

For Denbighshire County Council

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# Colomendy Waste Transfer Station Noise and Vibration Management Plan

Report for Denbighshire County Council

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**Front cover photography:** Denbighshire Council Logo, Eunomia Logo

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# Version Control Table

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V1.0	28/06/2022	Laura Williams	First draft (issued to client)
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V2.1	18/08/2023	Rebecca Southall	Updates following NRW RFI
V3.0	01/09/2023	Rebecca Southall	Third draft (issued to client)

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## 1.0 Introduction

This noise management plan (NMP) has been compiled for Denbighshire County Council's (DCC) Colomendy waste transfer station (WTS) 'the site'. This document, which will form part of the site's management system, has been produced in accordance with Natural Resources Wales' (NRW) guidance on 'How to Comply with your Environment Permit'<sup>1</sup>, 'Noise and vibration management – environmental permits'<sup>2</sup> and to supplement the site's Environment Risk Assessment.

The objective of this plan is to identify and minimise the risks of noise and vibration from the site activities and to describe the appropriate measures that are in place to prevent or, where that is not practicable, to minimise the presence of noise which is likely to cause pollution, hazard or annoyance outside the boundary of the site.

Other aspects that this NMP will cover include:

- Monitoring;
- Actions plans in the event of noise nuisance;
- Allocation of responsibilities; and
- Review schedule for assessing effectiveness of the measures within this plan.

## 2.0 Site Background

### 2.1 Introduction

The site is operated by DCC, who are the permit holder. The site operates as a waste transfer station and depot, accepting a range of material streams from local residents and from small commercial waste operators for processing (sorting and baling), as well as highways material. The site is permitted to accept up to 55,000 tonnes of material per year.

### 2.2 Site Setting

The WTS is situated on Colomendy industrial estate located off the Ffordd Y Graig Road in Denbigh. The site is on an industrial estate situated between farmland to the north and east, commercial premises to the south-east and south, and an aggregate quarry to the west. Beyond the commercial premise to the south and southeast, there are residential properties within 1km, whilst to the west (and within 1km), woodland surrounds the quarry, including two Sites of Special Scientific Interest (SSSI) within 2km.

### 2.3 Site Layout

The layout of the site is shown in Figure 2-1.

### 2.4 Operating Times

The site operating times are:

- Monday - Saturday 06:00 - 19:00
- Sunday 09:00 - 16:00

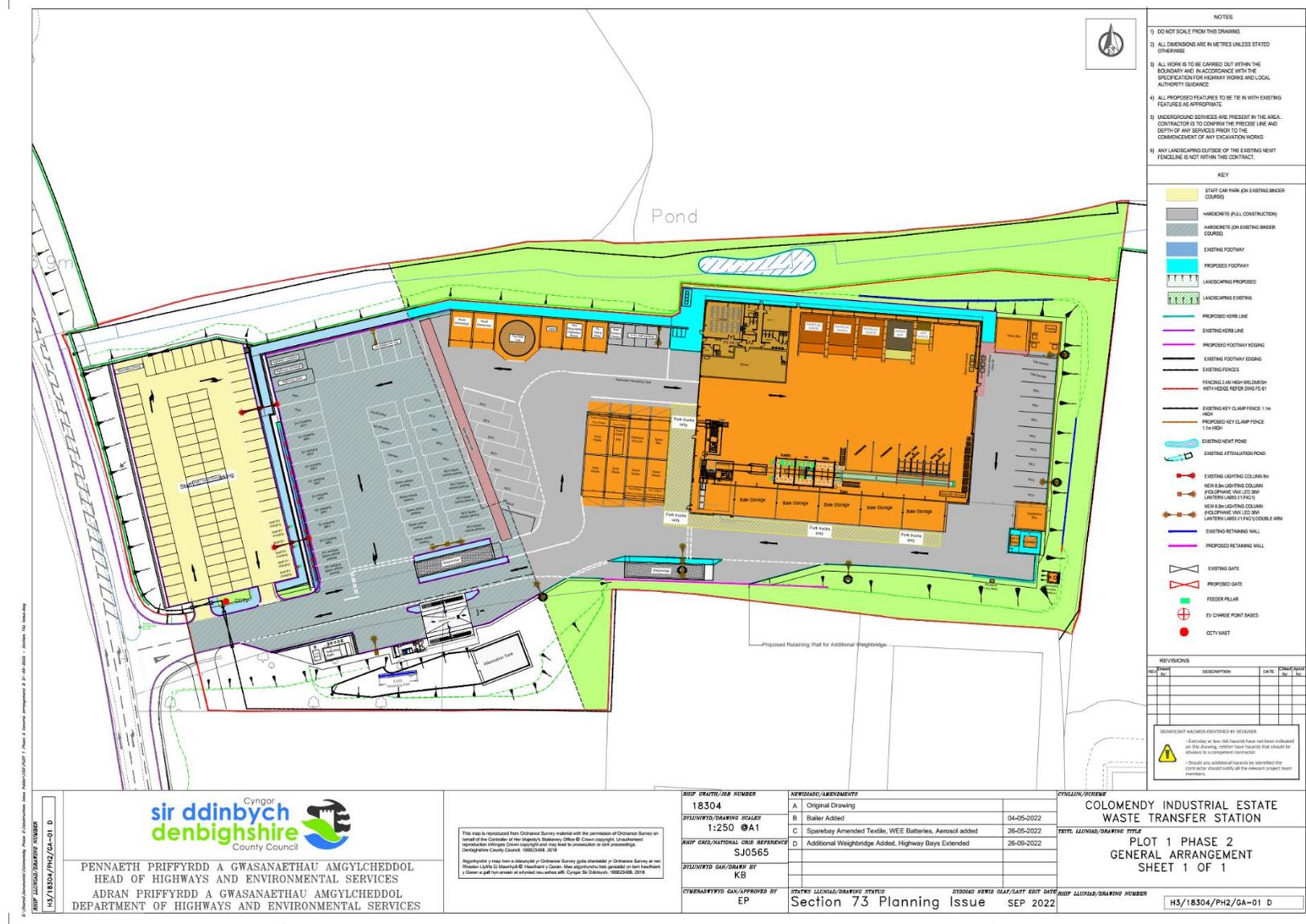
No operations take place on Christmas and New Year's Day.

