

DUST MANAGEMENT PLAN

Environmental solutions provided to
BRYN RECYCLING LTD

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1.0 INTRODUCTION

This Dust Management Plan (DMP) had been produced in accordance with the Environment Agency's Dust and Particulate Emission Management Plan Guidance, 'Control and Monitor emissions for your environmental permit' (8th November 2018) and relates to the waste materials imported to, and permanently recovered on, this site. 420,000m³ of waste will be recovered for the extension of the materials processing and storage yard at the existing Materials Recycling Facility and for the creation of a screening bund surrounding the southern and southwestern boundaries of this storage yard. The storage yard will be covered with a layer of impermeable concrete and will feature its own surface water storage lagoon.

The DMP identifies the potential sources of dust emissions, the possible impacts associated with dust emissions and details the measures required to prevent and minimise the dust and particulate emissions.

1.1 Dust Management Aims

The aim of the DMP is to:

- Minimise dust generation and migration from the site;
- Ensure dust pollution at local sensitive receptors is minimal;
- Establish a dust minimisation strategy which shall be implemented on site;
- Ensure the operations on site consider the potential dust generation;
- Ensure that site operates within the permitted dust emissions limits.

2.0 SITE SETTING

Bryn Recycling Ltd
Gelliargwellt Farm,
Gelligaer Road,
Hengoed
CF82 8FY

The area in which the waste would be deposited for recovery is within land that makes up part of Gelliargwellt Uchaf Farm. The primary vehicle access is from Gelligaer Road, which is located to the northwest of the site. It also connects neighbouring towns including Gelligaer and Penpedairheol which are located approximately 800m and 2,000m respectively, to the northeast of the site. Penybryn is located approximately 1,300m to the east, with the Penallta Industrial Estate located slightly further east. Caerphilly is located approximately 8.5km south of the site.

The site is bound to the south by agricultural land and Parc Penallta Country Park, which comprises an area of public open space and woodland is located approximately 850m to the southeast. Nelson Bog Site of Special Scientific Interest (SSSI) is located 550m to the southeast of the site. Waun Rydd Site of Importance for Nature Conservation (SINC) is located to the east of the site and Coed Gelliau'r – Gwellt SINC is located immediately adjacent (west) to the site and comprises an ancient woodland.

The list of waste types used on site can be seen in BRY-OP02 Waste Acceptance. However, in brief, the waste material is inert general fill.

2.1 Hours of Operation

Site operational hours for the facility will be as identified below:

Table 1 - Operational Hours

Day(s)	Hours
Monday to Friday	07:00 - 18:00
Saturday	07:00 – 13:00
Sunday and Bank Holidays	Closed

It is considered that the deposit for recovery scheme will take approximately 5 years to complete with an annual throughput of 150,000 tonnes.

2.2 Sensitive Receptors

There are potential sensitive receptors within 1km of the site where waste will be deposited although Greenacres Bungalow and Tophill Cottage (Table 2) are properties owned and managed by Bryn Recycling. The distances from the site to the sensitive receptors are provided in Table 2.

Table 2 - List of Sensitive Receptors

No.	Receptor	Type	Distance from site	Bearing from site
1	Greenacres Bungalow	Residential	182m	NNE
2	Tophill Cottage	Residential	157m	N
3	Tophill	Residential	227m	N
4	Greenhill Primary School	School	704m	ENE
5	Allotments in Gelligaer	Leisure	620m	ENE
6	Gelligaer Village	Residential	748m	ENE
7	Llancaiach Isaf	Residential	612m	SW
8	Llancaiach House	Residential	818m	WSW
9	Llancaiach Fawr Manor	Residential / Commercial	705m	W
10	Highfield Rise	Residential	954m	WNW
11	Colliers Adventure Farm	Leisure	940m	S
12	South Wales Valley Flyers	Leisure	680m	NW
13	Nelson Bog SSSI	Ecological	560m	SSE
14	Ancient Semi Natural Woodland	Ecological	496m	SE

14	Ancient Semi Natural Woodland	Ecological	560m	SSE
16	Ancient Semi Natural Woodland	Ecological	905m	W
17	Ancient Semi Natural Woodland	Ecological	5m	NW
18	Ancient Semi Natural Woodland	Ecological	534m	NNW
19	Ancient Semi Natural Woodland	Ecological	968m	NW
20	Ancient Semi Natural Woodland	Ecological	340m	NW

