



APPLICATION FOR AN ENVIRONMENTAL PERMIT VARIATION UNDER THE ENVIRONMENTAL PERMITTING (ENGLAND AND WALES) REGULATIONS 2016 (AS AMENDED)

**ODOUR MANGEMENT PLAN** 

# Chorley

ACKHURST WASTE TRANSFER STATION, ACKHURST ROAD, CHORLEY, PRESTON, PR7 1NH

ECL Ref: CHBC.01.01/OMP

Version: Issue 1
January 2025





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## **ACRONYMS/TERMS USED IN THE TEXT**

BAT Best Available Techniques
CBC Chorley Borough Council
EA Environment Agency

ECL Environmental Compliance Limited
EMS Environmental Management System

EP Environmental Permit

NGR National Gid Reference

OMP Odour Management Plan

PPMR Planned Preventative Maintenance Regime

The Depot Operational Depot for Chorley Council Streetscene Services

The Facility Chorley Council Transfer Facility

The Site Ackhurst Business Park, Ackhurst Road, Chorley, Preston, PR7 1NY





#### 1. INTRODUCTION

#### 1.1. Overview

1.1.1. Environmental Compliance Limited ("ECL") have been commissioned by Chorley Borough Council ("CBC") to prepare an Odour Management Plan ("OMP") to form part of the Environmental Permit ("EP") application for their new waste transfer hereafter referred to as "the Facility", located at Ackhurst Business Park, Ackhurst Road, Chorley, Preston, PR7 1NY ("the Site"). It should be noted that the Facility is located within the operational depot for Chorley Council Streetscene Services, herein after referred to as "the Depot".

#### 1.2. Purpose

- 1.2.1. This OMP has been written to meet the Environment Agency's ("EA") general requirements for OMPs as described within their Horizontal Guidance Note H4 Odour Management How to comply with your environmental permit (March 2011), EA's specific guidance 'Odour Management Plans for Waste Handling Facilities' (November 2010). Version 2 of the EA's Odour Management Plan Template (May 2021) was also considered in the production of this OMP.
- 1.2.2. The OMP is a working document with the specific aim of ensuring that all appropriate measures are taken to prevent or, where that is not reasonably practicable, to reduce odorous emissions to air from the Facility that may be considered offensive at locations outside of the Facility boundary. These measures include to ensure that:
  - odour assessment is considered as part of routine inspections;
  - odour is primarily controlled by:
    - enclosing waste storage areas and siting these away from any nearby receptors;
    - compliance with maximum storage periods of waste;
    - good operational/ housekeeping practices;
    - correct use and maintenance of the equipment; and
    - staff training.

#### 1.3. Roles and Responsibilities

- 1.3.1. The Head of Streetsceene and Waste is responsible for ensuring that the OMP is followed and that nuisances and hazards arising from the Facility, when encountered, are minimised and that odour complaints are investigated, and records are kept.
- 1.3.2. The Head of Streetsceene and Waste is also responsible for ensuring that in the event of a formal odour complaint, the investigation and findings are recorded in accordance with this plan. Regular meetings shall be held for site management to discuss current and planned operations with respect to their potential for generating odorous site emissions.





#### 1.4. Training

1.4.1. All site personnel receive information and instruction on a range of activities. This information and instruction will start at the staff induction stage and will include their responsibility to be aware of the OMP including the need to keep odour to a minimum, and to report any potential issues or areas of improvement to their line manager.

#### 1.5. Records and Framework

- 1.5.1. This OMP provides information on the potential odour impacts from the Facility and the mitigation measures to be implemented. These measures are linked to the Facility's Environmental Management System ("EMS") and will include operational and control measures for normal, as well as abnormal conditions.
- 1.5.2. This OMP also provides a management framework comprising of proactive and reactive measures to manage and control potentially odorous releases from the Facility. This proactive approach will facilitate the ongoing development of operational procedures and controls as part of an on-going commitment to improving environmental performance. Reactive procedures will also be established within the OMP for the logging, evaluation and implementation of corrective actions in the unlikely event of any odour related complaints being received.





#### 2. DESCRIPTION OF THE SITE AND POTENTIAL RECPTORS

#### 2.1. Site Location and Setting

- 2.1.1. The Facility is located on Ackhurst Road, Chorley, Preston, PR7 1NH. The Facility covers an area of approximately 0.88 hectares.
- 2.1.2. The Site Location Plan (CHBC.01.01-01) and Site Layout Plan (CHBC.01.01-02) detail the EP Boundary (outlined in green) are contained in the Drawings provided in Appendix I.
- 2.1.3. Figure 1 provides the indicative location of the Facility (red outline) within the context of the surrounding environment.