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<sup>1</sup> <https://naturalresources.wales/permits-and-permissions/environmental-permits/guidance-to-help-you-comply-with-your-environmental-permit/?lang=en> (last accessed 23/06/2022)

<sup>2</sup> <https://www.gov.uk/government/publications/noise-and-vibration-management-environmental-permits> (last accessed 23/06/2022)

**Figure 2-1: DCC Colomendy WTS Layout**



The working area of the site has impermeable surfacing and is accessed via a gate to the south west of site, from Graig Road. The site comprises of:

- The main waste transfer building, containing:
  - Bays for residual waste, paper, absorbent hygiene products (AHP) container, cardboard, mixed metals and plastics and sorted metals and plastics;
  - A sorting line;
  - Two balers; and
  - Office and welfare facilities.
- External sheds containing:
  - Gully waste, recyclable highways waste and green waste bays;
  - Food waste sealed skip area;
  - Vehicle wash; and
  - Bale storage.
- In addition to the waste mentioned above, there are external bays for glass, spare materials, fly-tipped waste, topsoil, non-recyclable highways waste, road sweepings, containers for textiles, Waste Electrical and Electronic Equipment (WEEE), batteries and aerosols and a dedicated quarantine bay.
- The site has two weighbridges.
- There is parking for waste fleet vehicles and separate staff parking.
- To the north of the site is a firewater supply tank.

## 2.5 Waste Activities

Activities that take place on site include:

- Unloading and unloading of waste material;
- Sorting;
- Baling; and
- Storage.

Waste operation name	Description of the waste operation	Annex I or Annex II (disposal and recovery) codes
Colomendy Waste Transfer Station	Transfer of waste: household commercial and industrial  Transfer of waste: hazardous	<b>R3:</b> Recycling/reclamation of organic substances which are not used as solvents <b>R4:</b> Recycling/reclamation of metals and metal compounds <b>R5:</b> Recycling/reclamation of other inorganic materials <b>R13:</b> Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) <b>D9:</b> Physico-chemical treatment not specified elsewhere in Annex II which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12 <b>D14:</b> Repackaging prior to submission to any of the operations D1 to 13 <b>D15:</b> Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)