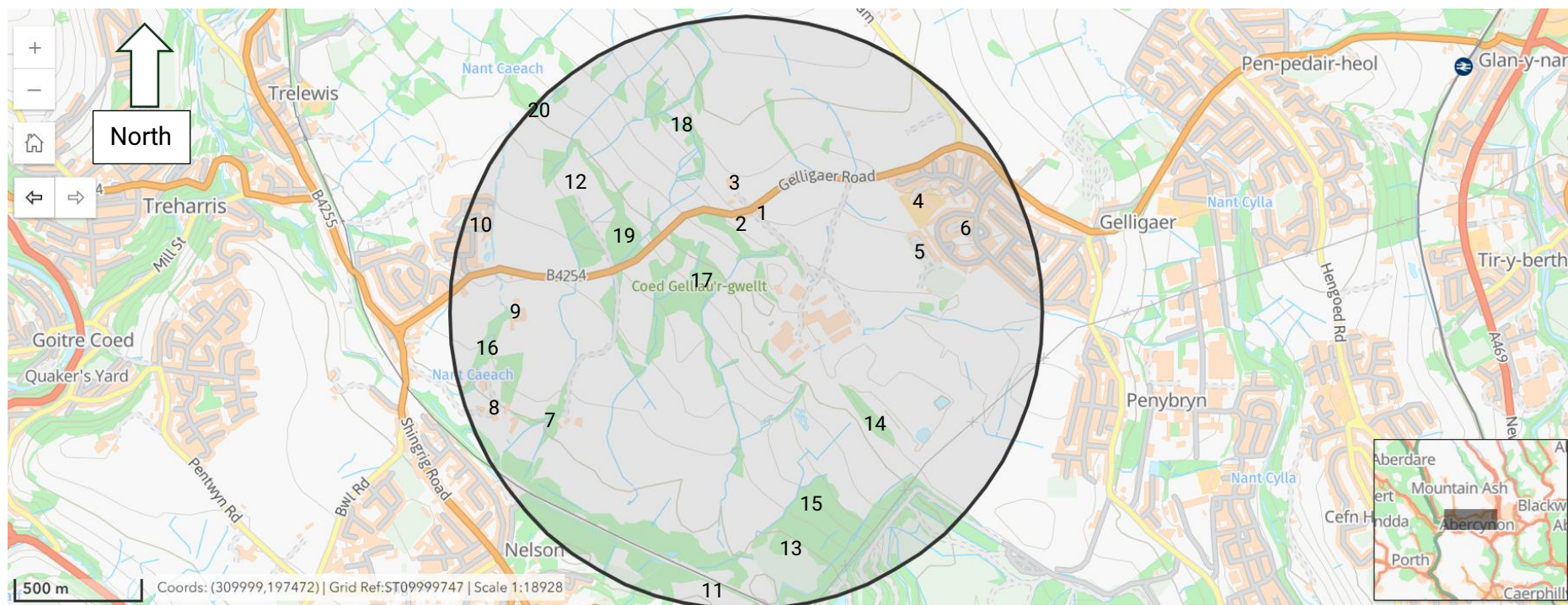


Figure 1 - Map of Sensitive Receptors within 1,000m of Site Boundary

2.3 Impacts

Dusts and powders are not permitted waste types on this site, however, dust may arise from the movement of waste. Potential impacts of dust emissions include a contribution to air pollution and a decrease in air quality through aerial dispersion. See the Risk Assessment below in Table 3, for more information on the risks and impacts.

Table 3 - Environmental Risk Assessment Matrix

Pollutant Model			Judgement				Action	
Source	Pathway	Receptor	P	C	M	Justification of Magnitude	Risk Management	Residual Risk
Airborne dust particulates and microorganisms during the movement, handling and deposition of waste.	Aerial dispersion	Local residents located in Pen y Bryn (ESE, 1.2km) and Gelligaer (ENE, 930m). The general public using nearby footpaths to the north and south of the site. Greenhill Primary school located 765m ENE of the site. Tourist attractions such as Colliers Adventure Farm (S, 1km), Llancaiach Fawr Manor (W, 800m) and Parc Penalta (SE, 1.5km).	Med	Med	Med	Med - Dusts and powders are not permitted waste types on this site, however, dust may arise from the movement of soils and other inert waste. There is the potential for dust exposure for people near the site. The nearest sensitive receptors are approximately 500m away. Potential harm inflicted by airborne dust particulates and microorganisms include respiratory issues and allergic reactions in	- The site has a Dust Management Plan (<i>BRY_B03_Dust_Management_Plan</i>) which details the preventative measures in place for reducing dust and the actions to be taken when there is a dust issue. - The site will be kept clean and dust suppression will be used when required. - Material will be assessed prior to receipt. - Materials will be handled carefully by trained operatives. - Daily site inspections. - Speed limit for vehicles on site. - The Site Manager will carry out a daily visual assessment of dust emission within the site and a continuous dust monitor is used to monitor dust emissions.	Low

