The review will look to check that the Quality Management System is still relevant and will be checked against the requirements of WRAP producers' compliance checklist (**Appendix D**).
- 6.6 Sub-contractors if any that will be used for any part in the production process including generation of input materials will be instructed in the relevant procedures of this Quality Management System and a record kept in the site diary.
- 6.7 Equipment involved in the production process will be maintained in good working order and in accordance with the manufacturer's recommendations. Any work carried out on equipment will be recorded in the site diary.
- 6.8 Screen size may be altered to produce different outputs by changing the screen mesh. Any changes will be carried out in accordance with the manufacturer's recommendations and a record made in the site diary.
- 6.9 Prior to carrying out any work with equipment the equipment will be checked by the operator for defects. If any defects are found, then Huw Thomas will be contacted immediately, and the equipment will not be used until the problem has been rectified. A note will be made in the site diary.
- 6.10 Input and output materials will be stocked in a controlled manner and in clearly identifiable locations.
- 6.11 Records of results from the testing regime including historical will be made available to purchasers upon request.

## Appendix A

### Acceptable Waste Types

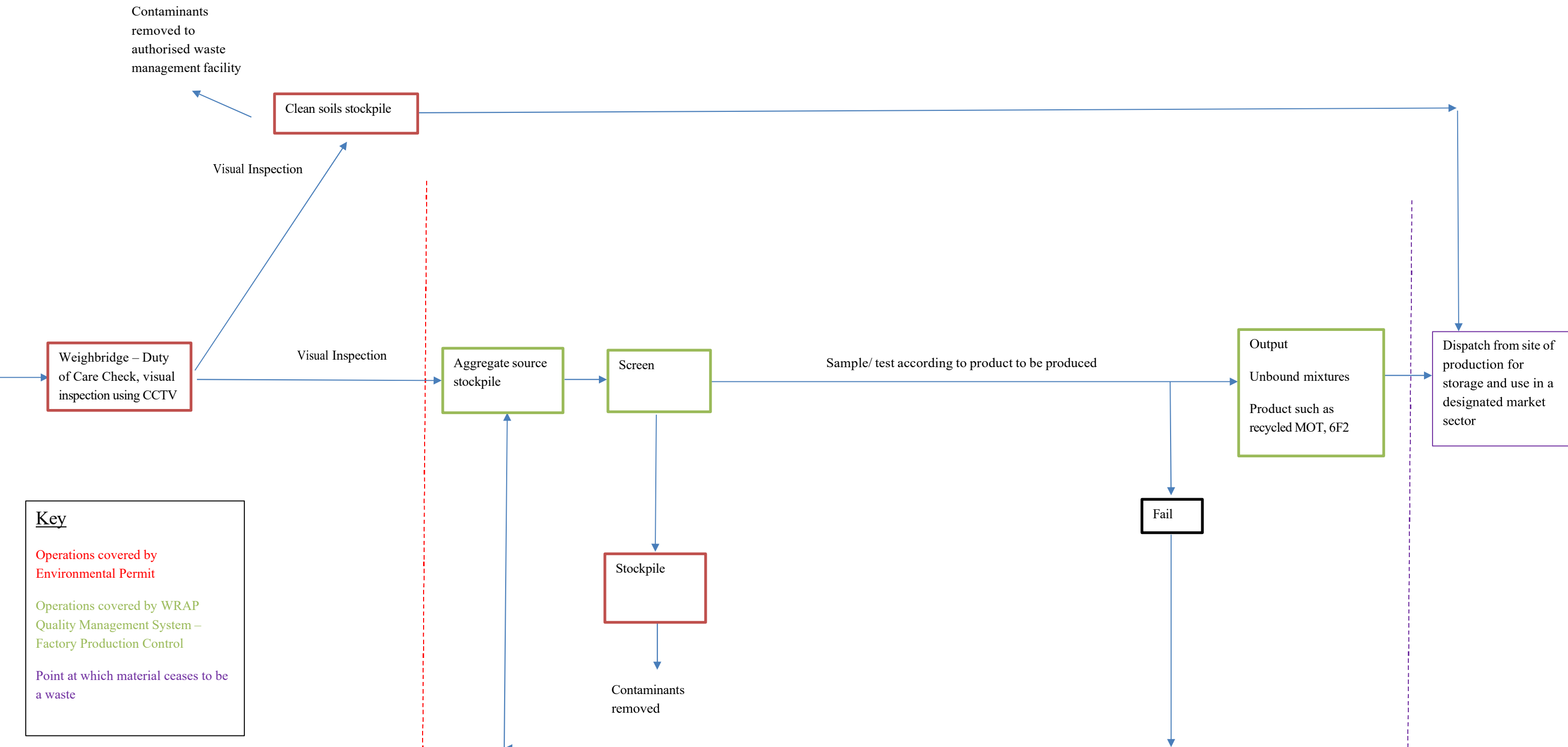
**Table 1 – Acceptable inert material for the production of aggregates from inert waste**