- 2.1.4. The Facility is located within Common Bank Industrial Estate which consists of numerous industrial/commercial units, a sewerage works, quarrying activities and a solar farm.
- 2.1.5. The River Yarrow is located approximately 40 metres south of the Facility boundary.
- 2.1.6. Residential housing is located to the east, southeast and north of the Facility, the nearest property being approximately 0.37km east.
- 2.1.7. Open green space and farmland is located to the west and south of the Facility.





#### 2.2. Potentially Sensitive Receptors

2.2.1. Potential sensitive human receptors within 1km of the boundary have been identified and are displayed in Figure 2 with nearest distances to the Facility boundary and direction given in Table 1.

H8 H2 H10 H4

Figure 2: Potentially Sensitive Human Receptors within 1km of the Facility Boundary

Table 1: Potentially Sensitive Human Receptors within 1km of the Facility Boundary

	•	•		•	•
Ref	Name	Easting (X)	Northing (Y)	Distance* (m)	Heading (°)
H1	Commercial activities (1)	356661	417297	71	93
H2	Commercial activities (2)	356625	417363	71	29
Н3	Residential properties off Common Bank Lane	356736	417629	359	24
H4	Residential properties off Woodford Copse	356986	417153	423	110
H5	Yarrow Farm	356356	416886	476	209
Н6	Residential properties off Parkers Close	356985	416981	508	129
H7	Residential properties off Hornchurch Drive	357046	417543	516	62
Н8	Residential property east of German Lane	356073	417403	527	281
Н9	Residential properties off Little Wood Close	356904	416870	533	144
H10	St Mary's Catholic Primary School	357202	417394	619	81

<sup>\*</sup> Distances are calculated as the crow flies from the specified receptor coordinates to on-site NGR: SD 56590 17301.

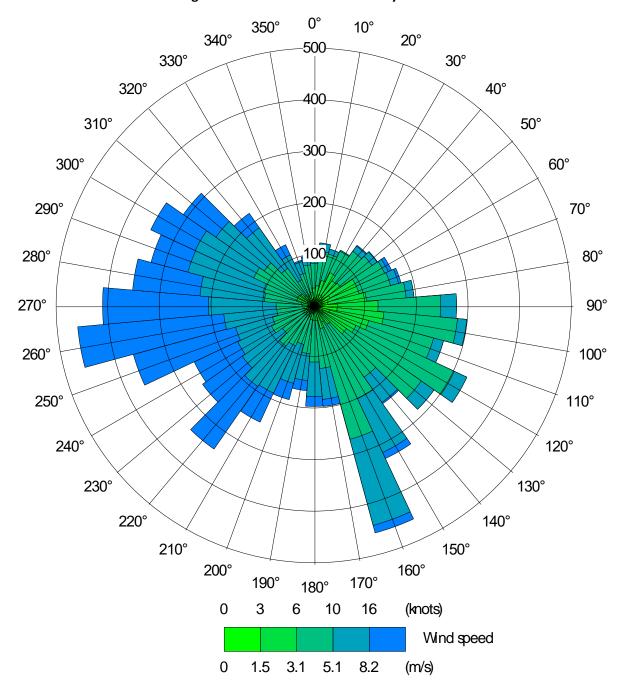
#### 2.3. Windrose

2.3.1. Odour can also be influenced by the meteorological conditions at the site and surrounding area. The closest Met Office meteorological station to the Facility, that can provide wind data, is Crosby. Crosby weather station is located approximately 31km to the southwest of the Site. The wind rose for 2023, which is provided in Figure 3, shows that the wind directions are predominately westerly and south-easterly.





Figure 3: Annual Wind Rose: Crosby - 2023







#### 3. Site Activities and Potential Sources of Odour

#### 3.1. Activities

3.1.1. The activities proposed are detailed in Table 2.

**Table 2: Permitted Activities** 

<b>Description of Activities</b>	Limits of Activities
<b>D15</b> : Storage pending any of the	The maximum quantity of waste stored at
operations numbered D1 to D14	the site shall not exceed 60 tonnes of non-
(excluding temporary storage, pending	hazardous waste or 10 tonnes of hazardous
collection, on the site where it is	waste.
produced)	
	No waste shall be stored on site for longer
R13: Storage of wastes pending any of	that 6 months.
the operations numbered R1 to R12	
(excluding temporary storage, pending	There shall be no treatment of any waste.
collection, on the site where it is	
produced	

3.1.2. The total quantity of waste accepted at the Facility will be up to 4,000 tonnes per annum. This is estimated to comprise 3,940 tonnes of non-hazardous waste and 60 tonnes of hazardous waste.

