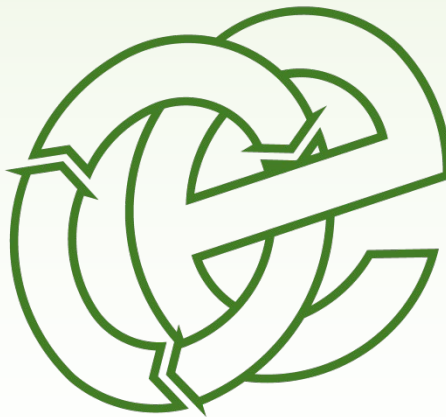


# NOISE & VIBRATION MANAGEMENT PLAN

Moss Road, Lyon Road Industrial Estate, Kearsley, Bolton, Lancashire, BL4 8NB

**Circle Recycling Limited**

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**Oaktree Environmental Ltd**  
Waste, Planning & Environmental Consultants



Oaktree Environmental Ltd, Lime House, 2 Road Two, Winsford, Cheshire, CW7 3QZ  
Tel: 01606 558833 | Fax: 01606 861183 | E-Mail: sales@oaktree-environmental.co.uk | Web: www.oaktree-environmental.co.uk  
REGISTERED IN THE UK | COMPANY NO. 4850754

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# **1 Introduction**

## **1.1 Site history / background**

- 1.1.1 Oaktree Environmental Ltd have prepared a Noise & Vibration Management Plan (NVMP) for their site situated at Moss Road, Lyon Road Industrial Estate, Kearsley, Bolton, Lancashire, BL4 8NB.
- 1.1.2 Circle Recycling Limited currently operate Environmental Permit (EP) Ref EPR/FB3801TR which will be a household, commercial & industrial (HCI) waste transfer station with treatment. The permit was originally issued on 26/10/2018 as a SR2015No4.
- 1.1.3 This NVMP will therefore assess further risks arising from the section above and allow Circle Recycling Limited to provide mitigation measures. The measures outlined in this NVMP will be put in place by site management of Circle Recycling Limited to ensure noise and vibration is controlled using Best practicable means (BPM) to ensure the receptors listed in Section 2.2 below are not affected by the above proposals.

## **1.2 Site location**

1.2.1 The site is located at Moss Road Lyon Road Industrial Estate, Kearsley, Bolton, Lancashire, BL4 8NB. The national grid reference for the site is SD 74429 44360.

1.2.2 The site is accessed from Moss Road off the Lyon Industrial Estate. Surrounding land is predominantly industrial to the north, east and south; the site also borders the M61 motorway to the west. Surrounding properties comprise industrial and commercial premises and the nearest residential properties lie approximately 250m to the east of the site.

## **1.3 Facility overview**

1.3.1 The site is currently operating as a household, commercial and industrial (HCI) waste transfer station. A recent permit variation has been submitted to the EA to enable the storage and treatment of such wastes externally. It must be noted that the treatment of mixed HCI wastes will take place internally.

1.3.2 The current building will be used for the tipping, storage and treatment of all incoming waste material and the external yard area will be used for the storage of separated recyclable materials and minor crushing activities. The location of the operational storage areas shown on Drawing No. LRIE/2948/03 which is presented at Appendix I.

1.3.3 This N&VMP accompanies a Noise Impact Assessment (NIA) which has been produced on request from the Environment Agency (EA) as the operator is seeking to vary the permit which may lead to an increase in noise arising from the site:

- i) Install a mechanical treatment plant for waste sorting where only manual methods are currently undertaken;
- ii) The throughput of the above activity will be increased from 75,000 tonnes per annum (tpa) to <150,000 tonnes per annum.
- iii) Some storage, transfer and treatment of will take place externally and not inside a building.

## **1.4 Waste Storage, Types and Quantities**

- 1.4.1 The locations of the operational and storage areas are shown on Drawing No. LRIE/2948/03.
- 1.4.2 The site will accept <150,000 tonnes of waste per annum.
- 1.4.3 The waste types handled on site will be household, commercial and industrial wastes as defined in the Controlled Waste (England and Wales) Regulations 2012 and Section 75 of the Environmental Protection Act 1990. A detailed breakdown of the waste types allowed for acceptance at the site is shown in Appendix III of this EMS.
- 1.4.4 A maximum of 100 loads could be tipped at the site in any one working day. Such loads will be delivered to and removed from the site by way of fixed body, 8 wheeled tipper vehicles which can carry loads of up to 18-20 tonnes.

## **1.5 Hours of operation**

- 1.5.1 The site will be open during the following hours for the delivery, receipt and processing of waste:

Monday to Friday	06.00 – 20.00
Saturday	06.00 – 14.00
Sundays, Bank/Public holidays	Closed

- 1.5.2 The only activities on site which will be permitted outside of these hours are onsite maintenance works, emergency deliveries of waste/plant/machinery and general office use. During times where the site is closed or not in operation, the site will be locked and secured to prevent unauthorised vehicular and/or pedestrian access.



## **2 Sensitive Receptors**

### **2.1 Receptor Plan**

2.1.1 A sensitive receptors plan (SRP) has been produced to accompany this NVMP and is shown in Appendix I referenced as on Drawing No. LRIE/2948/04. The receptors highlighted are those which are at risk by noise generated from the site.

### **2.2 List of receptors**

2.2.1 The receptors illustrated in the Receptor Plan are detailed in the table below with approximate distances to them. Receptors which are over 500m have not been included within the table below as it is considered that they will not be affected by any noise pollution arising from the site.

**Table 2.1 – Distances to Selected, Representative Sensitive Locations**

<b>Boundary</b>	<b>Receptor</b>	<b>Approximate distance from boundary of site (m)</b>
North	Residential dwelling off Moss Road	180
East	Residential dwellings off Mossfield Road	230
East	Residential dwellings off Springfield Road	250
East	Woodbridge College	290
East	Residential dwellings off Waverly Avenue	305
East	Residential dwellings off Iris Avenue	325

## 2.3 Other noise sources

2.3.1 Other industrial / commercial land uses which will contribute to the background noise level are tabulated below in Table 1.4 below.