Pollutant Model			Judgement				Action	
Source	Pathway	Receptor	P	C	M	Justification of Magnitude	Risk Management	Residual Risk
						humans due to inhalation of dust and exposure to pathogenic microorganisms.		
Airborne dust particulates from the transport of waste materials.	Aerial Dispersion	Local residents located in Pen y Bryn (ESE, 1.2km) and Gelligaer (ENE, 930m). The general public using nearby footpaths to the north and south of the site. Greenhill Primary school located 765m ENE of the site. Tourist attractions such as Colliers Adventure Farm (S, 1km), Llancaiach Fawr Manor (W, 800m) and Parc Penalta (SE, 1.5km).	Med	Low	Low	Low - Limited potential for frequent and long-term exposure for residents close to the site due to location of facility. Potential harm inflicted by airborne dust particulates and microorganisms include respiratory issues and allergic reactions in humans due to inhalation of dust and exposure to pathogenic microorganisms.	- The site has a Dust Management Plan (<i>BRY_B01_Dust_Management_Plan</i>) which details the preventative measures in place for reducing dust and the actions to be taken when there is a dust issue. - Dust generation attributable to vehicle movements will be controlled by the use of water sprinklers on the site access roads. - Vehicles carrying waste to site are sheeted until the point of deposition at the MRF extension site. - Waste carried between the MRF site and the deposit for recovery site is done so in dumper trucks which shall be dampened prior to transport if required. - During dry weather action will be taken to remove dust from the road. - The Site Manager will carry out a daily visual assessment of dust emission within	Low

Pollutant Model			Judgement				Action	
Source	Pathway	Receptor	P	C	M	Justification of Magnitude	Risk Management	Residual Risk
							the site and a continuous dust monitor is used to monitor dust emissions.	
Waste, mud and litter on local roads caused by vehicle movements.	Spillage from waste carrying vehicles or mud from vehicle tyres.	Local drivers and nearby roads.	Med	Med	Med	Med – potential to cause a hazard on the roads, risking the safety of drivers in the area.	- Daily site inspection and cleaning of access roads around the site as necessary. - Wheel wash used to clean wheels prior to departure from site. - The B4254 road is cleaned with a road sweeper if mud/dust is dragged onto the road from the site is detected.	Low
P = Possibility C = Consequence M = Magnitude								

2.4 Wind Direction

The following section identifies the prevailing weather conditions on site, in particular, the wind direction in order to predict the path of likely aerial dispersion of dust generated on site.

Information on wind direction has been derived by Meteoblue from a weather station at Caerphilly, which is located approximately 10km southeast of Gelliargwellt Farm over the last 30 years. This data is illustrated by the wind rose in Figure 2. Figure 2 demonstrates that the predominant wind direction in the region is from a south-westerly direction. The land to the southwest of the site, is used for agriculture. The nearest non-agricultural land use is the village of Gelligaer, approximately 930m to the east-northeast of the site. The nearest sensitive receptor to the site is the Tophill Cottage residential property located approximately 380m to the north of the site. Due to the location of the sensitive receptors and the prevailing wind direction, the sensitive receptors most at risk of being affected by dust from the recovery operation are those in the village of Gelligaer.