<b>Wastes from physical and chemical processing of non-metalliferous minerals</b>	
<b>Types and exclusions</b>	<b>Waste code</b>
Waste gravel and crushed rocks other than those mentioned in 01 04 07 <i>May include excavation from mineral workings</i>	01 04 08
Waste sand and clays <i>Waste sand only</i> <i>Must not include contaminated sand</i>	01 04 09
<b>Construction and demolition waste – concrete, bricks, tiles and ceramics</b>	
<b>Types and exclusions</b>	<b>Waste code</b>
Concrete <i>Must not include concrete slurry</i>	17 01 01
Bricks	17 01 02
Tiles and ceramics	17 01 03
Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	17 01 07
<b>Construction and demolition waste – soil (including excavated soil from contaminated sites), stones and dredging spoil</b>	
<b>Types and exclusions</b>	<b>Waste code</b>
Soil and stones other than those mentioned in 17 05 03 <i>Must not contain any contaminated soil or stone from contaminated sites</i>	17 05 04
Dredging spoil other than those mentioned in 17 05 05 <i>Allowed only if;</i> <i>Inert aggregate from dredgings.</i> <i>Must not contain contaminated dredgings.</i> <i>Must not contain fines</i>	17 05 06
<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>	
<b>Types and exclusions</b>	<b>Waste code</b>
Garden and park wastes (including cemetery waste) – soil and stones <i>Must not contain contaminated stones from garden and parks waste</i>	20 02 02

## Appendix B

### Waste Processing Flow Chart

# Cefn Graianog Quarry Waste Processing Flow Chart



**Key**

- Operations covered by Environmental Permit
- Operations covered by WRAP Quality Management System – Factory Production Control
- Point at which material ceases to be a waste

Records available

- Job tickets
- Waste Carrier registrations
- Duty of Care Waste Transfer Note
- Site Diary (Quarantine material)

Records available

- Site Diary (record of operating hours)
- Plant inspection/ maintenance
- Test analysis results
- Weighbridge calibration certificates

Records available

- Dispatch documentation

## Appendix C

### Product Testing Regime

**Table 2 – Testing Regime**

End Use	Standard and Specifications	Test	BS test reference	Minimum test frequency
All end uses	BS EN 13242 BS EN 1260	Particle Size Distribution	EN 933-1	1 per week
		Particle Density	EN 1097-6	1 per month
		Resistance to fragmentation (LA)	EN 1097-2	2 per year
		Classification of constituents	EN 933-11	1 per month
		Water soluble sulphate	EN 1744-1	1 per month
End Use	Standard and Specifications	Specification	Quality Controls	
Unbound recycled aggregate: granular fill, general fill, capping	BS EN 13242	Highways Agency Specification for Highways Works: series 600 HAUC: Specification for the reinstatement of openings in highways (SROH) BS EN 13285: Unbound mixtures specifications	BS EN 13242: Level 4 Attestation SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW	
Unbound recycled aggregate: Pipe bedding Drainage	BS EN 13242	Highways Agency Specification for Highways Works: series 500 HAUC: Specification for the reinstatement of openings in highways mixtures specifications (SROH)	BS EN 13242: Level 4 Attestation SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW	
Unbound recycled aggregate: sub-base	BS EN 13242	Highways Agency Specification for Highways Works: series 600 HAUC: Specification for the reinstatement of openings in highways (SROH) BS EN 13285: Unbound mixtures specifications	BS EN 13242: Level 4 Attestation SHW: Quality Control procedures in accordance with the Quality Protocol for the production of aggregates from inert waste SROH: Compliance with SHW	

