

Overview

This procedure provides an overview of all the necessary environmental monitoring procedures and controls to ensure compliance with the Site Environmental Permit.

1. Dust, Fibres and Particulates

1.1 Environmental Dust Monitoring

Occupational and environmental dust is a potential issue at site. The key dust generating activities are related to the shredding of materials. The site has a number of dust mitigation measures in place to manage dust related impacts.

The shredder has a built-in dust suppression system to mitigate any dust emissions from the process. All waste processing takes place within the Processing Building. No external processing will take place on site.

Dust levels will be monitored by a visual assessment to be undertaken on a daily basis by a competent person and be overseen by the Site Manager. It is the duty of all site operatives to be vigilant and report any problems immediately to the competent person who will implement corrective action. The Site Manager is responsible for recording the details relating to the findings of the visual assessment in the site diary.

In the unlikely event that visible aerial emissions of dusts, particulates and fibres persist beyond the site boundary, the Site Manager will ensure that immediate corrective action is taken and Natural Resources Wales is notified accordingly.

1.2 Offsite Impacts and Monitoring

Under normal operation it is considered highly unlikely that there will be any offsite dust impacts, however in the event of any internal or external complaints the site management will carry out a full investigation to understand the validity of the complaint.

All complaints will be logged in a central file, investigated by the site manager (or their delegate) to establish the nature of the complaint and the operating conditions at the time of the complaint.

If the complaint is substantiated the site will review operating practices on site to establish the root cause of the incident.

Where deemed necessary the site shall carry out third party dust measurements at the site boundary and receptors to further establish impacts, root cause and potential mitigation measures.

Author / Function or Department:	Process Owner / Department: Site Manager

2. Noise

Noise is not considered to be a significant potential source of pollution to the environment.

The main source of noise at the site will include:

- Delivery/collection vehicles;
- Processing Plant;
- Site vehicles.

The following procedures will help minimise noise emissions:

- All machinery will be turned off when not in use;
- Operation of plant and machinery will take place during permitted hours only; and
- Outside the specified hours for deliveries, all roller shutter doors in the main building will remain closed.

2.1 Environmental Noise Monitoring

Noise will be checked as part of the twice daily site walkover checks.

Additionally, during times when potentially noisy equipment is being used (i.e Rotorshredder) a trained site operative will check that no noise can be heard at the site boundary point nearest to the closest receptors.

In the event that excessive noise is identified, the operations will cease, and the noise will be investigated.

The site has a simple indicative noise meter on site for the monitoring of equipment and plant noise. This equipment shall be used on an “as required” basis.

In the event of a noise complaint, all operations on site will be immediately ceased and the complaint investigated. All procedures and the ‘Nav Stock’ system will be reviewed to investigate what machinery was being used at the time of the complaint.

The Noise Management Plan would then be reviewed for its effectiveness at mitigating noise and further mitigation measures included, if considered necessary.

2.2 Occupational Noise Monitoring

Occupational noise and vibration presents a significant health and safety risk to all personnel on site.

Occupational monitoring of a Significant Exposure Groups (SEGs) will be carried out periodically (at least bi-annually) to monitor and risk assess the exposure levels of the personnel.

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3. Odour

The site does not include any activities that may give rise to odour. However, it is acknowledged that any sites involving the processing of any wastes can give rise to odour impacts in the event that odourous materials are brought onto site.

All loads shall be inspected prior to acceptance. No malodourous wastes will be accepted onto site.

The site has a detailed Odour Management Plan as part of Mekatek's Environmental Management System. Please refer to this for more information on the sites odour mitigation.

Odour shall be monitored monthly at points around the site boundary and observations shall be noted in the site diary and/or on a daily monitoring document.

If any odour is detected and is judged to be moderate (Odour Intensity Rank 3) then the Site Manager will be notified immediately and the olfactory survey will continue to attempt to determine the scope and extent of the odour plume, as follows:

- A suitable location downwind of the site and potentially sensitive receptor at which the odour plume is unlikely to extend will be selected for assessment;
- Survey will continue toward the facility until a site-related odour is perceived; and
- Assessment points perpendicular to the plume axis and equidistant from the site will then be monitored, subject to access requirements.

The main aim of monitoring will be to test if any odours emitted from the site will be causing the nearest receptors nuisance. In scenarios where nuisance is being caused then operations will be suspended until the conditions improve. The Site Manager may deem it necessary to find the precise source of the odour and attempt to eliminate it or neutralise it immediately.

Records shall be maintained and include the following details:

- Results of inspections and olfactory monitoring carried out by site personnel;
- Weather conditions including wind speed and wind direction;
- Operational problems including date, time, duration, prevailing weather conditions and cause of problem;
- Complaints received including address of complainant (if available);
- Details of corrective action taken, and any subsequent changes to operational procedures; and
- An evaluation of the effectiveness of control and abatement techniques used.

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4. Weather Monitoring

The following meteorological conditions will be recorded in the event of a complaint (noise, odour or dust):

- Temperature;
- Prevailing wind direction; and
- General weather conditions.

All weather conditions shall be recorded within the Site Diary.

5. Visual Inspection

All areas if the site shall be visually inspected and monitored for the following:

- Evidence of site security breaches;
- Escape of waste;
- Escape of dust / dust nuisance;
- Presence of elevated fire risk / storage issues;
- Presence of litter;
- Presence of vermin;
- Control of waste stock piles (height, location etc).

Table 1: Site Environmental Monitoring Summary

Parameter	Purpose	Freq	Location	Responsibility	Comment
Dust, fibre and particulates	Visual inspection required to ensure that visible dust is not migrating off site	Daily	Not specified	Site Manager	Any visible emissions will need to be reported within the site diary.
Noise	Monitored as part of the site walkover checks and when noisy equipment is being used	Daily	TBC	Site Manager	Recorded in the site diary and complaint form.
Odour	Monitoring required to ensure that there are no odour emission resulting from the processing activities on site.	Daily	TBC	Site Manager	Recorded in the site diary.
Groundwater	None required	None	N/A	N/A	No physical groundwater monitoring required.
Surface Water	Visual inspection required to ensure that site drainage is not being impacted by processing activities on site.	Daily	Drainage channels	Site Manager	No physical sampling required. Visual inspection only.
Weather	General weather conditions to be recorded on site in event of complaint	As required	Not specified	Site Manager	Recorded in the site diary and complaint form.
Visual	Visual inspection of: <ul style="list-style-type: none"> • Evidence of site security breaches; • Escape of dust / dust 	Daily	Site wide	Site Manager	Recorded in the site diary.

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