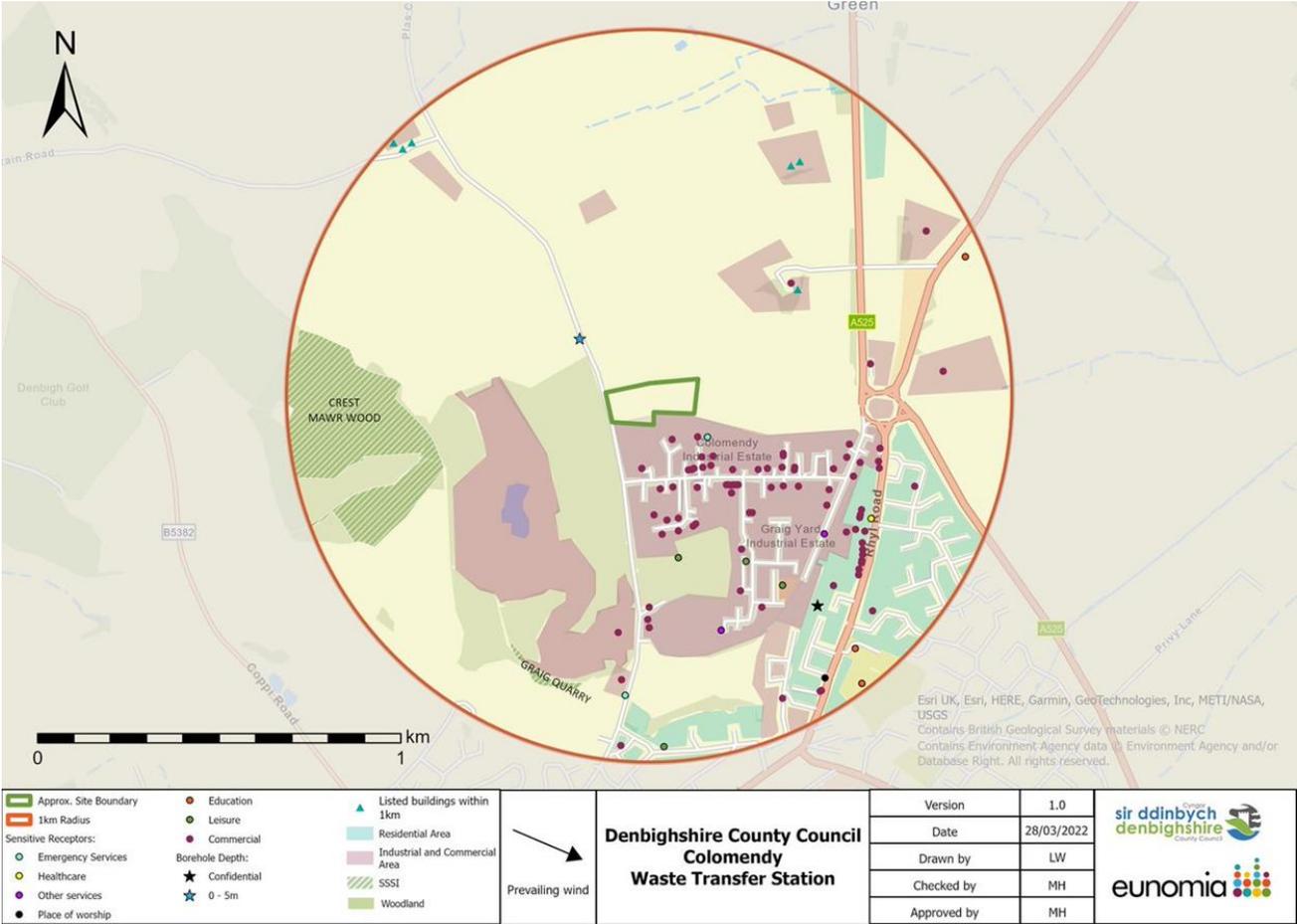
### **3.0 Sensitive Receptors**

A map of the sensitive receptors within 1km of the site is detailed in Figure 3-1. The sensitive receptors that are most likely to be affected by a noise emission incident have been identified. These receptors may need to be contacted during an incident with updates on the expected duration. The contact details for these receptors can be found in Appendix 7.1.

In the event of a significant noise emission incident, DCC will use its website and social media channels to communicate information with sensitive receptors throughout the borough. DCC officers may also visit adjacent or high risk sensitive receptors to deliver the message in person.

The potential impact on these receptors is also assessed within the separate Environmental Risk Assessment which forms part of the site's management system.

**Figure 3-1: Surrounding Land-use and Sensitive Receptors within 1km of the Site<sup>3</sup>**



<sup>3</sup> There are no other SSSIs within 2km other than those shown in this 1km boundary

## 4.0 Potential Noise Sources

Noise impact assessments were carried out at the nearest sensitive receptors to the site using appropriate measurement equipment, to the standards defined by BS 4142 at both the planning and permitting stages. Based on these noise impact assessments, operation from the development is likely to have a low impact during the operational daytime periods at the nearest noise sensitive receptors. The site is based in an industrial area and the noise generated by Colomendy WTS would not be a new type of noise source for the surrounding receptors.

It is therefore not anticipated that noise levels would be excessive or a cause for pollution or nuisance under normal conditions, with appropriate measures in place.

Copies of the noise impact assessments can be found in the site's management system.

### 4.1 Identification of Sources

Sources of noise at site include:

- Plant and machinery;
- Site transport; and
- Waste material acceptance.

### 4.2 Preventative and Control Measures - Normal Conditions

Appropriate measures will be taken in order to minimise the noise emissions from the site, following the hierarchy as defined in the EA/NRW's 'Noise and Vibration management: Environmental Permits' guidance:

- **Prevent** the generation of noise;
- **Minimise** or contain noise at source;
- Use **effective silencers**, barriers or enclosures;
- Use **sympathetic timing** for unavoidably noisy operations; and
- Increase the **distance** between the source and the receptors.