## Appendix D

### WRAP Producers Compliance Checklist

Quality Protocol for the production of aggregates from inert waste

# Producers' compliance checklist

**This is a self-assessment checklist for producers of aggregates wishing to test and demonstrate the compliance of their process to the WRAP Quality Protocol for production of aggregates from inert waste.**

Please consider your process and activities and tick "Yes" or "No" as applicable for each question. Refer to the accompanying Guidance Notes for further details as required.

Your process is fully compliant with the Quality Protocol for production of aggregates from inert waste only if you respond "Yes" to all questions.

Measures to correct areas of non-compliance (where ticks have been scored in the "No" column) must be identified and implemented to achieve compliance with the Quality Protocol. Recycled aggregates that are produced by a process not fully compliant with the Quality Protocol are likely to be a waste and subject to Environmental Permitting Regulations (England & Wales) or Waste Management Licensing Regulations (Scotland & Northern Ireland).

Checklist and Summary Guidance <sup>i</sup>	YES	NO
<p><b>Waste management requirements (QP ref* 3.4.1, 3.4.4, 3.6.1 and 3.7.1)</b></p> <p>Does your recycling operation have the required environmental permit/waste management licensing/exemptions and is the Duty of Care applied?</p> <p><i>NOTE: You must demonstrate that you meet the statutory and regulatory requirements, including use of registered waste carriers and Waste Transfer Notes (WTNs). Please consult the Guidance Notes for further details.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Acceptance of incoming waste (QP ref 3.4.1 to 3.4.4 and App C)</b></p> <p>Do you have site/location specific Acceptance Criteria procedures for the incoming waste?</p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Do your Acceptance Criteria include a description of the types of waste accepted and a description of the method of acceptance?</p> <p><i>NOTE: List Of Waste Regulations/ European Waste Code for consistency with the WTNs must be used. You must demonstrate that only inert waste is accepted for production of aggregates to the Quality Protocol. Inspection at receipt and at tipping must be carried out.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Are material input records kept?</p> <p><i>NOTE: A record of each load received and accepted must be kept.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Do you have a procedure for non-compliant waste?</p> <p><i>NOTE: You must demonstrate how you are dealing with non-conforming incoming waste. Please consult the Guidance Notes for further details.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Production and Standards/Specifications requirements (QP ref 3.1 to 3.3 and 3.5)</b></p> <p>Have you set up a Factory Production Control (FPC) system, which includes a Method Statement of Production (MSP), describing the waste recovery process and the range of products?</p> <p><i>NOTE: FPC is mandatory for production of aggregates to BS EN Standards and common industry specifications and it is a requirement of the Quality Protocol. The MSP may be represented by a flow chart. All materials produced must be listed. Implementation of the FPC must be demonstrated using the detailed list of requirements within the guidance notes.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Do you produce to established specifications and/or standards?</p> <p><i>NOTE: Aggregates must be produced to be fully compliant to established specifications and/or standards.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>

Checklist and Summary Guidance <sup>i</sup>	YES	NO
<p><b>Testing (QP ref 3.6, 3.6.1 and 3.6.2)</b></p> <p>Have you defined what testing to undertake, and how often, for each material you produce?</p> <p><i>NOTE: Any material produced to a FPC must have a defined testing procedure and sampling and testing frequency. Please refer to the Guidance Notes for examples of minimum testing frequencies.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Does your testing regime comply with the requirements of the standards and specifications for the aggregates you are producing?</p> <p><i>NOTE: Aggregates produced to standards and specifications must be tested to demonstrate compliance to those standards and specifications.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Do you have a procedure for dealing with non-conforming products?</p> <p><i>NOTE: You must demonstrate that non-compliant products are dealt with in accordance to the FPC.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>Documentation (QP ref 3.7.2, 3.7.3, 3.8 and 3.9)</b></p> <p>Do you keep a record of all the appropriate documents, in accordance with the FPC, and specifically of the results of the tests undertaken as required by the standards and specifications?</p> <p><i>NOTE: A list of records that must be kept in accordance to the FPC is provided within the Guidance Notes.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>
<p>Does the delivery ticket of your product contain the description of the material in accordance with the industry or client specification and does it include a statement that the aggregate was produced to a quality scheme meeting the Quality Protocol?</p> <p><i>NOTE: Details on the delivery ticket must be provided in accordance with the FPC. The statement that the aggregate was produced to a quality management scheme conforming to the Quality Protocol can only be inserted if no "No" cells have been ticked in this self-assessment form.</i></p>	<input type="checkbox"/>	<input type="checkbox"/>