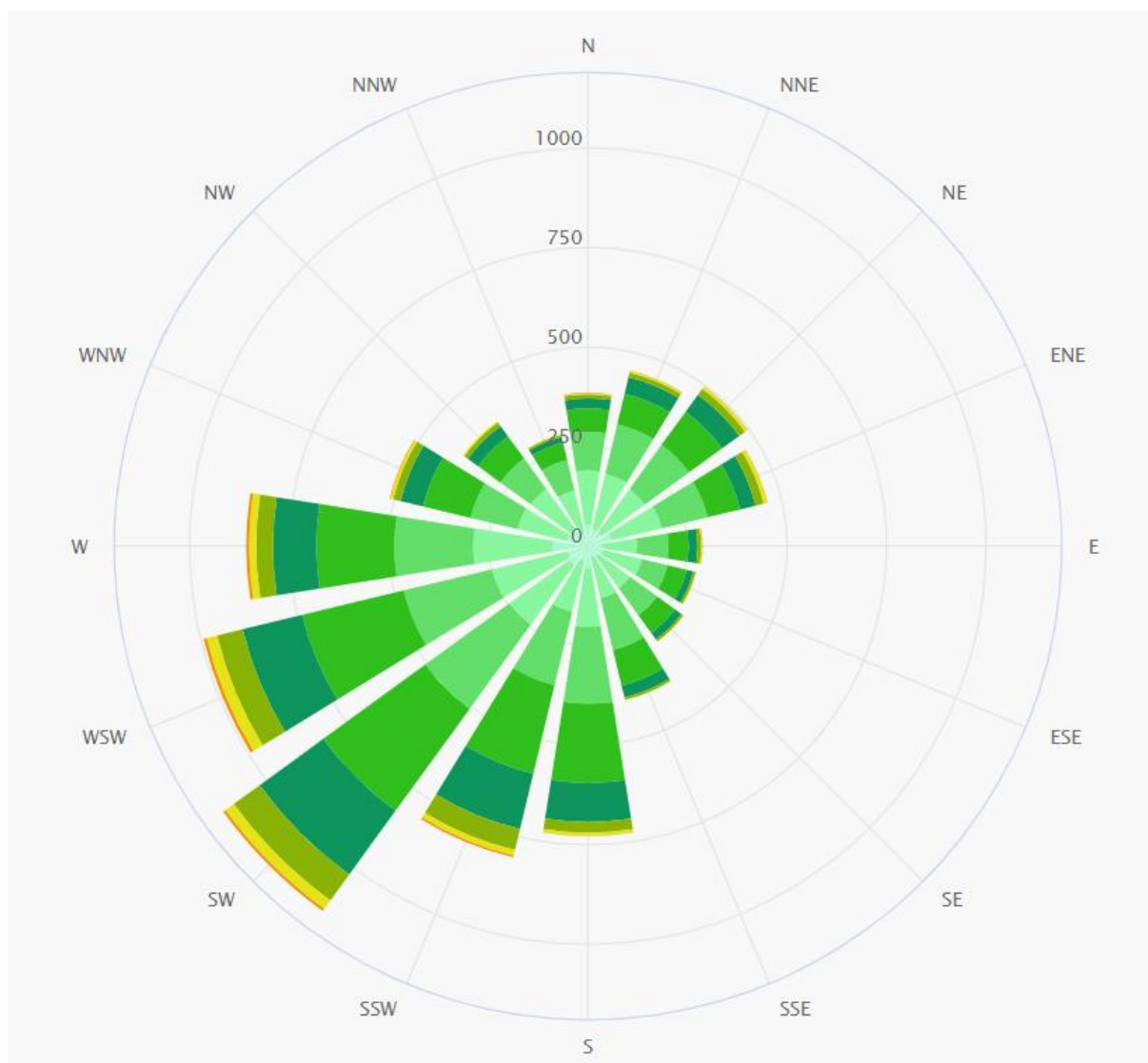


Figure 2 - Windrose showing the number of hours the wind has blown from each direction over the last 30 years at Caerphilly

3.0 DUST CONTROL MEASURES

The following section details the control measures that will be implemented onsite to prevent or minimise dust emissions arising from the potential dust sources onsite.

3.1 Dust Generating Activities on Site

Potential dust emissions from the site may be generated from activities associated with

- Vehicle movement in and out of site and around site
- Handling, moving and tipping of waste
- Wind blowing across waste piles

Dust production may increase during periods of strong winds and/or dry weather.

3.2 Local Contributors of Dust and Emissions

The site is situated within a largely agricultural setting, albeit with a number of activities associated with the wider Gelliargwellt Farm taking place immediately adjacent. This includes the MRF site, composting site, AD site and possibly more importantly the neighbouring active quarry which is less than 500m away to the southeast.