**Table 2.2 – Other Noise Emitting Operators**

<b>Company</b>	<b>Address</b>	<b>Type of Business</b>	<b>Approximate distance &amp; location from site boundary (m)</b>
Cautrac	Moss Road, Kearsley, Bolton, BL4 8NE	Construction Machinery and Equipment sales/hire	Adjacent north
PHS Treadsmart	Unit 36 Moss Road, Kearsley, Bolton, BL4 8NB	Carpet Retail Shop	Adjacent south
David Woods Foods	Industrial Estate, Unit 14 Lyon Road, Kearsley, Bolton, BL4 8NB	Food producer	10m east
Charlton Sweeper Hire	Unit 91 Moss Road, Kearsley, Bolton, BL4 8HS	Plant and machinery Hire	90m southeast
Startright Scaffold Hire Ltd	Unit 9, Lyon Road Industrial Estate, Bolton, BL4 8NB	Scaffolding service	70m northeast
AFI Uplift Ltd	Unit 25 Moss Road, Lyon's Industrial Estate, Kearsley, Bolton, BL4 8NB	Butchers	100m north
Nasip Meat	Unit 26/27/Lyon Road Industrial Estate, Moss Road, Kearsley, Bolton, BL4 8NB	Butchers	100m southeast
Keyframe (UK)	Unit 29-32, Lyon Industrial Estate, Moss Road, Kearsley, Bolton, BL4 8NB	Double glazing manufacture and supply	110m north
Frameproofings	Unit 1 & 2/Lyon Road, Kearsley, Bolton, BL4 8NB	Manufacturer	125m east
TRL Car Repairs	Unit 15 Lyon Rd, Kearsley, Bolton, BL4 8NB	Vehicle repair shop	140m southeast
Pfaudler	Unit 5 Lyon Road, Kearsley, Bolton, BL4 8TG	Process systems manufacturer and installer	155m east
JMA Transport	Unit 12a Lyon Road Industrial Estate, Kearsley, Bolton, BL4 8HS	Transportation service	235m southeast

2.3.2 Other sources of noise comprise birdsong and noise generated by other vehicle movements on Moss Road and other nearby road networks. The additional significant noise sources within the vicinity of the site include the M61 to the west and south and noise emitting operators within the industrial estate and beyond.

### **3 Site Operations**

#### **3.1 Waste deliveries**

3.1.1 Waste is delivered and removed from the site via the existing access to the east of the site. Upon arrival, an operative will direct the driver to the relevant area on site which is usually the weighbridge where the contents of the vehicle and waste transfer/consignment note are inspected.

3.1.2 Deliveries/removals from the site primarily consisting of Ltd.'s own vehicles/contracts but there will be third parties who send articulated vehicles for removal of waste vehicle parts and tankers for emptying interceptors. These vehicle types are shown below:

- HGV skip vehicles
- fixed body bulk loaders
- 8-wheeled tipper vehicles which can carry loads of up to 18-20 tonnes
- Articulated Lorries.

#### **3.2 Waste acceptance**

3.2.1 Strict waste acceptance procedures are in place at the site. The waste will be delivered to the site via the existing access to the east and upon arrival all waste will undergo a visual inspection prior to progressing through to the weighbridge. Once the vehicle has passed the initial inspection, the vehicle will be directed to the weighbridge where the waste consignment notes (including hazardous) and transfer documentation will be fully checked to ensure the waste matches the pre-acceptance information received.

3.2.2 Any wastes identified during the incoming waste inspections which do not conform to site acceptance criteria will not be accepted and/or removed and quarantined immediately to await safe removal from site and the EA will be contacted (where necessary) if the non-conforming waste discovered is likely to lead to a breach of permit conditions or a potential risk of combustion. The majority of all waste delivered

to the site will comprise Circle Recycling Limited's own vehicles with some occasional third-party deliveries.

### **3.3 Site infrastructure**

3.3.1 The site infrastructure proposed at the site is clearly detailed on Drawing No. LRIE/2948/03 which is shown in Appendix I of this NVMP. The drawing illustrates the location of plant, machinery and stored wastes across the site.

### **3.4 Waste deposit & handling**

3.4.1 Once a load has been accepted by the operator, the contents will be discharged into the appropriate reception, storage and treatments area as shown on Drawing No. LRIE/2948/03.

3.4.2 The majority of wastes will be accepted under EWC codes and tipped into the following areas on site:

- **AREAS 19 - 21 = 17 01 07** - mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 (**Inert waste tipping & inspection area**)
- **AREAS 19 - 21 = 17 05 04** - soil and stones other than those mentioned in 17 05 03 (**Inert waste tipping & inspection area**)
- **AREA 1 = 17 09 04** - mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 (**Mixed waste tipping & inspection area**)
- **AREA 1 = 19 12 12** -mechanically treated or residual waste (**Mixed waste tipping & inspection area**)
- **AREA 1 = 20 03 01** - mixed municipal waste (**Mixed waste tipping & inspection area**)

3.4.3 On average, the site will look to accept 10,000 tonnes of waste per month and 2,500 tonnes per week. The operator will accept approximately 80% of waste from builders on behalf of householders and 20% from third party sites. The operator informs the waste producer it is their responsibility to ensure anything which is disposed in the skip

or container is suitable and once the producer has possession of the waste, an agreement between them and the operator will take place ensuring the following:

- The operator has informed the customer of their duty to make sure all the waste received is non-hazardous
- Any skips hired out to builders to make sure no asbestos is disposed into the skip; usually a builder would inform you if there was asbestos present in the property/site
- The waste once collected by the driver is checked along with written/verbal confirmation the waste is non-hazardous from the producer
- Once the load has been tipped, it is checked by staff for any signs of contamination, if suitable sorted and deposited to the relevant recyclable pile on site.

### **3.5 Waste treatment procedure (HCI waste)**

3.5.1 Waste will be delivered in fixed body tippers, skip wagons or hook loaders and once a load has been accepted by the operator the contents of the delivery vehicles is discharged into the reception area (**AREA 1**) to await processing in accordance with the following procedures:

- a) All mixed loads are deposited in the mixed waste reception area (**AREA 1**) and crudely sorted by hand into recyclable materials such as paper/ cardboard, plastics, wood/timber, metals and green waste and transferred into the appropriate recycling skips or storage bays.
- b) The mixed waste is then loaded into a hopper using a loading shovel. The hopper then transports the material into a an enclosed trommel screen inside the building via a conveyor using or 360° grab for mechanical sorting.
- c) The trommel separates the fines material i.e. <40mm and discharges them in the below bay (**AREA 2**).
- d) Any waste >40mm will then pass through the screen onto a conveyor into a picking line with 4 chutes for removal of recyclable materials. Materials picked from the line are stored in the bays below (**AREAS 3 - 6**).