#### 3.2. Permitted Operating Hours

3.2.1. The site will be operational from 07:30 to 18:00 Monday to Saturday.

#### 3.3. Drainage Arrangements

3.3.1. No point source emissions to sewer or surface water are proposed as part of the Permit application. The Drainage Arrangements Plan (drawing reference CHBC.01.01-05) is contained in the Drawings provided in Appendix I.

#### 3.4. Levels of Odour

- 3.4.1. Individuals may have different responses to the same odorous compounds (i.e., if they find it acceptable or objectionable and offensive). Perception of odour is also influenced by other senses such as sight and taste.
- 3.4.2. For the purposes of this OMP, the three levels of odour as described by the EA's Horizontal Guidance Note H4 (April 2011), will be used in the assessment. The description of each level, together with the action required in each case is provided in Table 3 below.





#### **Table 3: Three Levels of Odour**

Level of Odour	Action Required
Unreasonable odour amounting to serious pollution being or is likely to be caused (regardless of whether appropriate mitigation measures are being used).	Further action must be taken
Odour pollution is or is likely to be caused	Implement appropriate measures to minimise
beyond the site boundary.	the odour.
No odour arises beyond the site boundary, or is likely to arise	No further action required.

#### 3.5. Odour Sources

- 3.5.1. It is anticipated that all potential on-site odour would be diffuse sources associated with the stored waste. Should any odour arise at levels deemed to be offensive in nature, these are likely to be attributable to certain waste classifications in particular (general / domestic waste and street cleaning residue, for example).
- 3.5.2. All waste streams are inspected prior to being accepted on-site, stored within covered storage areas or skips and collected at regular frequencies. This should all help to ensure any potential odours are not allowed to build up.





#### 4. OPERATIONAL PROCESS CONTROLS

#### 4.1. Odour Management Strategy

4.1.1. CBC's OMP strategy is to minimise any releases through good working practices and the use of suitable process control measures, which represent Best Available Techniques ("BAT"). A strategy based on the hierarchical structure shown in Figure 4 will be used at the Facility.

Prevent

Contain

Minimise

4.2. General Odour Control Measures

- 4.2.1. The techniques for odour control have taken into consideration the relevant indicative BAT requirements and Horizontal Guidance Note H4 Odour Management How to comply with your environmental permit (April 2011).
- 4.2.2. The following general management techniques are employed at the Facility:
  - the Facility is managed in accordance with an EMS, which is reviewed regularly to ensure it remains appropriate and up to date
  - staff are suitably trained in the conditions of the EP and EMS;
  - good housekeeping regimes are implemented throughout the site building, storage areas and yard;
  - regular cleaning and inspection to prevent the buildup of odorous residues;
  - equipment is subject to regular maintenance and servicing as per the planned preventative maintenance programme ("PPMR");
  - daily odour monitoring via sniff testing by the Responsible Officer;
  - relevant personnel trained in odour management procedures and all personnel will be trained in the prompt reporting of any abnormal odour so it may be rectified; and
  - waste is suitably contained and is removed off-site 3 times per week on average (certain waste streams are removed more or less frequently depending on their nature and the typical volumes received).





#### 5. RISK ASSESSMENT

#### 5.1. Methodology

- 5.1.1. A risk assessment has been undertaken using the following approach for odour:
  - identification of hazards associated with the risk that have the potential to cause harm;
  - identification of potential receptors i.e. what is the risk (for the purposes of this assessment, typical potential receptors have been identified)?
  - pathway, i.e. how can the hazard get to the receptor?
  - risk management measures employed to reduce the risk to an acceptable level;
  - probability of exposure i.e. how likely is this contact?
  - consequence i.e. what is the harm that can be caused? and
  - assessment of overall risk.
- 5.1.2. The results of the assessment are provided in Table 4.