3.3 Methods of Prevention

In order to minimise the dust, potentially generated at the site, the following control measures shall be implemented by the Site Manager to mitigate the effects of potential dust emitting activities identified. General measures will also be taken.

3.4 Vehicle Movements In/Out of Site

- Site access roads and internal roads shall be maintained and checked daily to limit the dust generation related to vehicle movements onsite.
- Mud and debris will be monitored by the site manager and roads will be cleaned when necessary.
- During periods of dry weather or heavy traffic, the site manager will ensure roads are dampened to prevent dust production. This includes the site access road which has a sprinkler dust suppression system on it.
- Vehicles carrying waste to site are sheeted until the point of deposition at the MRF extension site.
- Waste carried between the MRF site and the deposit for recovery site is done so in dumper trucks which shall be dampened prior to transport if required.
- The B4254 shall be cleaned via road sweeper if mud/dust is detected on it.
- There is a wheel wash facility on site to ensure all vehicles leaving site have clean wheels.
- A site speed limit of 20mph will be enforced for vehicles to reduce the likelihood of dust or particulates being emitted into the atmosphere and dispersing further. The speed limit can be reduced during dry weather or strong wind.

- The site will operate a controlled traffic system to limit the amount to vehicle movements on site at any one time to reduce dust production.

3.5 Handling of Wastes

- Waste is to be permanently recovered in one location. Following arrival on site, the waste will be recovered at its final location. No waste will be stored on site prior to recovery.
- The waste soil will be dampened as it is being tipped if required to minimise dust and particulates being emitted into the atmosphere and dispersing.
- The waste will be tipped from a lower drop height to minimise the aerosolization of dust and bioaerosols.

3.6 Wind Action

- As part of the landscaping works, waste recovered will be compacted. This will also act to consolidate the soil and reduce the amount of dust that can be generated by wind.
- During warmer periods the waste will be dampened if required when conditions are dry to prevent dust and bioaerosol particles becoming suspended in the air and dispersing. This should also be undertaken at the end of the working day if conditions are expected to continue to be dry and windy to prevent dust emissions outside of operation hours.

3.7 General Measures

- The Site Manager shall conduct daily visual assessments of dust emissions within the site and at the downwind site boundary. If potential or actual dust issues are identified the appropriate preventative or remedial actions will be implemented as soon as practicable. The most effective action in these scenarios will usually be dampening the affected area with water.
- As mentioned in Section 2.4 above, the sensitive receptors most at risk of being affected by dust from the recovery operation are those in the village of Gelligaer due to proximity and wind direction. Weather conditions will therefore be considered when scheduling site activities. In instances when the wind is coming from the southwest to west-southwest and is blowing at more than 15mph during a prolonged period of dry weather then the site visual assessments will be increased to once every two hours and the conditions of the site monitored to ensure that they are damp but not muddy. If this is not possible due to fixed deadlines, the additional mitigation measure of dampening the waste material and site surface will be implemented.

- The washing of vehicles and roadways onsite to mitigate dust generation from vehicles.
- Operatives are instructed to handle the waste carefully and consider dust production before moving waste.
- Clean water is used for dust suppression to avoid recirculating fine material.
- There is an anti-idling policy on site. All machines have an anti-idle mode which means that if there is no action for 5 minutes they automatically turn off. All machines are also turned off during set break times. All vehicles bringing waste to site will be switched off when not in motion or operation.

3.8 Suspension of Activities

The Site Manager shall decide when site activities will have to be suspended due to excessive dust generation. As per 3.7 the Site Manager will visually assess the dust emissions each day and will use their observations to make this judgement. This could also be impacted by weather conditions on the day. There is a dust monitor present on site which will alarm if high dust levels are reached, and site activity will pause. Additionally, in the case of unfavourable weather conditions, site activities will also be suspended until the weather conditions change. The unfavourable weather conditions are as follows:

- 4 days of continuous dry weather; and
- Windspeed greater than 15mph; and,
- Wind blowing from the southwest.

Should all of the above occur at the same time, site activities will stop and will not recommence until one of the conditions changes. The on-site weather station records all of the above and this will be used daily by the Site Manager to determine whether activities need to be suspended or can be re-started.