- e) The resultant material from the mechanical processing should be heavy bulky inert waste or scrap metal. The scrap metal is collected by overband magnet and deposited into a container below (**AREA 7**).
- f) The bulkier / inert material will fall into a pile at the end of the process run (**AREA 8**). Any waste which falls off the line and isn't bulky inert will be immediately transferred to **AREA 1** to undergo the same process.
- g) Waste for landfill which is not suitable for recycling is bulked up and stored in the waste for landfill bay inside the transfer building (**AREA 12**) to await removal off site for disposal at an appropriately permitted facility.
- h) Recyclables i.e. wood, plastic, soils, etc.. from the treatment line will be transferred to external bays (**AREAS 13 – 21**) to await onward distribution to an appropriate recycling/recovery facility.
- i) Certain recyclable fractions (i.e. plastics, paper and card) may undergo baling (**AREA 9**) to facilitate more efficient handling and onward transportation of these materials
- j) Loads which are delivered to the site and known to contain predominantly inert waste may be directed to **AREAS 19 – 21** for storage prior to processing or removal from the site.
- k) Bulky inert wastes will then be further processed to recover saleable aggregates (**AREA 21**)

### **3.6 Soils & aggregates recycling procedure**

- 3.6.1 On site processing using mobile plant is required to produce material to the desired specification for re-sale on the commercial market.
- 3.6.2 Below shows the procedure of the treatment operations carried out on site:

#### **SCREENER**

- a) Waste will be loaded into the feed hopper of the screening plant will be loaded using a 360° tracked excavator or a 4-wheel loading shovel equipped with a bucket. This process will then separate the soil from the stone/hardcore.

- b) The screening plant utilises a vibrating grid with evenly spaced vertical bars to separate out the different fractions within the material. Such screens have interchangeable mesh screens to permit the production of a wide range of product sizes (<3 mm to 20 mm).
- c) Soil will be discharged into two different stockpiles depending on its size via conveyors.
- d) The stone/hardcore material off the front conveyor of the screener should consist of stone/hardcore which will consist of a saleable aggregate. Larger items may then be transferred to the crusher.

### **CRUSHER**

- e) The bulky inert/stone waste will be loaded into the feed hopper of the crusher; this then passes into the crushing chamber which uses hydraulically operated jaws to reduce the size of the material.
- f) Small feed/fines pass through the grid bars/mesh at the base of the crushing chamber and out of the plant via a small side conveyor with a discharge height of approximately 1.5 - 3.0 metres. The larger crushed material falls onto the delivery conveyor which will discharge the material in one of two ways: either onto a conveyor feeding the grid of the mobile screen or onto the ground to form a stockpile.
- g) Before the crushed material exits the delivery conveyor (discharge height of up to 3.0 metres) any extraneous metal is extracted using a permanent overband magnet. If the material requires further grading after crushing the mobile screening plant used will have up to 3 discharge conveyors, forming 3 stockpiles of different product.
- h) Soil will be discharged into a stockpile where it will be bulked and removed off site.
- i) The stone/hardcore material off the screener will be loaded into the feed hopper of the crusher; this then passes into the crushing chamber which uses hydraulically operated jaws to reduce the size of the material.
- j) Small feed/fines pass through the grid bars/mesh at the base of the crushing chamber and out of the plant via a small side conveyor with a discharge height of approximately 1.5 - 3.0 metres. The larger crushed material falls onto the delivery

conveyor which will discharge the material in one of two ways: either onto a conveyor feeding the grid of the mobile screen or onto the ground to form a stockpile.

- k) Before the crushed material exits the delivery conveyor (discharge height of up to 4.0 metres) any extraneous metal is extracted using a permanent overband magnet. If the material requires further grading after crushing the mobile screening plant used will have up to 3 discharge conveyors, forming 3 stockpiles of different product.
- l) The stockpiled material which is discharged from the crushing plant will be transferred to the appropriate storage areas by loading shovel.

### **3.7 Mobile plant and equipment**

3.7.1 All mobile plant on site is subject to annual manufacturer maintenance to ensure proper working order in the form of service contracts.

3.7.2 Site management will undertake or delegate additional preventative maintenance checks on a more frequent basis i.e. daily, before, during and 1 hour at the end of each working day using a checklist similar to that in Appendix II to ensure the following:

- Mobile plant is mechanically sound for use and no presence of black fumes or trailing liquids visible prior to use or following shutoff of plant/equipment.
- Mobile plant is stored in the out-of-hours plant storage area as shown on Drawing Nos. LRIE/2948/03 following cessation of activities and external separation distances of 6m are observed between plant and any combustible or flammable material.
- In the building, all plant will be powered down and completely shut off prior to cessation of operations on any given day.
- Plant which is not in use for any extended period is stored at least 6 metres from combustible or flammable material.
- All mobile plant will contain firefighting equipment inside.



- Dust from processing/treatment operations on site can settle throughout the working day onto processing plant, plant exhausts and engine parts so a fire-watch will be implemented after cessation of works and equipment powered down for 1 hour each day to remove any dust/fluff using brushes, hoses etc... Any build of dust/fluff will be removed from the equipment and deposited into an adjacent refuse bin which will be emptied when full.

3.7.3 In addition to the above, fleet lorries are brake checked every 6 weeks along with routine servicing as per compliance with the Traffic Commissioner. The proposed variation also includes construction of a HGV servicing building which will reduce the number of vehicle movements associated with the site.

## **4 Noise Management and Controls**

### **4.1 Noise Sensitive Receptors**

4.1.1 The site lies within a mixture of a housing and industry agricultural setting with the nearest noise sensitive residential receptors located 180m and 325m north and east of the site. The layout of the site has been planned in order to contain all the required operations and activities within the site, thus limiting the impacts from noise on the above receptors.

4.1.2 In terms of potential noise impact, whilst the development proposed will be operated using the Best Practicable Means at all times, this site-specific NVMP has been prepared in order to ensure the noise levels at the site can be managed appropriately and reduce any impact on the surrounding receptors.

### **4.2 Noise Sources**

4.2.1 The main sources of noise which could arise from the site operations are as follows:

- a) Skip lorries/HGVs travelling to and from the site for delivery / collection of vehicle waste in loose and skip form
- b) Tipping and loading of waste into tipping areas, storage bays at the site including their loading and unloading
- c) Loading of waste into mechanical treatment plants i.e. trommel, screener, crusher and shredders
- d) Use of trommel, screener, crusher and shredders
- e) Loading of waste into containers for storage on site and into articulated vehicles for removal off site
- f) Manoeuvring of mobile plant around external areas of the site
- g) Small vehicles travelling to and from the site (e.g. staff and visitor's cars, courier van deliveries etc.)
- h) Repairs

### **4.3 Noise Management Table**

- 4.3.1 A site-specific NVMP table overleaf details the above noise sources and how the current and proposed infrastructure on site will reduce the impact of noise to surrounding properties.
- 4.3.2 In addition to the existing controls in this NVMP, the complaints procedure further discussed in section 5 will be used in the event that any noise complaints are received. If a noise complaint is received and the applicant has been made aware, immediate action will take place reviewing and identifying whether any changes to existing procedures are required or if new procedures need to be put in place. Any changes which may be required will be implemented immediately.