#### **Table 4: Odour Risk Assessment**

Hazard	Receptors	Pathway	Risk Management	Probability of Exposure	Consequence	Overall Risk
Emissions to Air						
Fugitive Emissions to Air	r					
Odour emissions from site operations	Human population in the surrounding area	Release to Air.  Facility is close enough for potential odour emissions to reach potentially sensitive receptors.	<ul> <li>General odour management measures include:         <ul> <li>regular cleaning and inspection to prevent the buildup of odorous residues;</li> <li>equipment subject to regular maintenance and servicing as per the planned preventative maintenance programme ("PPMR");</li> <li>daily odour monitoring via sniff testing by the Responsible Officer;</li> <li>relevant personnel trained in odour management procedures and all personnel will be trained in the prompt reporting of any abnormal odour so it may be rectified.</li> </ul> </li> </ul>	Risk management measures should prevent unauthorised releases from reaching the identified receptors	Possible odour nuisance	Not significant if risk management measures are strictly adhered to





#### 6. ODOUR MONITORING

#### 6.1. Management Controls

- 6.1.1. The Senior management team will have overall responsibility for ensuring that odour is minimised or prevented from the Facility.
- 6.1.2. On a day-to-day basis the site personnel will carry out routine checks of odour and report as necessary. This is undertaken as described below.

#### 6.2. Odour Methodology

- 6.2.1. To carry out the assessment, the trained designated person / personnel will use their own sense of smell to detect odours, which may arise from within the Facility boundary. The wind roses show that the prevailing winds are predominantly westerly and south-easterly. Consequently, odour observations will initially be undertaken at the locations numbered 1-4 on the Assessment Locations Map contained within the Odour Assessment Form in Appendix II.
- 6.2.2. If odour is detected, the designated person (personnel) will walk the perimeter of the Facility's EP boundary to detect if odour can be detected at the Facility's boundary. The frequency of assessment be no less than once a day on operational days and in response to complaints.
- 6.2.3. If an odour assessment indicates that an odour is being detected at the EP boundary, the site will be investigated for the source. If the source / waste stream is detected or can be attributed to a process, action to eliminate that odour will be undertaken.
- 6.2.4. Further assessments will then be undertaken at any of the potentially sensitive receptors that are located down wind of the boundary on which the odour is detected.
- 6.2.5. All odour assessments will be recorded on the Facility's Odour Assessment Form (see Appendix II) or in the site diary and these will be stored on site or electronically.

#### 6.3. Routine Odour Assessment

- 6.3.1. There are two guidelines to be followed by designated personnel for the scheduling of odour assessments, and these are:
  - to vary the odour assessment times to cover all the differing activities that take place on site; and/or
  - if the time is close to a coffee or lunch break, schedule it to be undertaken before rather than after.





- 6.3.2. The assessment will involve the designated person to walk around the site's EP boundary to determine if any odours can be detected. All observations will be recorded on the Odour Assessment Form (Appendix II).
- 6.3.3. Should any odours be observed, the designated person will make an assessment of the sensitivity of the area, and the nature and severity of the odour.
- 6.3.4. Whilst undertaking the assessment the designated person will observe the locality for indications of other activities that may be causing sources of other odour.
- 6.3.5. Having completed the odour assessment, should odour be detected, the designated person will complete the Odour Assessment Form and report the conclusions immediately to the management for them to decide on necessary action should it be required to be taken.
- 6.3.6. Each odour assessment will have a conclusion detailing action that will be taken as a result of the assessment, even if this is no action required.
- 6.3.7. Completed Odour Assessment Forms will be stored on site for a minimum of two years. The forms will be available for inspection to all relevant persons (i.e. regulatory authority) during opening hours.

#### 6.4. Training

- 6.4.1. All designated personnel responsible for assessing odour will be trained in the use of this procedure by persons appointed by CBC.
- 6.4.2. Training will require the trainee to fully understand this assessment method, responsibilities and to carry out a supervised odour assessment to the satisfaction of the trainer.
- 6.4.3. A record of the training will be made in the training record sheets kept and available for inspection on site.

#### 6.5. Responsibilities of the Designated Person

- 6.5.1. The designated person carrying out an odour assessment will have the responsibility to ensure that the precautions listed below are followed to their best ability. These include:
  - not to smoke or consume strongly flavoured food or drink, including coffee, for at least half an hour before the assessment is carried out;
  - not to consume confectionery or soft drinks immediately before and during the assessment;
  - not to apply scented toiletries, such as perfume/aftershave immediately before or during the assessment; and
  - ensure the assessment is carried out by another designated person if there is any reason the ability to detect odour is impaired e.g. cold, sore throat, sinus trouble etc.