3.9 Dampening

Dampening of waste material will be carried out in the following situations:

- During periods of dry weather, such as during summer;
- During unloading, when the soil being imported has been identified as having the potential to create dust;
- When dust emissions are observed by the Site Manager during the visual assessment or by operatives;

- When dust emissions have been observed outside of the site boundary during the daily visual inspection;
- In response to any complaints received about dust from the site; and,
- When significant dust is observed on the site during routine site inspections.

3.10 Identification of Dusty Loads

All waste materials brought onto site are done so in covered vehicles. All loads are inspected at the weighbridge by the weighbridge operator using the camera situated there. As part of the waste acceptance procedure, the weighbridge operator asks the vehicle driver to remove the cover to inspect the waste. Should the weighbridge operator see dust being blown off the load in the vehicle, the load will be considered dusty and will be rejected.

4.0 MONITORING AND REPORTING

4.1 Dust Monitoring

Dust monitoring will be carried out at four locations on the site boundary daily as part of a routine visual inspection of the site, the location of which can be seen in Figure 3 below. Observations will be recorded and kept onsite. The dust monitoring form can be seen in Section 5 below.

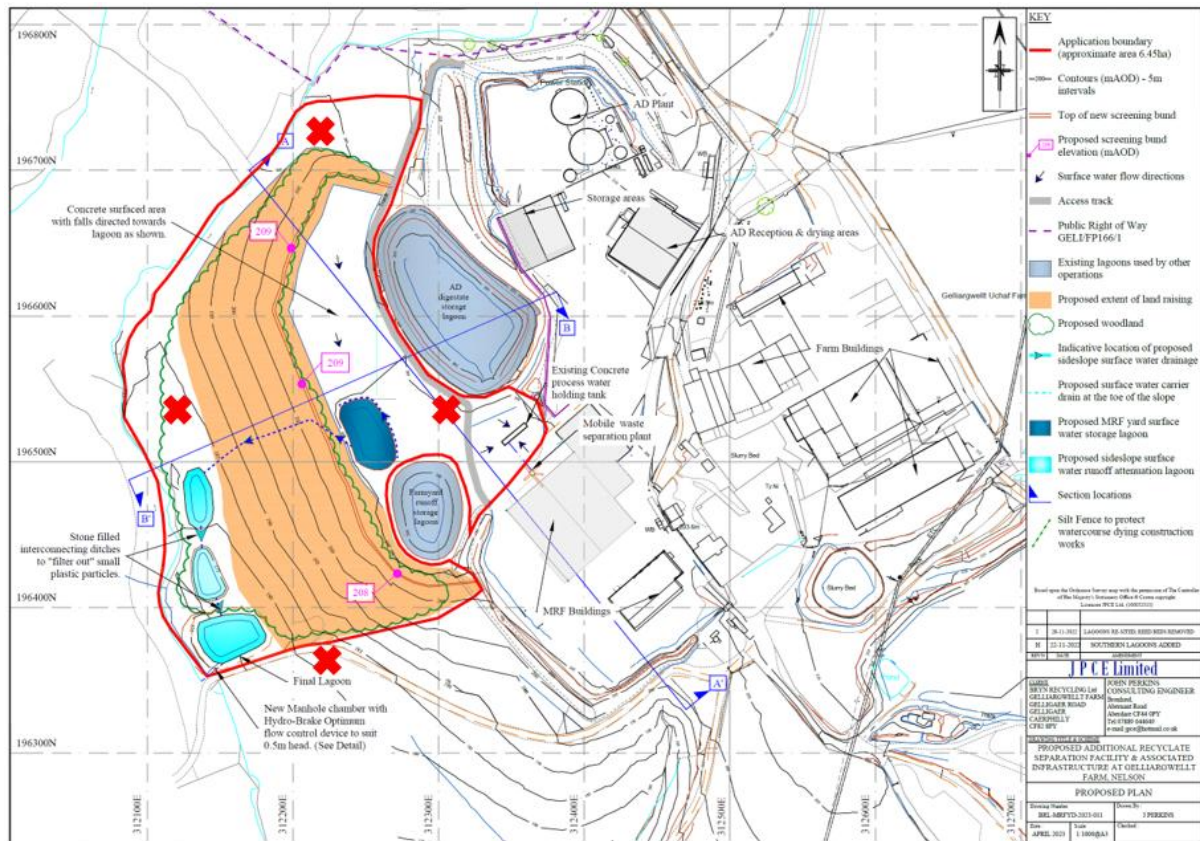


Figure 3 - Dust monitoring locations

Site operatives will report any significant dust or particulate emissions that occur during the handling or movement of waste to the Site Manager. Where dust emissions are high during the handling or movement of waste, operations will cease, and the site boundary will be inspected to ensure that dust isn't being emitted from the site. If dust emissions are observed outside of the downwind site boundary, then material shall be dampened before works can recommence.