Source(s)	Receptor(s)	Consequence	Magnitude of noise source	Characteristic of noise source	Probability of noise disturbance	Remedial Action / Recommendations / Comments	Assessment Outcome following actions / recommendations
A =Skip lorries/HGVs travelling to and from the site for delivery / collection of vehicle waste in loose and skip form	See Section 2.2	Noise pollution	Medium	Continuous (Low Pitch)	Medium	<p>Engines will be switched off when the vehicles are not being used.</p> <p>Waste deliveries and collections will only be permitted during the hours of 06:00 – 20:00 Monday – Friday and 06:00 – 14:00 on Saturdays with no works on Sundays or Bank/Public Holidays. These hours are considered ‘normal’ working operational hours in an area dominated by industry which has adjacent uses operating business on a 24/7 basis.</p> <p>The existing access road to the operational area site will be maintained in good state of repair to prevent unnecessary noise being generated.</p> <p>All skip lorries operated by Circle Recycling Limited be fitted with chain socks in order to reduce the noise produced by the loose chains banging on the side of the skip.</p> <p>Implementation of a 5mph speed limit onsite.</p> <p>Drivers must lower the tipper body before driving away from the tipping area.</p> <p>All drivers are required to enter and exit the site with due consideration for neighbours.</p> <p>Drop heights will be a maximum 1m from the ground to allow for clearance of the relevant vehicle.</p> <p>Management will ensure that all vehicles involved in the tipping of waste operated by Circle Recycling Limited are functioning suitable i.e. vehicles must be well maintained and operated with silencers and moving parts to be regularly lubricated. The proposed use of the HGV servicing building will ensure this policy is followed strictly.</p> <p>All mobile plant and other vehicles used will benefit from white noise reverse alarms.</p> <p>A no idling policy will be in place and staff/third party drivers will be told not to rev engines.</p>	Low due to background noise levels being high
B = Tipping and loading of waste into tipping areas, storage bays at the site including their loading and unloading	See Section 2.2	Noise pollution	Medium	Continuous (Low Pitch)	High	<p>Refer to the above actions shown in A and additional actions/proposals are shown below.</p> <p>This activity will take place approximately 150m from the nearest residential receptors and will be done so inside a secure bay or inside the transfer building.</p>	Low

Source(s)	Receptor(s)	Consequence	Magnitude of noise source	Characteristic of noise source	Probability of noise disturbance	Remedial Action / Recommendations / Comments	Assessment Outcome following actions / recommendations
<p>C = Loading of waste into mechanical treatment plants i.e. trommel, screener, crusher and shredders</p> <p>D = Use of trommel, screener, crusher and shredders</p>	See Section 2.2	Noise pollution	Medium	Continuous (Low Pitch)	High	<p>Refer to the above actions shown in A and additional actions/proposals are shown below.</p> <p>The loading of waste into the treatment plants is done using a 360° grab/crane as opposed to a loading shovel meaning the material can be inserted into the plant with minimal drop height to prevent any crashing, banging or vibration.</p> <p>It is proposed to operate this machinery between the hours of 07:00 – 19:00 Monday – Friday and Saturday 08:00 – 13:00 only which are not considered unsociable hours.</p> <p>Management will ensure that all loading plant operated by Circle Recycling Limited is functioning suitably i.e. moving parts to be regularly lubricated.</p> <p>Operatives will be informed to turn off engines of the mobile plant when it is not in use and no revving of engines will be permitted at the site.</p> <p>Any malfunctions in plant i.e. missing screws/bolts which result in excessive noise will be de-commissioned until an alternative loading plant sourced.</p>	Low
E = Loading of waste into containers for storage on site and into articulated vehicles for removal off site	See Section 2.2	Noise pollution	Medium	Infrequent (High Pitch)	High	<p>Refer to the above actions shown in A and additional actions/proposals are shown below.</p> <p>The operator has recently altered the way the material is loaded into containers by ensuring plant grabs can go inside the containers and site management have instructed the grab operators to load the containers by placing the material in them rather than dropping it. Site management also closely monitoring the staff loading the material continuously (in addition to the daily monitoring) to make sure that the revised loading operations are carried out.</p> <p>Management will ensure that all loading plant operated by Circle Recycling Limited is functioning suitably i.e. moving parts to be regularly lubricated.</p> <p>Operatives will be informed to turn off engines when the plant is not in use and no revving of engines will be permitted at the site.</p> <p>Any malfunctions in loading plant i.e. missing screws/bolts which result in excessive noise will be de-commissioned until an alternative loading plant sourced.</p>	Low

Source(s)	Receptor(s)	Consequence	Magnitude of noise source	Characteristic of noise source	Probability of noise disturbance	Remedial Action / Recommendations / Comments	Assessment Outcome following actions / recommendations
F= Manoeuvring of mobile plant around external areas of the site	See Section 2.2	Noise pollution	Low	Intermittent (Low Pitch)	Med	<p>Refer to the above actions shown in A and additional actions/proposals are shown below.</p> <p>Management will ensure that all site vehicles operated by Circle Recycling Limited are functioning suitable i.e. vehicles must be well maintained and operated with silencers and moving parts to be regularly lubricated.</p> <p>All manoeuvring areas using mobile plant are surfaced with impermeable concrete which is generally flat and well maintained to prevent unnecessary banging of vehicles on uneven ground leading to excessive vibration.</p>	Low
G = Small vehicles travelling to and from the site (e.g. staff and visitor's cars, courier van deliveries etc.)	See Section 2.2	Noise pollution	Low – Very Low	Intermittent (Low Pitch)	Low	<p>All those working on and visiting the site to be made aware of need for considerate driving and keeping vehicles well maintained.</p> <p>Small vehicles are not considered to be an issue in relation to excessive noise which could cause a complaint.</p> <p>Implementation of a 5mph speed limit onsite.</p> <p>All drivers are required to enter and exit the site with due consideration for neighbours.</p>	Very Low / Negligible
H = Repairs	See Section 2.2	Noise pollution	Very Low	Occur at a specific time (Low Pitch)	Low	<p>If repairs to the site are required, the work is to be undertaken with due regard for the possible noise nuisance and during working day hours.</p> <p>In the event of major repair work being undertaken which is likely to cause significant noise and disruption, neighbouring residents and the Environment Agency will be notified in advance and would not commence without agreement unless in extenuating circumstances i.e. to minimise a fire occurring.</p>	Very Low / Negligible

#### **4.4 Monitoring**

4.4.1 It is proposed that any offsite monitoring would primarily comprise the subjective onsite observations by site management. Given that the noise assessment has determined that proposed noise levels associated with the proposed operations are unlikely to significantly exceed the background level it is difficult to justify the requirement to undertake routine pro-active offsite monitoring.