The competent authority for Environmental Permitting (England and Wales) Regulations is the Environment Agency, for Waste Licensing Regulations in Scotland is the Scottish Environment Protection Agency and in Northern Ireland is the Department of the Environment (Environment and Heritage Service). These agencies are able to confirm or provide information on permits, licences and exemptions to third parties if required. They are also able to require documentary proof of the compliance to the Quality Protocol from recycled aggregate producers who claim to be operating to the Quality Protocol.

\* QP refs. are for numbered sections in the three versions of the WRAP Quality Protocol for the production of aggregates from inert waste covering England & Wales, Scotland, and Northern Ireland.

Copies are available from [http://www.aggregain.org.uk/quality/quality\\_protocols/index.html](http://www.aggregain.org.uk/quality/quality_protocols/index.html)

For additional information on Quality Management Systems go to: <http://www.aggregain.org.uk/quality/index.html>

<sup>i</sup> Expanded guidance notes are available in a separate document called: Guidance Notes to the Producers' compliance checklist for the Quality Protocol for the production of aggregates from inert waste

WRAP helps individuals, businesses and local authorities to reduce waste and recycle more, making better use of resources and helping to tackle climate change. While steps have been taken to ensure its accuracy, WRAP cannot accept responsibility or be held liable to any person for any loss or damage arising out of or in connection with this information being inaccurate, incomplete or misleading. This material is copyrighted. It may be reproduced free of charge subject to the material being accurate and not used in a misleading context. The source of the material must be identified and the copyright status acknowledged. This material must not be used to endorse or used to suggest WRAP's endorsement of a commercial product or service. For more detail, please refer to our Terms & Conditions on our website - [www.wrap.org.uk](http://www.wrap.org.uk)

**Waste & Resources  
Action Programme**

The Old Academy,  
21 Horse Fair,  
Banbury, Oxon  
OX16 0AH

Tel: 01295 819 900  
Fax: 01295 819 911  
E-mail: [info@wrap.org.uk](mailto:info@wrap.org.uk)

Helpline freephone  
0808 100 2040

[www.wrap.org.uk/construction](http://www.wrap.org.uk/construction)



# **APPENDIX 5**

## **DUTY OF CARE**



# **APPENDIX 6**

## **INSPECTION SCHEDULE**

# Site Inspection Schedule | 2025

Item requiring checking	How often? (tick the appropriate box)							Where are maintenance instructions?	Who is responsible ?
	Day	Week	Month	6 monthly	Year	2 years	4 years		
Check for spills on surfaced areas (clean up if required)	<input type="checkbox"/>							EMS (office)	HT
Condition of access roads including cleanliness	<input type="checkbox"/>								HT
Condition of yard/ building - housekeeping	<input type="checkbox"/>								HT
Weather conditions	<input type="checkbox"/>							EMS (office)	HT
Minimum staffing requirements met	<input type="checkbox"/>							EMS (office)	HT
Hours reading for loading shovel	<input type="checkbox"/>							EMS (office)	HT
Waste types within permit	<input type="checkbox"/>							EMS (office)	HT
Hours of operation	<input type="checkbox"/>							EMS (office)	HT
Storage of liquids (drip trays)	<input type="checkbox"/>							EMS (office)	HT
Dust -check bowser availability	<input type="checkbox"/>							EMS (office)	HT
Noise	<input type="checkbox"/>							EMS (office)	HT
Odour	<input type="checkbox"/>							EMS (office)	HT
Litter	<input type="checkbox"/>							EMS (office)	HT
Pests – birds, vermin and insects	<input type="checkbox"/>							EMS (office)	HT
Plant inspection	<input type="checkbox"/>							EMS (office)	HT
Storage of waste according to Permit		<input type="checkbox"/>							
Check state of fences and gates – (to avoid vandals or children getting in and, for example, letting liquids out of a drum).		<input type="checkbox"/>							