Dust monitoring shall be carried out during operational hours, when waste is being imported to site and used in landscaping works, when the potential for dust generation is greatest. Where regular complaints are received over a two-week period the dust mitigation measures will be reviewed.

The site operative will record the dust monitoring results including the dates, times, wind direction, weather conditions and observations. These records shall be retained onsite. Wind direction and weather conditions are recorded and stored by the on-site weather station. As per the monitoring form, should dust be seen to be in the air at the monitoring location, details such as the apparent source of the dust is noted. Should it be considered that the site

activities are the source of the dust at the site boundary, the actions presented in Section 4.2 below shall be taken. There is no requirement to increase the frequency of the monitoring due to the presence of the continuous dust monitor. Where regular complaints are received over a two-week period the dust mitigation measures will be reviewed.

Additionally, as part of quarrying activities, Bryn Aggregates have agreed with Caerphilly County Borough Council (CCBC) to assess total dust, PM10/PM2.5/PM1 concentrations using a Turnkey Osiris real-time dust monitor. CCBC have their own login for the monitor and the live data is also publicly available via the Bryn Group website. The monitor is located in a field to the east-northeast of the quarry, immediately west of the houses on Brynheulog Street (see yellow cross in Figure 4 below).



Figure 4 - Location of Turnkey Osiris real-time dust monitor

The data is recorded every minute and the monitor sends an alarm when the limits are breached. An alarm goes off when the average concentration for PM10 or PM2.5 is above 40ug/m³ for 5 minutes whilst the wind direction is between 180° to 270°. An alarm also goes off when the average concentration is above 200ug/m³ over a 24-hour period whilst the wind direction is between 180° to 270°.

The data is summarised into a report on weekly basis and sent to the Operator who stores this on site. Copies of the report are available to CCBC on request. If dust complaints are received, the data from the corresponding period will be investigated.

The monitors are compliant with the Environment Agency MCERTS certification scheme and includes an anemometer to collect wind speed and direction data. The monitor's location was determined by Airshed, based on the highest risk sensitive receptor.

In case of high levels of complaints at a time when the continuous monitor has not raised any alarms, directional dust is monitored using DustScan (sticky pad) directional dust samplers. Being cylindrical, the samplers collect dust from 360° around the sampling head and, as set out below, the data are reported in discrete 15° intervals (i.e. 0 – 15°, 15 – 30° and so on).

Dust settlement is also monitored using DustScan DustDisc samplers. This sticky pad deposited dust monitor collects dust falling out of the air and depositing onto a horizontal surface. The samplers are installed in accordance with best practice guidance (including M17) and the supplier's instructions and are located away from nearby obstructions to ensure a clear air flow to the monitoring head.

4.2 Response to Dust Events

Where the level of dust is considered high i.e. when the continuous monitor alarm is raised or when dust is detected at the site boundary monitoring locations and the deposit for recovery activities are considered to be the source, the Site Manager will conduct an investigation to identify the cause of the dust emissions.

If the dust emissions are attributed to an activity on the site and mitigation measures have failed, the activities that are the source of the emissions will cease until remedial measures have been implemented. Visual monitoring will be increased as necessary along the site boundary until the dust problem is resolved.

Where dust emissions are continually identified as excessive on site and the continuous monitors alarm is raised or when complaints are repeatedly received, the Site Manager will review the mitigation measures and monitoring strategy detailed in this Dust Management Plan to prevent emissions from being released from the site.

Due to the remote location of the site, the likelihood of dust and particulate emissions impacting sensitive receptors in close proximity to the site is considered low, therefore no additional forms of dust monitoring are proposed for this site.

4.3 Community Liaison

Should there be any issues relating to dust emanating from the quarry site during the deposit for recovery activities, Bryn Recycling shall message the new community notification WhatsApp group and leave a message on the local community Facebook page. These messages shall detail the specific issue and the action being taken by Bryn Recycling.