4.4.2 There is a property to the north of the site which carries out noisier activities but as the activities vary on a day-by-day basis, it would make it difficult to assess any measurements made at the nearest receptors during the site's operation i.e. what amount of the noise level may be apportioned to the site. To have any certainty in evaluating the true noise level as a result of the operations at the receptor measurements would have to be made during time of inactivity at neighbouring sites. This would introduce a great level of difficulty and eradicates the opportunity to arrange for a routine, weekly time for noise monitoring.

4.4.3 It would seem reasonable to propose that noise levels are subjectively monitored by site management. Site management will be able to monitor noise levels throughout the day whilst onsite and would notice a rise in noise levels because of plant failure, staff negligence, incompatible loads or other extenuating circumstances. If site management identify these issues, the operator they can then take steps to remedy the situation (i.e. cease the activity if needed). Should a noise a complaint be received, site management would review the nature of the complaint, and should it be deemed necessary (i.e. numerous complaints relating to a particular item of plant) then an investigation may be commenced and advice sought from a professional acoustician.

#### **4.5 Recording**

4.5.1 Site management will record complaints in the site diary or complaints report from in Appendix II and contract the EA within 24 hours if a complaint is received.

4.5.2 Site management will be required to make a note of any unavoidable events such as plant failure, in the site diary, rather than just actual complaints received and notify

the EA within 24 hours. This will ensure that if complaints are received retrospectively from either the EA or directly, any circumstances which led to that complaint as a result of elements outside of the operator's control would be able to be attributed (or, at least, in part) to the cause of the complaint. Where all appropriate measures fail to prevent an activity causing unacceptable levels of noise pollution, the activity will be stopped.

## **4.6 Emergencies**

- 4.6.1 In the event of any unforeseen circumstances i.e. faulty equipment, the site manager will make an assessment of whether to cease activities/all operations with the main emphasis on site will be to reduce any noise impacts.



## **5 Actions when complaints are received**

### **5.1 Complaints procedure**

- 5.1.1 If any noise complaints are received, site management will complete a 'complaints and events log' and detailed individually on the complaints form (in Appendix II), both of which will be kept for inspection on request by the LA, EA or third parties. Details of information to be completed are dates, nature of complaint, weather conditions at the time of the complaint, investigation details, action taken and a signature (as a minimum).
- 5.1.2 Noise complaints will be prioritised and investigated without delay or by end of working day only in extenuating circumstances. This will also apply to complaints received both directly and via other sources (e.g. EA or local authority). Where investigation substantiates the complaint, fully or partially, then remedial action will be taken immediately and if measures taken fail to stop the pollution then the activity must be stopped and not restarted unless and until additional measures have been implemented to prevent the emission causing pollution. The EA will be contacted in the event the complaint cannot be escalated. Following a complaint and if it is deemed correct following investigation, the appropriate action will be taken to prevent the issue from reoccurring i.e. evaluation of current abatement measures, site operations, additional abatement measures and re-training of staff via toolbox talks.
- 5.1.3 The operator will make a note of any unavoidable events plant/equipment malfunctions in the site diary, rather than just actual complaints received. This will ensure that if complaints are received retrospectively from either the Council/EA or third parties, any circumstances which led to that complaint as a result of elements outside of the operator's control would be able to be attributed to the cause of the complaint.
- 5.1.4 It must be noted that the site lies adjacent to a noisy property to the north, so in the event of a complaint, the operator will substantiate the complaint by carrying out noise monitoring to identify whether the complaint is valid. If the complaint is valid, the site

will implement the complaint procedures check and if required, amend site operations and provide additional attenuation around the site. This would involve using a level 2 sound meter and comparing this information from the background levels recorded from the recent Noise Impact Assessment.

5.1.5 If the source cannot be ascertained with 100% confidence, site management will either suspend or reduce the likely noise generating activities, i.e. mechanical treatment plant comprising shredder, screener, crusher etc.. .

5.1.6 If the source is within the site's control, site management will take appropriate action to ensure the issue has been rectified. This may take the form of the following:

- a) Investigating the source to prevent a re-occurrence.
- b) Suspending operations which are giving rise to excessive noise due to potential plant malfunction
- c) Investigate noise mitigation measures
- d) Logging findings of a – c in the site diary / complaints form and also in the reporting template within the EP.
- e) Report actions to the complainant and/or EA within 24 hours.
- f) If following the above complaints are still received, the site will cease operations until the issues have been rectified.

5.1.7 The EA will be notified by email of any third-party noise complaints received within 24 hours including the complainant and the outcome of the investigation. Where complaints are substantiated as causing or likely to cause significant noise pollution, then the EA will be notified.

## **5.2 Complaints recording**

5.2.1 Any complaints received in relation to noise and vibration will be recorded on the form shown in Appendix II. This form will normally be completed, signed and dated by site management, if they are not available, another suitably trained staff member.

5.2.2 The following details as a minimum will be completed on the form:

- a) The name, address and telephone number of the caller will be requested.
- b) Each complaint will be given a reference number.
- c) The caller will be asked to give details of:
  - the nature of the complaint;
  - the time;
  - how long it lasted;
  - how often it occurs;
  - is this the first time the problem has been noticed; and,
  - what prompted them to complain.
- d) The person completing the form will then, if possible, make a note of:
  - the weather conditions at the time of the problem (rain snow fog etc.)
  - strength and direction of the wind; and,
  - the activity on the installation at the time the noise, dust or odour was detected, particularly anything unusual.
- e) The reason for the complaint will be investigated and a note of the findings added to the report.
- f) The caller will then be contacted with an explanation of the source of the complaint if identified and the action taken to prevent a recurrence of the problem in future.
- g) If the caller is unhappy about the outcome or unwilling to identify themselves the caller will be referred to the appropriate department of the EA or Local Council.
- h) Following any complaint, the complaints procedure will be reviewed to see if any changes are required or if new procedures need to be put in place.