#### 4.2.1 Plant and Machinery

All plant and machinery sourced will be appropriately designed, well-maintained and subject to a maintenance/ servicing schedule to prevent noise arising from malfunction. Daily pre-use inspections are to be carried out on all plant and machinery and any faults or issues found are to be reported to the site manager. Records of these daily inspections and the scheduled maintenance will be kept in the site office.

Fixed plant on site includes the baler and sorting line. These are situated within the main building. When operational, roller shutter doors to the building will be closed to reduce the noise levels audible from outside the building. The doors will only be opened to allow vehicle access. This will be intermittent throughout the working day for short periods of time, estimated in the noise impact assessments to be ~1 minute per hour. The plant will only be operated during the site's opening times, as defined in the site's Operating Techniques.

All plant and machinery will be switched off when not in use, to prevent unnecessary noise.

#### 4.2.2 Site Transport

Speed limits of 10 mph will be implemented for vehicles using the site. Drivers are instructed on arrival at site to keep engine revving to a minimum. Horns will be used when entering the

buildings and turning corners for safety reasons and only within operational hours. Vehicles will be switched off when not in use.

#### *4.2.3 Waste Material Acceptance*

Some wastes can be noisy to load or unload. At the site, glass waste is the only waste subject to additional health and safety controls for tipping, due to the noise levels emitted. Glass will be tipped in an external bay to prevent excessive noise impact to operatives working within the building. As will all the external bays, the glass bay has 5m high concrete walls to act as a noise barrier and acoustic cladding panels. The specification for these walls can be found in Appendix 7.2.

Noise from the loading and unloading of glass will be intermittent throughout the working day. Glass collections occur twice weekly and take about 30 minutes. The glass bay is located away from the most sensitive receptors to further minimise disruption. Material will only be tipped in or loaded from this bay during operating hours.

There is also an extension to the northern wall (bringing it to 7m total) to mitigate any noise spread from the buildings to the north of the site.

### 4.3 Preventative and Control Measures - Abnormal Conditions

#### *4.3.1 General Procedure*

In the event that significant noise is observed on site, or in the event that significant levels of noise are observed outside the site boundary, action will be taken. The source of the noise will be identified and depending on the severity of the noise, the noisy activity will either be reduced, altered or stopped until circumstances have changed, or other appropriate measures have been put in place (e.g. erecting noise screens or moving the activity to another area of the site).

Abnormal conditions that may arise include:

- Machinery breakdown;
- Planned or unplanned maintenance;
- Weather conditions; and
- An incident on site.

#### *4.3.2 Machinery Breakdown*

All plant and machinery sourced will be appropriately designed, well-maintained and subject to a maintenance and servicing schedule to prevent noise arising from malfunctioning plant or machinery. Should an item of machinery breakdown, the machinery will be switched off, isolated and corrective action taken. The machinery will not be used until repairs have been carried out. This will be within 72 hours under normal circumstances. If the plant cannot be repaired within this timeframe, additional plant may be hired to cover. Depending on the nature of the fault, the item of plant or machinery may be replaced or subject to increased maintenance or servicing to prevent reoccurrence.

#### *4.3.3 Planned or Unplanned Maintenance*

In the event of any temporary noisy works scheduled at site, e.g. site maintenance, the nearest sensitive receptors will be notified as to the nature and expected duration of the work and reasonable steps will be taken to reduce the impact of the noise, such as enforcing restricted hours of maintenance, if appropriate, or installing noise barriers.

#### *4.3.4 Weather Conditions*

The site buildings and mobile plant will have adequate ventilation systems to prevent the need to open sound-proofing windows or doors in hot weather.

#### 4.3.5 Other Incidents

Should an incident occur on site that is likely to cause noise pollution, e.g. a fire or a break-in that triggers an alarm, the sensitive receptors will be notified of the cause and expected duration, if appropriate, following the procedures in the site management system and Operating Techniques.

### 5.0 Monitoring and Responsibilities

Noise monitoring will be undertaken:

- in line with preventative measures;
- in order to assess how successful the operational management and mitigating control measures are at the facility;
- to identify whether noise is causing a potential nuisance; and
- to ensure that appropriate remediation measures are adopted early.

Monitoring will be undertaken by trained, designated staff. All depot staff will be trained on all procedures in the NMP. This will form part of their training matrix. Depot staff will take turns in undertaking the daily checks.

All site personnel will be responsible for reporting any problem noise identified during their day to day operations and for carrying out the procedures in Section 4.0.