#### 7. Complaints

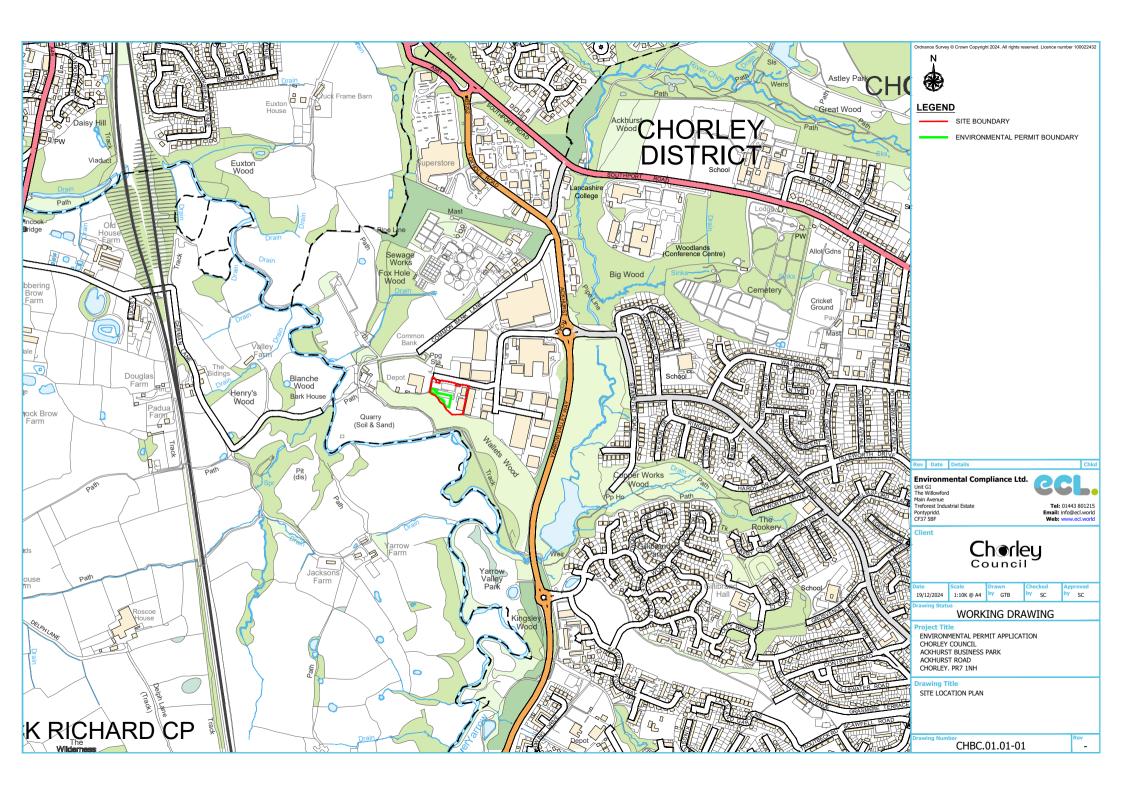
#### 7.1. Response to Complaints

- 7.1.1. Any complaints will be recorded on the Odour Complaint Form (see Appendix III).
- 7.1.2. Information regarding the nature of the complaint will be used to assess the offensiveness of the odour. Subsequent investigation of the complaints will either confirm, fail to confirm, or further characterise the odour incident.
- 7.1.3. In the event of any elevated levels of odour identified by the monitoring programme, or on receipt of substantiated complaint(s), the following mitigation measures will be implemented:
  - the Responsible Officer will notify the EA Site Inspector;
  - the Site management team / Supervisor take immediate action to investigate and take appropriate remedial action; and
  - the Site Manager team will inform the complainant(s) of the steps which will be undertaken to mitigate the odour.
- 7.1.4. Once the odour source has been identified and corrective and preventative measures have been implemented, the Responsible Officer will undertake a further odour assessment to ensure that the improvements have addressed the source of the elevated levels.