## **6 Training**

### **6.1 Training regime**

6.1.1 All employees and sub-contractors of Circle Recycling Limited involved with potentially noisy operations will receive training in noise and vibration monitoring and complaint reporting.

6.1.2 Training will be given to all relevant persons to make sure they are competent in completing noise and vibration survey forms, noise and vibration complaint report forms and the site diary to ensure sufficient monitoring of noise and vibration can be carried out and any problems addressed correctly.

6.1.3 When selecting new plant and equipment, consideration shall be given to the need to meet all legislation and statutory guidance on noise levels and to minimise levels of noise from selected equipment.

### **6.2 Vehicle / plant preventative maintenance training**

6.2.1 This training is provided specifically for the vehicle and plant operators in order to ensure that all plant and machinery is checked regularly to prevent any occurrences which may lead to any adverse impacts on the environment or human health.

6.2.2 Training will be based on the preventative maintenance schedule supplied by the plant/equipment manufacturer.

6.2.3 The same training will be provided to senior management enabling a dual-level maintenance programme.

### **6.3 Liaison with Neighbours**

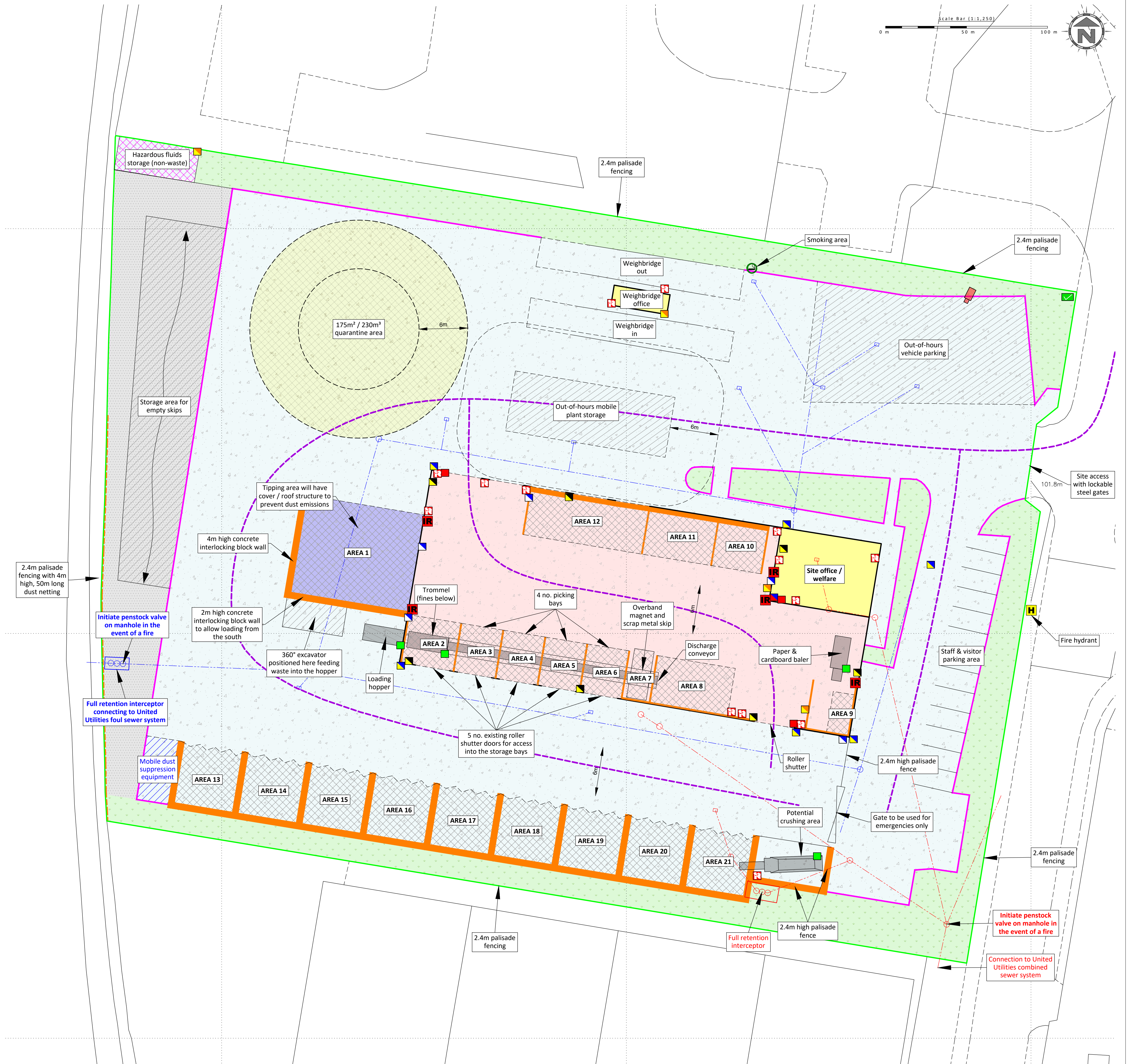
6.3.1 In the extreme event of a significant, but temporary, increase in noise and vibration from the site, neighbours will be contacted to advise them of the occurrence and action being taken to remediate the issue on site.

- 6.3.2 An open-door policy will be encouraged by the operator to enable any complaints from neighbouring premises (if received) to be dealt with immediately. The complainant will then be supplied with remedial actions taken and any procedures or measures put in place by the operator to reduce or ideally eradicate the likelihood of a subsequent complaint.