Item requiring checking	How often? (tick the appropriate box)							Where are maintenance instructions?	Who is responsible ?
	Day	Week	Month	6 Monthly	Year	2 years	4 years		
Availability of Environmental Permit, Planning Permission, EMS		<input type="checkbox"/>							HT
Visitor book		<input type="checkbox"/>							HT
Provision of quarantine area		<input type="checkbox"/>							HT
Transfer notes and carrier registration		<input type="checkbox"/>						EMS (office)	HT
Mobile and static plant maintenance checks completed		<input type="checkbox"/>							HT
Permitted quantities of waste		<input type="checkbox"/>						EMS (office)	HT
Surface Water lagoon for presence of oil		<input type="checkbox"/>							HT
Surface Water pump		<input type="checkbox"/>							HT
Plant maintenance schedules			<input type="checkbox"/>					Office	HT
Site records as required by Permit			<input type="checkbox"/>					EMS (office)	HT
Site Identification Board				<input type="checkbox"/>				EMS (office)	HT
Review EMS							<input type="checkbox"/>	EMS (office)	HT

HT = Huw Thomas

# **APPENDIX 7**

## **COMPLAINTS FORM**

# **APPENDIX 8**

## **ENVIRONMENTAL RISK ASSESSMENT**

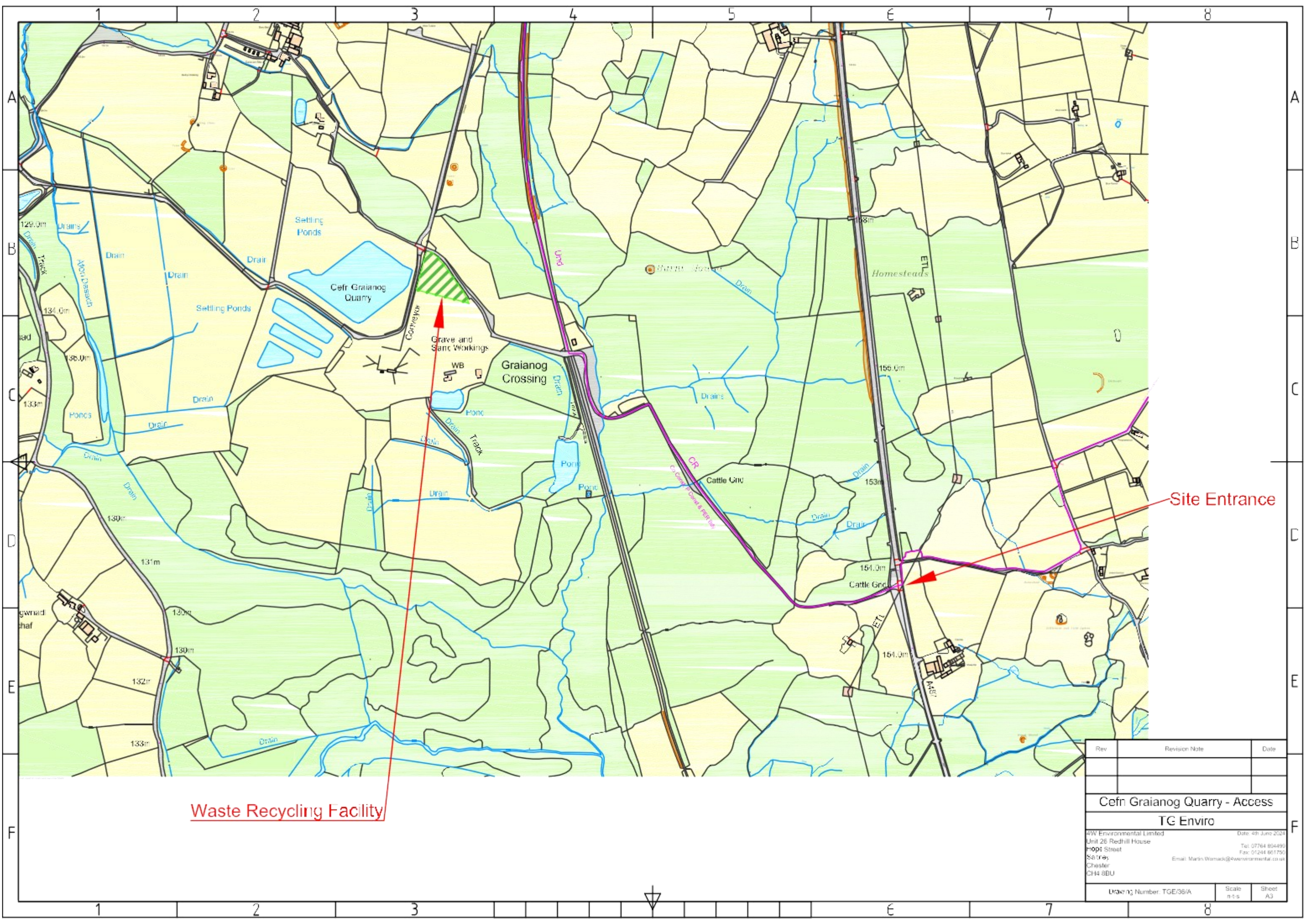
**TG ENVIRO  
FEBRUARY 2025**

# **APPENDIX 9**

## **LOG OF CHANGES**

**TG ENVIRO  
FEBRUARY 2025**





Waste Recycling Facility

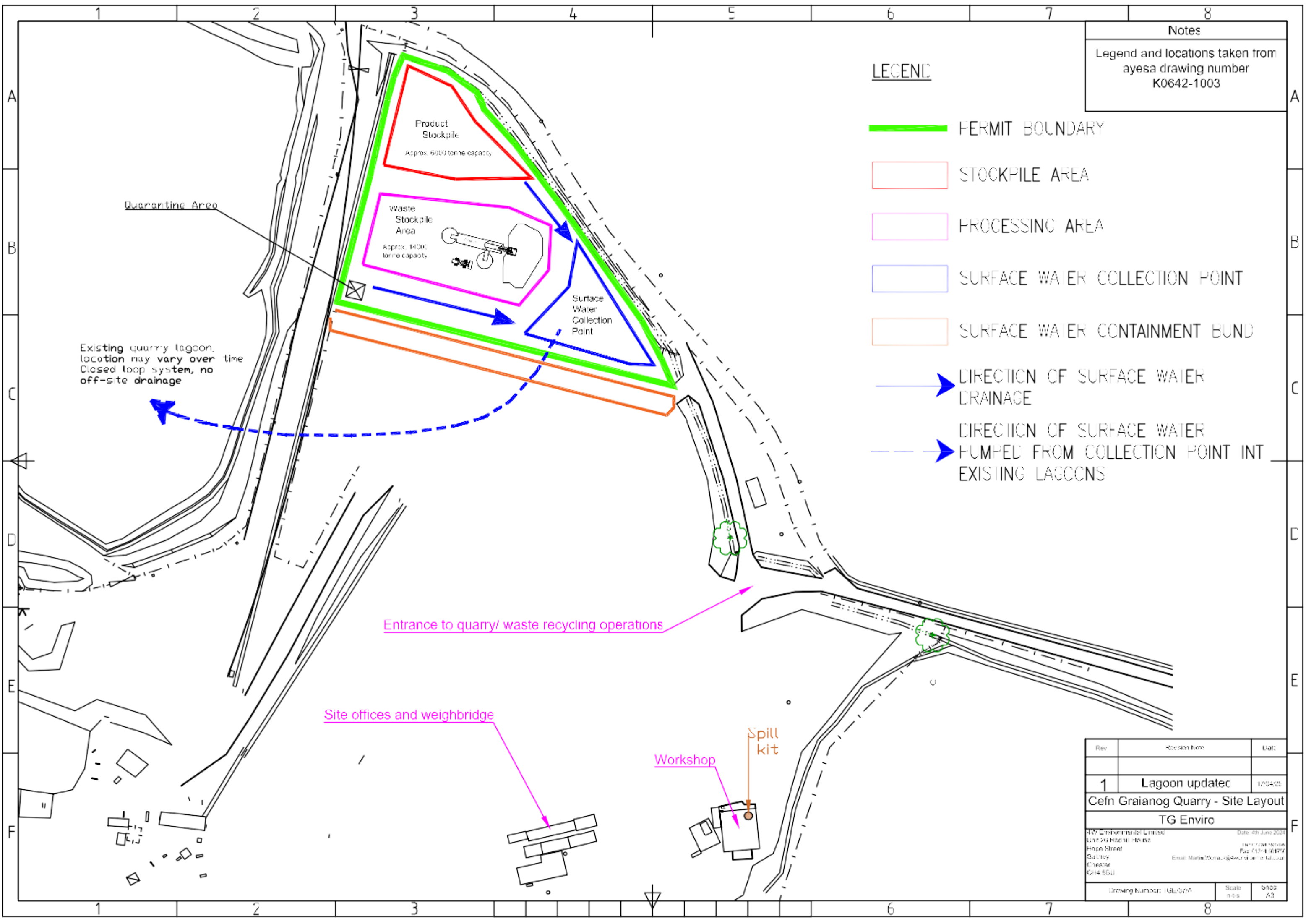
Site Entrance

Rev	Revision Note	Date
<b>Cefn Graianog Quarry - Access</b>		
<b>TG Enviro</b>		
4W Environmental Limited Unit 26 Redhill House Popes Street Sa'trey Chester CH4 8BU		Date: 4th June 2024 Tel: 07764 894499 Fax: 01244 601750 Email: Martin.Wernick@4wenvironmental.co.uk
Drawing Number: TGE/36/A		Scale: n.t.s.
		Sheet: A3

**Notes**  
 Legend and locations taken from  
 ayesa drawing number  
 K0642-1003

**LEGEND**

- FERMIT BOUNDARY
- STOCKPILE AREA
- PROCESSING AREA
- SURFACE WATER COLLECTION POINT
- SURFACE WATER CONTAINMENT BUND
- DIRECTION OF SURFACE WATER DRAINAGE
- - - → DIRECTION OF SURFACE WATER PUMPED FROM COLLECTION POINT INTO EXISTING LAGOONS



Rev	Description	Date
1	Lagoon updated	1/10/2023

**Cefn Graianog Quarry - Site Layout**

**TG Enviro**

TG Environmental Limited  