4.4 Training

Bryn Recycling shall provide the necessary training on dust management to ensure that staff to carry out their roles in line with the DMP and minimise complaints in the form of a toolbox talk on the details of the DMP. Training should be reviewed annually, at a minimum, and more frequently if a need for training becomes apparent. Any new staff joining Bryn Recycling will be required to undertake training as part of an induction. Records of training shall be stored in the site office. This Dust Management Plan shall be reviewed annually or after a significant dust emission event, whichever occurs first.

4.5 Recording

The dust monitoring results from the daily inspection including the dates, times, wind direction, weather conditions and observations will be recorded and retained on the site. See Section 5 for the recording form. The completed recording forms shall be stored in the site office.

4.6 Complaints

All complaints received concerning dust emissions from the site will be dealt with in accordance with the company's environmental management system complaints procedure.

Bryn Recycling will decide and implement any necessary action in response to any complaints or concerns expressed by interested parties, including operatives, customers, clients and regulatory authorities.

The operator shall record the:

- Name and contact details of the person who expressed concern or made a complaint;
- Specific subject(s) of the concern or complaint;
- The source / location of where the complaint comes from;
- Date and time communicated to the producer and name of the person to whom it was communicated;

- Nature and date(s) of any actions and checks and who carried them out;
- Nature and date of any response to the person who expressed a concern or made the complaint; and,
- Name of the person who communicated the response.

The complaint form can be seen in Section 6 below.

Upon receipt of a complaint regarding dust, Bryn Recycling will open an investigation. The investigation will look into the site operations at the time of the complaint, weather conditions at the time of the complaint and any other points of note such as off-site activities being undertaken at the time of the complaint.

Following the investigation, corrective actions will be taken to reduce / eliminate the release of dust following the mitigation measures set out in Section 3 as necessary. Where mitigation measures are unsuccessful, the site activities will be stopped on the instruction of the Site Manager until the wind direction changes or the cause of the dust release is identified and corrected.

Each complaint will be treated in the same manner, on a case-by-case basis. Bryn Recycling will complete the complaint form within 48 hours of receipt of the complaint. The completed complaint form shall be stored in the site office.

If Bryn Recycling receive more than 5 dust complaints in a 2-hour period, all site activities will be suspended and an investigation shall be carried out immediately. If the investigation determines that the deposit for recovery activity is not the cause of the dust, activities shall recommence. If the deposit for recovery activity is determined to be the cause of the dust, the mitigation measures set out in Section 3 shall be followed. Where mitigation measures are unsuccessful, the site activities will remain suspended until the wind direction changes or the cause of the dust release is identified and corrected.

Natural Resources Wales shall be informed of any emissions, not controlled by an emissions limit, which have caused, is currently causing or may cause significant pollution. Complaints received by Natural Resources Wales relating to dust emissions from the site will be dealt with as soon as practicable upon notification.

4.7 Responsibility

The Site Manager is responsible for this Dust Management Plan and the procedures within it. Should the Site Manager be away from the site, responsibility will rest with the designated deputy.

5.0 DUST MONITORING FORM

Dust Monitoring Report Form				Date:
Time of test				
Location of test e.g. street name				
Weather conditions (dry, rain, fog etc)				
Temperature (very warm, warm, mild, cold or degrees if known)				
Wind strength (none, light, steady, strong, gusting). Use Beaufort scale if known				
Wind direction (e.g. from NE)				
Is dust present in the air?				
Duration (of test)				
Constant or intermittent in this period				
What does it look like?				
Receptor sensitivity (see below)				
Is the source evident?				
Any actions required?				
Any other comments or observations?				

6.0 COMPLAINTS FORM

Date:		Ref No.	
Name, address and phone number of complainant.			
Time and date of complaint.			
Date, time and duration of offending dust release.			
Weather conditions (e.g., dry, rain, fog, snow).			
Wind strength and direction (e.g. light, steady, strong, gusting).			
Complainant's description of dust: -Duration -Constant or intermittent			
Has complainant any other comments about the offending dust release?			
Any other previous known complaints relating to installation (all aspects, not just dust).			
Any other relevant information.			
Potential dust sources that could give rise to the complaint.			
Operating conditions at the time offending dust release occurred.			
Action taken			
Final outcome			
Form completed by (signed):			

7.0 SITE LAYOUT PLAN