# Appendix I

## Drawings





**Storage Area Details**

Plan Ref	Description	Storage type	Containment / type	Height of firewall (m)	Max width of pile (m)	Max length of pile (m)	Max height of pile (m)	Approx. area (m <sup>2</sup> )	Conversion factor used	Approx. volume (m <sup>3</sup> )	Average storage time	Max storage time	Comments
AREA 1	Mixed waste reception area (HCI waste)	Unprocessed	Free standing pile / three-sided concrete interlocking block fire wall	4	15	12.5	3	187.5	0.75	422	<2 hours	<48 hours	48 hours is based on Sat - Mon; storage time likely to be less as the pile will continually move throughout the day
AREA 2	Trommel fines	Sorted by trommel screen	Free standing pile / two-sided concrete panel fire wall	3	6.5	6	2	39	0.75	59	<2 hours	<48 hours	As above
AREAS 3 - 6	Hand picked wastes from picking line comprising wood, residual, plastic, paper & cardboard	Processed (by hand)	As above	3	6.5	6	2	39	0.75	59	<2 hours	<48 hours	As above and volume is based on each storage bay. Once bays are full the waste will be transferred to the external overflow bays (AREAS 13 - 19)
AREA 7	Scrap metal	Processed (magnet)	40 cubic yard skip	3	2.5	6.1	2.62	15.25	1	40	<12 hours	1 week	Skip removed when full and replaced with empty skip; timescale dependent on metal content in waste
AREA 8	Hardcore / rubble	Sorted via treatment plant	Free standing pile / two-sided concrete panel fire wall	3	10	6	2	60	0.75	90	<2 hours	<48 hours	See AREA 1 comments
AREA 9	Baled paper & cardboard	Processed, sorted & baled	Bales within three-sided concrete panel fire wall	3	2.5	5	2	12.5	0.75	19	<2 hours	<48 hours	See AREA 3 - 6 comments
AREA 10	Miscellaneous bay i.e. non-conforming waste	Unprocessed (hand sorted)	Free standing pile / three-sided concrete panel & interlocking block fire wall	3	6	6	2	36	0.75	54	<48 hours	<48 hours	See AREA 1 comments
AREA 11	Plasterboard	Unprocessed (hand sorted)	As above	3	6	6	2	36	0.75	54	<2 hours	<48 hours	See AREA 1 comments
AREA 12	Residual waste	Processed, hand sorted by treatment plant	As above	N/A	15	6	2	90	1	180	<48 hours	<48 hours	Acting as overflow bay from AREAS 3 - 6; pile removed sooner if full
AREAS 13 - 18	Overflow storage bays from wastes recycled inside the building	Processed, hand sorted by treatment plant	Free standing pile / three-sided concrete interlocking block fire wall	4	8	8	3	64	0.75	144	<48 hours	<1 week	As above and pile size based on each bay
AREA 19	Soils & stone	As above	As above	4	8	8	3	64	0.75	144	<48 hours	<1 week	As above
AREAS 20 & 21	Hardcore & crushed stone	As above and crushed	As above	4	8	8	3	64	0.75	144	<48 hours	<1 week	As above

**CONVERSION FACTORS**  
 Conversion factors for waste piles are worked out using the following methods set out by The Environment Agency  
 The maximum length width pile is based on the largest dimension - the volume of the pile has been calculated using the area x height x relevant conversion factor  
 Conversion of 1 for materials stored within containers, area of storage in stackable containers and waste/bale stacks  
 Conversion of 0.75 for waste stored within a bay based on volume of pyramid x rectangle x height  
 Conversion of 0.333 for waste stored in a free-standing stockpile  
 For areas containing skips, conversion is calculated by volume of each skip x number of skips

**Oaktree Environmental Ltd**  
 Waste, Planning and Environmental Consultants

**DRAWING TITLE**  
SITE LAYOUT & FIRE PLAN

**CLIENT**  
Circle Recycling Ltd

**PROJECT/SITE**  
Lyon Road Industrial Estate, Kearsley, Bolton, Lancashire BL4 8NB

**SCALE @ A1**  
1:250

**CLIENT NO**  
2948

**JOB NO**  
001

**DRAWING NUMBER**  
LR/E/2498/03

**REV**  
C

**STATUS**  
Issued

**DRAWN BY**  
CP

**CHECKED**  
---

**DATE**  
18.04.23

**KEY:**

- Permit boundary
- Waste storage areas
- Non-waste hazardous fluid storage (i.e. diesel, AdBlue etc.)
- Waste recycling building (concrete floor with sealed drainage)
- Other buildings i.e. workshops/offices
- Impermeable concrete with sealed drainage
- 0.15m high concrete kerb
- 0.6m - 0.8m thick concrete interlocking block firewall
- 0.15m wide concrete panel firewall
- Surface water gully's & manholes
- Foul water gully's & manholes
- Underground surface water drainage
- Underground foul water drainage
- Quarantine area
- Fire water containment equipment
- Fire extinguisher locations
- Plant shut off points
- Fire alarms
- Spill kits
- Water points
- Access route for emergency services
- Surface water gully's
- Fire hydrant
- Fire assembly point
- Flame/heat detection cameras
- CCTV cameras (internal & external)
- Pan, tilt & zoom camera (50m coverage)