Parameter	Monitoring Technique	Frequency	Responsibility
Subjective Noise Monitoring	Site perimeter and off site checks (along the site perimeter).  In line with EA/NRW guidance: 'Noise and vibration management – environmental permits'	During normal operating conditions: <ul style="list-style-type: none"> <li>• Daily</li> </ul> During an incident or abnormal operating conditions: <ul style="list-style-type: none"> <li>• Frequency of monitoring will be increased until incident is resolved</li> </ul>	Trained, designated staff members.
Complaints Monitoring	Logged and actioned as in Section 6.0	<ul style="list-style-type: none"> <li>• Ad-Hoc/ following incidents.</li> </ul>	Site manager
Review the effectiveness of the NMP	This NMP will be reviewed for effectiveness and continuous improvement.	In lieu of no complaints: <ul style="list-style-type: none"> <li>• Annually</li> </ul> After a complaint that was substantiated: <ul style="list-style-type: none"> <li>• Immediately following a complaint at the Facility.</li> </ul>	Site manager

The site manager is responsible for periodically reviewing the NMP and updating this procedure with any changes required or following a significant odour emission incident.

To maintain continuous improvement, as part of the annual review of the NMP - or sooner, if a review is prompted by an incident - all complaints and incidents will be reviewed and operations, infrastructure and training needs will be revised in line with these, with the aim of improving operations on site.

#### 5.1 Auditory Monitoring

As part of the daily inspections, appropriately trained and experienced site personnel will carry out subjective auditory monitoring around the site. The monitoring results will be

recorded on the site daily inspection sheet and site diary, which forms part of the site's management system.

During normal operating conditions noise monitoring will take place daily. This will be at various times during the day to avoid bias from regularly monitoring at the same time (e.g. always monitoring outside of the loading/unloading window).

During abnormal operating conditions noise monitoring will take place at least twice a day. The frequency of monitoring can be further increased until the incident is resolved or in case of a noise complaint.

Noise monitoring will be carried out in accordance with the recommendations detailed in the guidance 'Noise and vibration management – environmental permits'.

Any instances of noise being perceived to be above acceptable levels, either during the daily subjective noise monitoring or at any other time, will be reported to site management. The site manager will take action to find the source of the noise and mitigate it as appropriate using the procedures in section 4.3.

If required, specialist noise monitoring or mitigation advice will be sought by a qualified third party contractor.

Daily checks will be kept on record for 3 years, the site diary will also be updated with any issues and kept for three years.

## **6.0 Complaints**

In the event of a noise complaint, investigations will commence immediately to identify the source of the noise. These investigations will be carried out by the site manager and will:

- ensure noise management procedures are in place for the source noise;
- check if noise management procedures have failed; and
- note the impact of the noise emissions.

Should the investigation identify that remedial action be taken, the procedure in Section 4.3 will be followed.

A record of the complaint and investigation will also be made in DCCs corporate customer service software, that demands a response and follow up to complaints. Complaints are to be responded to within 10 working days. Investigations are carried out and appropriate measures put in place to prevent reoccurrence, and reviewed with the aim of improving operations on site.

Details of complaints, investigations and actions will be made available to NRW on request.

Information will be provided to the local neighbours regarding the point and method of contact for the site in the event of a complaint or if they want to discuss any activities at the site.

- The neighbours can be advised that any complaints or concerns will be addressed immediately following identification and notification, and contingency action implemented;
- The neighbours can be advised of any corrective action and a follow up call carried out if required.

The primary point of contact at the site for complaints and liaison with the neighbours is the site manager who will ensure that the recording, investigation and close out of complaints is undertaken as described above and in accordance with company management procedures.