 Unit 20 Rochall House  
 Hope Street  
 Saltnay  
 Chester  
 CH4 6SU

Date: 4th June 2024  
 Tel: 01294 561756  
 Fax: 01294 561757  
 Email: Martin.Watson@tgenviro.com

Drawing Number: 106/005      Scale: n.t.s.      Sheet: 3/103 A3

A3



GENERAL NOTES

- GENERAL NOTES**
- DO NOT SCALE OFF DRAWING.
  - ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
  - ALL LEVELS IN METRES (ORDNANCE DATUM) UNLESS OTHERWISE NOTED.

LEGEND

- PERMIT BOUNDARY
- PRODUCT STOCKPILE AREA
- WASTE STOCKPILE & PROCESSING AREA
- SURFACE WATER COLLECTION POINT
- SURFACE WATER CONTAINMENT BUND
- DIRECTION OF SURFACE WATER DRAINAGE
- DIRECTION OF SURFACE WATER PUMPED FROM COLLECTION POINT INTO EXISTING LAGOONS

PO4	24.02.25	TEXT ADDED AND AMENDS	GH	OS	JB
PO3	24.02.25	AMENDS	JM	OS	JB
PO1	19.04.24	FOR REVIEW	GH	OS	JB
Rev	Date	Descriptor	By	Chk	App



PROJECT  
CEFR GRAIANOG QUARRY  
PERMIT APPLICATION

DRAWING TITLE  
SITE LAYOUT AND DRAINAGE PLAN

STATUS: FOR REVIEW      SUITABILITY: -

Date: 17/05/24	Scale: 1:1000	Drawn: JM	Chk: OS	App: JB
Proj. No: K0642	Fig. No: K0642-1003	Rev: P04		