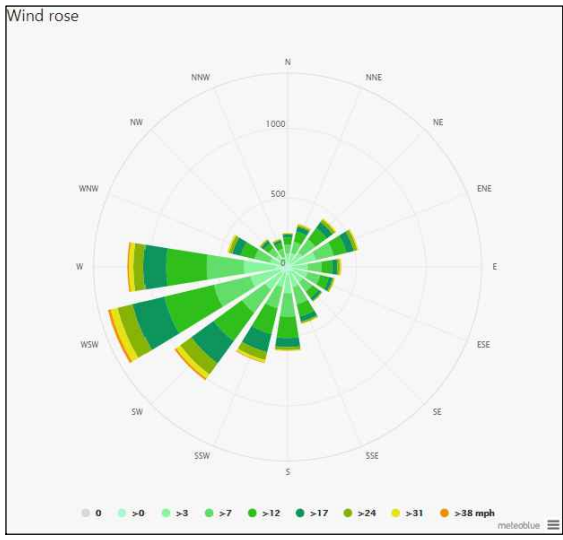
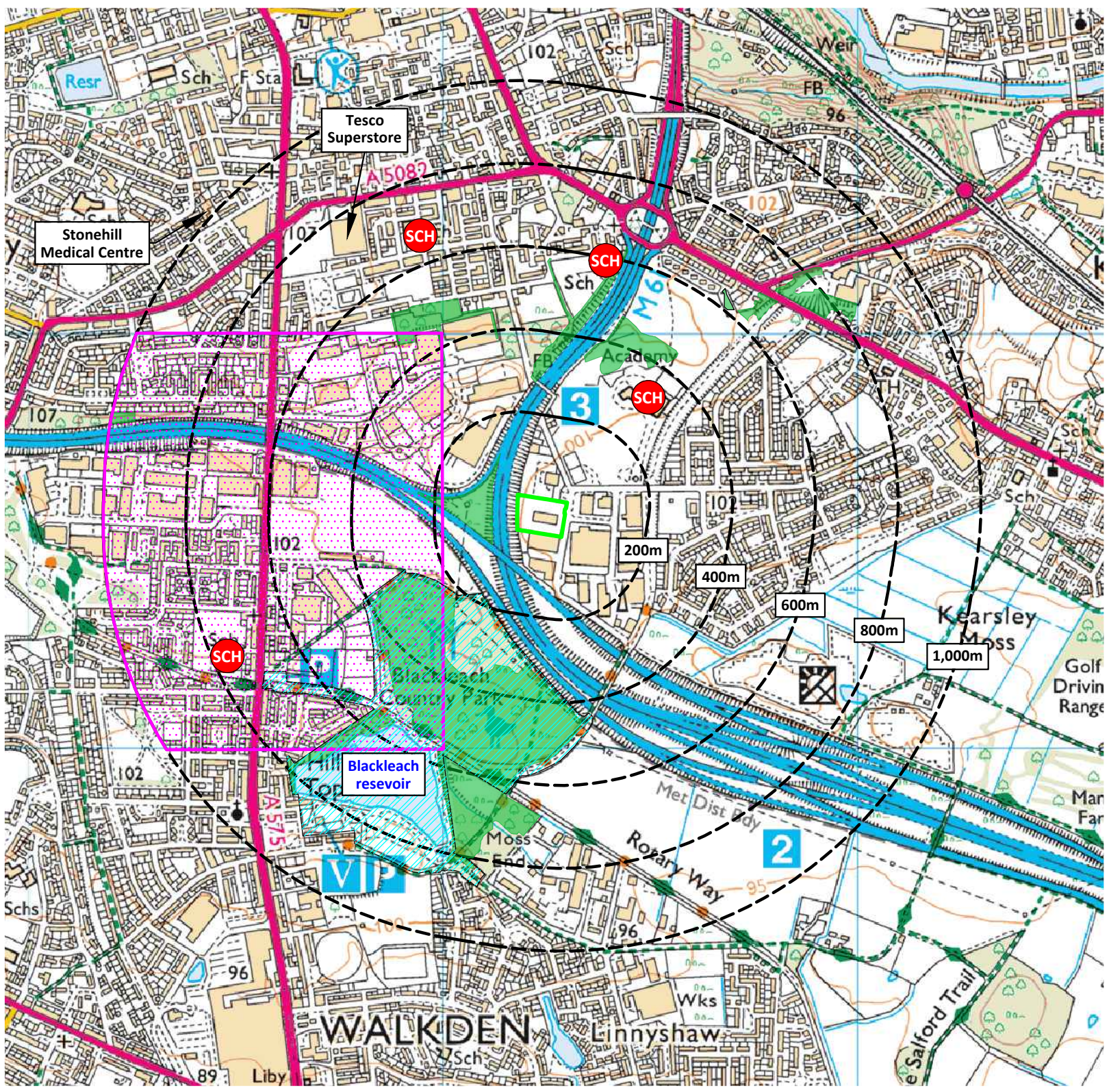
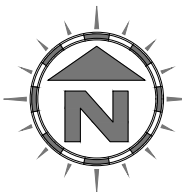
**NOTES**  
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**REVISION HISTORY**

Rev:	Date:	Init:	Description:
-	06.10.21	CP	Initial drawing
A	07.10.21	CP	Client comments
B	12.10.21	CP	Client comments
C	18.04.23	CP	Operator name change



-  Permit boundary
-  Surface water body ( pond / pool / lake)
-  Stream, river, beck
-  Buildings includes Agricultural, industry, commerce and retail - could also include small houses)
-  Residential blocks
-  Class A roads
-  Class B roads
-  Class C roads
-  Local nature reserve / local wildlife site
-  Protected species
-  Priority Habitat - Deciduous Woodland
-  Other woodland areas (non-habitat)
-  Schools including primary, high, colleges and Universities
-  Care homes
-  Places of worship
-  Fire hydrants (indicative)

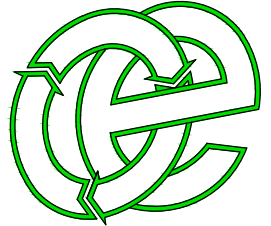


Compass Wind Rose for Bolton sourced on 21/09/2021  
- source: Meteoblue

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REVISION HISTORY			
Rev:	Date:	Init:	Description:
-	07.10.21	CP	Initial drawing
A	18.04.23	CP	Operator name change

**Oaktree Environmental Ltd**  
Waste, Planning and Environmental Consultants



**DRAWING TITLE**  
PERMIT BOUNDARY PLAN

**CLIENT**  
Circle Recycling Ltd

**PROJECT/SITE**  
Lyon Road Industrial Estate, Kearsley, Bolton, Lancashire BL4 8NB

<b>SCALE @ A3</b> 1:12,500	<b>CLIENT NO</b> 2948	<b>JOB NO</b> 001
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<b>DRAWING NUMBER</b> LRIE/2948/04	<b>REV</b> A	<b>STATUS</b> Issued
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<b>DRAWN BY</b> CP	<b>CHECKED</b> --	<b>DATE</b> 18.04.23
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**Lime House, Road Two, Winsford, Cheshire, CW7 3QZ**  
t: 01606 558833 | e: sales@oaktree-environmental.co.uk



# Appendix II

## Complaints Report Form

### **COMPLAINTS PROCEDURE**

- 1) Any complaints received in relation to noise and vibration will be recorded on the form below. This form will normally be completed, signed and dated by the site operator, if they are not available, the Office Manager will complete the form.
- 2) The name, address and telephone number of the caller will be requested.
- 3) Each complaint will be given a reference number.
- 4) The caller will be asked to give details of:
  - the nature of the complaint;
  - the time;
  - how long it lasted;
  - how often it occurs;
  - is this the first time the problem has been noticed; and,
  - what prompted them to complain.
- 5) The person completing the form will then, if possible, make a note of:
  - the weather conditions at the time of the problem (rain snow fog etc.)
  - strength and direction of the wind; and,
  - the activity on the site at the time the noise was detected, particularly anything unusual.
- 6) The reason for the complaint will be investigated and a note of the findings added to the report.
- 7) The caller will then be contacted with an explanation of the source of the complaint if identified and the action taken to prevent a recurrence of the problem in future.
- 8) If the caller is unhappy about the outcome or unwilling to identify themselves the caller will be referred to the EA.
- 9) Following any complaint the complaints procedure will be reviewed to see if any changes are required or if new procedures need to be put in place.

Complaints Report Form	
Date Recorded	Reference Number
Name and address of caller	
Telephone number of caller	
Time and Date of call	
Nature of complaint (noise, vibration) (date, time, duration)	
Weather at the time of complaint (rain, snow, fog, etc.)	
Wind (strength, direction)	
Any other complaints relating to this report	
Any other relevant information	
Potential reasons for complaint	
The operations being carried out on site at the time of the complaint	
Follow Up	
Actions taken	
Date of call back to complainant	
Summary of call back conversation	
Recommendations	
Change in procedures	
Changes to Noise & Vibration Management Plan	
Date changes implemented	
Form completed by	
Signed	
Date completed	