## 7.0 APPENDICES

### 7.1 List of Sensitive Receptors

**Table 7-1: Sensitive Receptor Contact Details**

Contact Name	Contact Number	Location/Address
21st Webb	0333 366 1289	Unit 1, Spencer Trading Estate, Rhyl Rd, Denbigh LL16 5TQ
Acre House Equestrian	0174 581 6628	Unit 2, Spencer Trading Estate, Rhyl Rd, Denbigh LL16 5TQ
A & D Motor Cycles Ltd	0174 581 5105	Spencer Trading Estate, Rhyl Rd, Denbigh LL16 5TQ
Adjustamatic Beds Ltd	0800 080 5000	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TS
AG Leisure	0792 004 7435	AG leisure Unit 7E, Denbigh LL16 5TA
ALDI	0800 042 0800	Station Rd, Denbigh LL16 3AL
Aqualeisure	0174 581 5476	Unit 7 G&H, Colomendy Ind Estate, Denbigh LL16 5TA
Baa Stool Ltd.	0182 479 0882	13 Colomendy industrial estate, Rhyl Rd, Denbigh LL16 5TA
ATS Euromaster Denbigh	0174 581 2217	Colomendy industrial estate, Rhyl Rd, Denbigh LL16 5TA
Beth's Sandwich Bar	0174 581 4647	Maldwyn Williams Garage Services, Rhyl Rd, Denbigh LL16 5TH
Birch Hire	0174 581 3583	Colomendy industrial estate, Rhyl Rd, Denbigh LL16 5TA
Blind Solutions Ltd Workshop	01745 815549	Denbigh LL16 5TS
Brady Global Ltd	01745 814 978	34 Bryn Gwyrdd, Colomendy Ind Est, Denbigh LL16 5TA
BrickPlus	0174 547 2150	Colomendy Ind Estate, 34 Bryn Gwyrdd, Denbigh LL16 5TA
Breedon Denbigh Quarry Aggregates	0174 527 4830	Plas Chambres Road, Denbigh LL16 5US
CAD RECYCLING LTD	0174 581 2661	Spencer Trading Estate, Unit 5 & 6, Rhyl Rd, Denbigh LL16 5TQ
Capel Y Fron	None available	41 Rhyl Rd, Denbigh LL16 3DT
Cake to Cake	0796 698 9583	9 Ffordd Celyn, Denbigh LL16 5UU
Castle Steel Fabricators	0174 581 3341	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Catalyst Systems	01745 816611	Unit 15b, Colomendy Industrial Estate, Denbigh LL16 5TA
Celtic Dreams	0174 581 3245	Dyffryn Trading Estate, Rhyl Rd, Denbigh LL16 5SU
Clwb Rygbi Dinbych	0174 581 4060	Ffordd Y Graig, Denbigh LL16 5US
Clwyd Wood Products	0174 581 2010	Rhyl Rd, Denbigh LL16 5TH
Clwydian	0174 581 6720	Clwydian, Rhyl Rd, Denbigh LL16 5TH
Clwydian Leasing	0174 581 6720	Rhyl Rd, Denbigh LL16 5TH
Con Amici	0174 581 4444	Rhyl Rd, Denbigh LL16 3DS
CVAM Ltd	0174 581 6775	Rhyl Rd, Denbigh LL16 5SU
D Jones Plant Hire & Sales Ltd	0174 581 5554	Unit 5, Colomendy Ind Est, Rhyl Rd, Denbigh LL16 5TA
DAS Outdoors	0174 581 4978	Colomendy industrial estate, 34 Bryn Gwyrdd, Denbigh LL16 5TA
DB Touring	0778 744 6658	Dyffryn Trading Estate, Rhyl Rd, Denbigh LL16 5SU
Denbigh Ambulance Station	01824 706000	Denbigh LL16 5TD
Denbigh Auto Body	0174 581 5559	Ffordd Y Graig, Denbigh LL16 5US

Contact Name	Contact Number	Location/Address
Denbigh Building Plastics Limited	0174 581 8849	Colomendy industrial estate, Rhyl Rd, Denbigh LL16 5TA
Denbigh Carpet & Bed Centre	0174 581 7034	Dyffryn Trading Estate, Rhyl Rd, Denbigh LL16 5SJ
Denbigh Locksmiths	0781 385 0008	Unit A1/Trem y Dyffryn/Erw Las/Colomendy Ind Est, Denbigh LL16 5TX
Denbigh Plant Services - Denbigh	0174 581 4762	Unit 10B, Colomendy Industrial Estate, Denbigh LL16 5TA
Denbigh Museum	0174 581 4323	Grove Rd, Denbigh LL16 3UU
Denbigh waste and recycling park	01824 706000	Ffordd Colomendy, Denbigh LL16 5TA
Denbighshire Antiques	0174 581 8888	Rhyl Rd, Denbigh LL16 3DY
Denbighshire Leisure Ltd	None available	Colomendy industrial estate, 8-11 Trem Y Dyffryn, Denbigh LL16 5TA
Denbighshire Music Co-operative	0174 581 3542	1, Spencer Trading Estate, Rhyl Rd, Denbigh LL16 5TQ
Dovecote Brewery	0790 895 7116	Unit 2 Enterprise Centre, Colomendy Industrial Estate, Denbigh LL16 5TA
Drysuit Doctor	0174 581 5476	Colomendy Industrial Estate, Units G & H 7, Denbigh LL16 5TA
E. Jones & Son	0174 581 5717	Denbigh LL16 5US
Emyr Evans	0174 581 2333	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
ForFarmers	0174 581 6391	Denbigh LL16 5TD
G & G Motors NW Ltd	0174 581 2483	Colomendy industrial estate, Bryn Gwyrdd, Denbigh LL16 5TA
Glyn Evans Autoclinic Ltd	0174 581 5141	Erw Las, Colomendy industrial Estate, Denbigh LL16 5TA
Graig Motors	0174 581 5606	Graig Yard, Graig Road, Denbigh LL16 5US
Happy Homes Furniture Factory	0174 581 2377	Denbigh LL16 5TD
Harrison Machinery Ltd	0182 470 7003	Cae Gwyn Farm, Mold Road, Denbigh LL16 4BH
Henllan Bakery	0174 581 2671	Colomendy industrial estate, 1, Rhyl Rd, Denbigh LL16 5TA
Howdens – Denbigh	0174 581 7484	Colomendy industrial estate, Unit 10 Rhyl Rd, Denbigh LL16 5TA
J & G Tyres	0174 581 7676	Unit 1, Dyffryn Trading Estate, Rhyl Rd, Denbigh LL16 5SJ
Humphreys Signs Ltd	0174 581 4066	Rhyl Rd, Denbigh LL16 5TA
Jewson Denbigh	0174 581 2606	Colomendy industrial estate, Rhyl Rd, Denbigh LL16 5TA
Lawson Civil Engineering & Utilities Ltd	0174 581 4681	Graig Farm Buildings, Graig Road, Denbigh LL16 5US
Londis	0174 581 6524	Denbigh LL16 5SU
Mac3	0174 581 6266	B12, Colomendy Industrial Estate, Trem Y Dyffryn, Denbigh LL16 5TX
Maldwyn car wash	01745 812542	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Malmö International	None available	Colomendy Ind Estate, 34 Bryn Gwyrdd, Denbigh LL16 5TA
Marg's Takeaway	0174 581 7080	1 Rhyl Rd, Denbigh LL16 5TA
Malpas Tractors	0174 581 7060	33a, Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Maldwyn Williams Ltd Garage Services	0174 581 2542	Maldwyn Williams Garage Services, Rhyl Rd, Denbigh LL16 5TH
Mars-Jones Ltd	0174 581 8721	Vale Park Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA

Contact Name	Contact Number	Location/Address
Mason's Arms	0174 581 2831	Rhyl Rd, Denbigh LL16 3DT
Meifod Wood Products	0174 581 6900	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Meirion Davies & Co	0174 581 2400	2 Colomendy Industrial Estate, Rhyl Road, Denbigh LL16 5TA
MGM-Worktops	0174 581 2532	Morris Granite & Marble, Denbigh LL16 5TA
MJ Driver Training	0174 581 3226	29 Llys Gwydyr, Denbigh LL16 3ET
Monster Munchiez Cafe	0788 549 3071	Colomendy industrial estate, Unit 1 Enterprise Centre, Denbigh LL12 5TA
Morris E G	0174 581 3272	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Nixon Plumbing & Heating	0174 528 4700	Colomendy Industrial Estate, Unit 1 Norparc, Denbigh LL16 5TA
NHC Technology Ltd.	0174 581 1200	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TS
North Wales Police	0330 330 0101	Ffordd Y Graig, Denbigh LL16 3YB
Oelheld UK Ltd	0174 581 4777	Unit 16, Colomendy Industrial Estate, Denbigh LL16 5TA
Oshwash	0756 851 2024	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Pen-Y-Bryn Joinery Ltd	0174 581 5481	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Plas Eleri Nursing Home	0174 581 4613	Denbigh LL16 5SY
Pressed 2 Perfection	0174 579 8055	Denbigh LL16 5TX
Pro Finish Cosmetic Car Repairs	0757 688 4976	Dyffryn Trading Estate, Rhyl Rd, Denbigh LL16 5SU
R R Auto	0758 674 6122	Unit 8c, Denbigh LL16 5SU
Ravenscroft & Thackeray Fine Foods	0174 581 8900	Colomendy industrial estate, Cranswick House, Denbigh LL16 5TA
R Smith & Son	0174 581 2043	Coal Yard, Ffordd Y Graig, Denbigh LL16 5US
Rich Thomas Personal Training	0774 800 2273	Unit 3, Speddyd Industrial Units, Llandyrnog, Denbigh LL16 4LE
Riley Land Rover	0747 342 2588	Dyffryn Trading Estate, Rhyl Rd, Denbigh LL16 5SJ
Rizzi	0174 581 2548	Fron Eirian/Rhyl Rd, Denbigh LL16 5TG
Ruthin & Denbigh Gymnastics Club Ltd	0777 907 9838	Colomendy Industrial Estate, Erw Las, Denbigh LL16 5TA
Sam's cafe	0739 596 2724	Sams Cafe, Spencer Industrial Estate, Denbigh LL16 5TQ
Screwfix	0333 011 2112	Unit 3, Retail Park, Denbigh LL16 3AL
Shell	0174 581 6524	Rhyl Rd, Denbigh LL16 5SU
Shorecliffe Training	0174 581 5977	Colomendy industrial estate, Rhyl Rd, Denbigh LL16 5TA
Simply Fish & Chips	0174 581 2999	31 Rhyl Rd, Denbigh LL16 3DT
St. Brigid's School	0174 581 5228	Plas Yn Green, Denbigh LL16 4BH
Star Premier Stores	0174 579 7026	3EA, Rhyl Rd, Denbigh
Telsol	0174 581 4678	23-24 Colomendy Industrial Estate, Rhyl Road, Denbigh LL16 5TA
The Garment Spa	0174 581 3312	Vale Park Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA
Travis Perkins	0174 581 3332	Colomendy industrial estate, Plot 10C, Denbigh LL16 5TA
Vale Of Clwyd Memorials	0174 581 5770	Colomendy Industrial Estate, Rhyl Rd, Denbigh LL16 5TA

