



Sensitive Receptors Plan

Berkswell Recycling Limited

Berkswell Quarry, Cornets End Lane, Meriden, Coventry, CV7 7LH

1. Site Overview

Operator: Berkswell Recycling Limited **Site:** Berkswell Quarry **Address:** Cornets End Lane, Meriden, Coventry, West Midlands, CV7 7LH **Permit:** EPR/DB3508MA (active) **Primary activity:** Biological treatment of non-hazardous waste (>75 t/day) including recovery operations (composting, green-waste processing). **Local Authority:** Solihull Metropolitan Borough Council

The site is located within an established quarry and waste-management cluster, with nearby landfill and aggregate operations also present on Cornets End Lane.

2. Purpose of This Plan

This Sensitive Receptors Plan identifies all human, environmental, ecological, and infrastructure receptors that may be affected by emissions from green-waste operations at Berkswell Quarry. It supports the Environmental Risk Assessment required under the Environmental Permitting Regulations and aligns with the Environment Agency's expectations for biological-treatment sites.

3. Receptor Identification Method

Receptors were identified using:

- A **250 m core zone** for bioaerosols (EA standard for composting sites)
- **500 m and 1 km zones** for odour, dust, noise, and traffic
- Publicly available environmental-permit consultation data for this site
- Mapping of local land uses, watercourses, and ecological designations
- Known industrial and landfill operations on Cornets End Lane

4. Sensitive Receptors (Site-Specific)

4.1 Human Receptors

Distances are approximate and based on mapping of Cornets End Lane and surrounding settlements.

Residential

- **Farm and outbuildings Mercote Farm** 250 m west
- **Meriden village** – approx. 900–1,200 m west
- **Hampton-in-Arden** – approx. 1.5–2 km south



- **Isolated farmhouses** along Cornets End Lane – 400–600 m
- **Properties near Berkswell** – approx. 1.5–2 km north-west

Public Access

- Public footpaths and bridleways surrounding the quarry perimeter
- Users of Cornets End Lane (walkers, cyclists, horse riders)

Workplaces / Industrial

- Adjacent **HD Ricketts landfill and aggregates operations** on Cornets End Lane (active)
- Other quarry-related businesses in the immediate area

4.2 Environmental Receptors

Surface Water

- Local drainage ditches within and around the quarry
- Small watercourses feeding into the River Blythe catchment (sensitive ecological corridor)

Groundwater

- The quarry sits within a region of mixed groundwater vulnerability; no SPZ1 is immediately adjacent, but groundwater protection remains relevant due to biological treatment activities.

Flood Risk

- The site is generally elevated; no major fluvial flood risk zones intersect the operational area.

4.3 Ecological Receptors

- **River Blythe SSSI** – approx. 1.5–2 km east (high-value habitat)
- **Berkswell Marsh SSSI** -approx 400m south
- **Local woodland blocks** surrounding the quarry
- **Hedgerows and farmland habitats** supporting protected species
- **Potential bat foraging corridors** along tree lines

4.4 Infrastructure Receptors

- **Cornets End Lane** – primary access road
- **Local utilities** (overhead lines, drainage infrastructure)
- **Adjacent quarry and landfill operations** (noise-sensitive interactions)

5. Pathways for Impact

Airborne

- Odour from green-waste decomposition
- Dust from shredding, screening, and vehicle movements
- Bioaerosols from compost turning
- Litter (light plastics, green-waste fragments)

Waterborne

- Runoff from stockpiles
- Leachate from composting pads
- Fuel or oil spills from plant and machinery

Noise & Vibration

- Shredders, screeners, loading shovels
- HGV movements on Cornets End Lane

Land

- Contamination from poor storage or spills
- Mud tracking onto public roads

6. Risk Assessment Summary (Site-Specific)

Receptor	Pathway	Potential Impact	Likelihood	Consequence	Risk Rating	Mitigation
Isolated dwellings (250–600 m)	Odour, dust, noise	Nuisance	Low–Medium	Medium	Medium	Turning controls, misting, restricted hours
Meriden village (900+ m)	Odour, dust	Low nuisance	Low	Low	Low	Good housekeeping, odour checks
Public footpaths	Dust, noise	Disturbance	Low	Low	Low	Water suppression, bunds
River Blythe catchment	Runoff, leachate	Pollution	Low	High	Medium	Sealed drainage, leachate management
Adjacent landfill/aggregate sites	Dust, noise	Cumulative impacts	Medium	Medium	Medium	Coordinated operations, dust suppression
Local woodland	Dust, noise	Habitat disturbance	Low	Medium	Low	Vegetation buffers



Receptor	Pathway	Potential Impact	Likelihood	Consequence	Risk Rating	Mitigation
Berkswell Marsh SSSI	Dust, run-off	Damage to habitat	Low	medium	low	Impermeable surface and sealed drainage dust suppression

7. Mitigation & Control Measures

Odour

- Rapid processing of incoming green waste
- Maintain optimal composting conditions (temperature, moisture, aeration)
- Turning only during favourable wind conditions
- Daily odour checks and complaint log

Dust

- Water suppression on haul roads and during dry weather
- Enclosed or shielded shredding where possible
- Speed limits on site roads
- Regular sweeping of hardstanding

Bioaerosols

- Maintain 250 m separation from sensitive receptors
- Misting systems during shredding and turning
- Limit turning frequency to operational necessity
- Bioaerosol monitoring required by permit

Noise

- Restrict noisy activities to daytime hours
- Use quieter plant where possible
- Acoustic bunds and natural screening from quarry walls
- Regular maintenance of machinery

Water Protection

- Sealed drainage system
- Leachate collection and controlled discharge
- Bunded fuel storage
- Spill kits and trained staff

8. Monitoring & Review

- Daily odour and dust inspections



- Weekly housekeeping checks
- Annual review of receptor changes (e.g., new housing)
- Bioaerosol monitoring if required by EA
- Noise monitoring if complaints occur
- Review of EA consultation outcomes for permit variations (e.g., EPR/DB3508MA/V009)

9. Conclusion

Berkswell Recycling Limited operates within an established quarry and waste-management area, with relatively few close residential receptors. The main sensitivities relate to:

- Odour and bioaerosols
- Dust and noise
- Protection of nearby watercourses feeding the River Blythe SSSI

With the mitigation measures outlined, risks can be managed to acceptable levels consistent with Environment Agency permitting expectations.