Contact Name	Contact Number	Location/Address
W T Pritchard Ltd	0174 581 2047	Veterinary Centre/Colomendy Ind Est/Rhyl Rd, Denbigh LL16 5TA
Welsh Adventure Racing	0174 581 8893	Denbigh LL16 5TL
Welsh Health Supplies	0174 581 8200	Denbigh NHS Stores/Colomendy Ind Est/Rhyl Rd, Denbigh LL16 5TA
Visage Beauty Salon	0174 581 2215	Maes y Mes/Rhyl Rd, Denbigh LL16 5TH
Y Bwthyn Bach	0174 581 2311	5 Frances Ln, Saundersfoot SA69 9HB
Wern Vets	0174 581 2336	Rhyl Rd, Denbigh LL16 5TH
Ysgol Frongoch County Primary School	0174 581 2410	Ffordd, Rhyl Rd, Denbigh LL16 3DP
Ysgol Twm O'r Nant	0174 581 2261	Ty'n Fron School Annexe/Rhyl Rd, Denbigh LL16 3DP
Ty'n Yr Eithin	0174 581 3211	Mold Rd, Denbigh LL16 4BH

## 7.2 Firewall Specifications

  
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# PRESTRESSED CONCRETE PANELS

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- ✔ Panel Thicknesses 100mm to 280mm
- ✔ Custom Lengths up to 7m
- ✔ 20kN/m<sup>2</sup> Surcharge Capacity
- ✔ C60 Concrete Mix Strength
- ✔ Installation Service Available

## Features

Corner angles can be supplied to create bays of any height with ease.

Horizontal and vertical joints between the precast elements can be sealed, enabling these products to be used for the storage of liquids.

Wall units are manufactured under factory-controlled conditions, designed to relevant British Standards and are CE marked.

The prestressed concrete panels are suitable for a wide range of applications including:

- Fire & Blast Walls
- Flood Defence Walls
- Grain Walling
- Storage Bays
- Dairy & Livestock Buildings
- Silage Clamps
- Bund Walling

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# PRODUCT SPECIFICATIONS

Below is a table outlining the characteristics of the prestressed concrete panels.

Here you can find information on concrete strength, material density and surcharge capacity.

Wall units are manufactured under factory control, have been designed to relevant British (BS) standards and are CE marked.

If you require any further details please contact us and one of our product experts will be happy to provide more information.

<b>Concrete Strength</b>  Compressive strength of concrete after 28 days of curing.	<b>C60</b>	<b>Material Density</b>  Maximum material density of retained material, measured in kN/m <sup>3</sup>	<b>18</b>	<b>Surcharge Capacity</b>  Maximum surcharge capacity of precast element, measured in kN/m <sup>2</sup>	<b>20*</b>	<b>Design Life</b>  Number of years precast element has been designed for.	<b>100*</b>
<b>Connection</b>  Precast elements interlock with tongue and groove edges.		<b>Edge Detail</b>  Chamfered edges create softer sight lines & reduce damage during installation		<b>Concrete Finish</b>  Smooth mould finish Type A to precast element, defined in British Standards	<b>A*</b>	<b>Fire Resistance</b>  Number of minutes precast element would provide fire resistance.	<b>180*</b>
<b>Reinforcement Cover</b>  Minimum cover to steel reinforcement in precast element, measured in mm.	<b>25</b>	<b>Tolerances</b>  Typical manufacturing tolerances & dimensional variations +/- in mm.	<b>6</b>	<b>Foundation Type</b>  Panels fixed to steel columns, no additional foundation required.	<b>N/A</b>	<b>Retained Face</b>  Double Load - Precast element is suitable for retaining material on both faces	<b>DL</b>

\* These are the maximum values that can be achieved with concrete panels, this will vary depending on the panel thickness & panel length. Concrete panel finish is class A to the front face and hand trowel finish to the back face.

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# PRODUCT RANGE

There are four standard width options and three height options. Non-standard heights can be manufactured from 500mm to 1500mm.

Installation of the concrete panels is quick and easy, the elements can either be positioned into the web of a steel column, or clipped to the outside face. The panels require a steel at each end to attach to, so ideal for using in portal frame building. The panels sit directly on top of the pad foundations and no additional support is required under the panels.

**100mm**



Width **100mm**  
Length **1000mm – 6500mm**  
Height **1000mm, 1200mm & 1500mm**  
Weight **Varies**

**150mm**



Width **150mm**  
Length **1000mm – 7000mm**  
Height **1000mm, 1200mm & 1500mm**  
Weight **Varies**

**180mm**



Width **180mm**  
Length **1000mm – 7000mm**  
Height **1000mm, 1200mm & 1500mm**  
Weight **Varies**

**280mm**



Width **280mm**  
Length **1000mm – 7000mm**  
Height **1000mm, 1200mm & 1500mm**  
Weight **Varies**

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