# APPENDIX I DRAWINGS

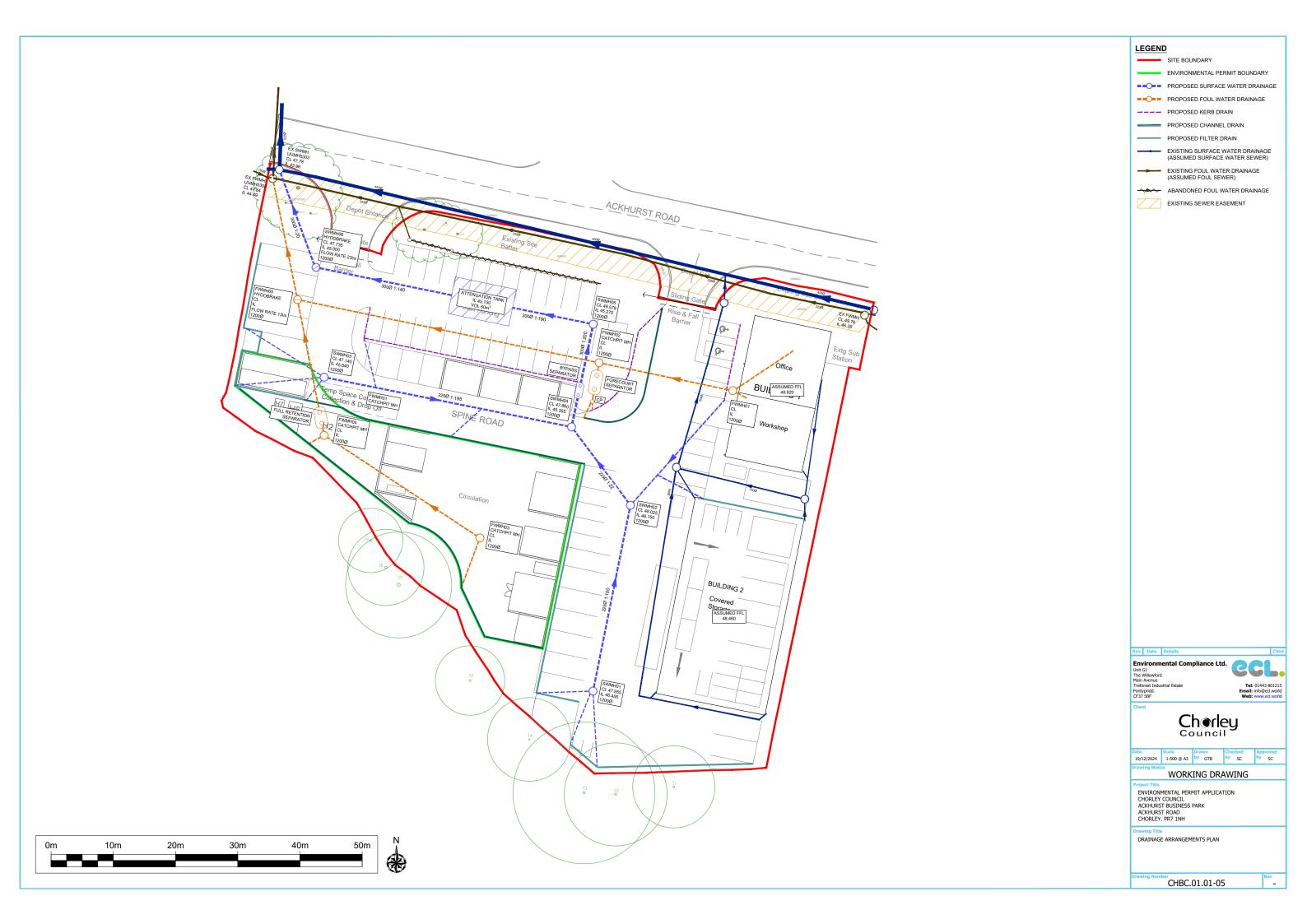




LEGEND

SITE BOUNDARY

**BAYS** 







# APPENDIX II Odour Assessment Form





# **Site Conditions**

Date:	Time:	
Weather (including temperature, precipitation, cloud cover):	Wind Speed & Direction:	
Time:	Assessed By:	

# **Assessment Locations Map**



#### **Odour Assessment**

Location	Odour Intensity (1)	On/Off Site Source?	Odour Description	Comments/Action		
1						
2						
3						
4						

Note to Table

(1) Levels of Odour Intensity: 0 = No odour; 1 = Faint; 2 = Moderate; 3 = Strong; and 4 = Very Strong.





# APPENDIX III Odour Complaint Form





# **Odour Complaint Form**

Date:		
Time:		
Contact Details of		
Complainant		
Date of Odour:		
Time of Odour:		
Location of Odour:		
Location of Odour:		
Weather at time of		
Incident (windspeed, and		
direction, temp,		
precipitation, cloud cover etc)		
Description of the Odour:		
Process Conditions at		
Time of Odour		
Complaint:		
Action To Be Taken:		
Follow up Odour		
<b>Assessment Conclusions:</b>		
Complaint Closed Out:	Date:	
Complaint Closed Cat.	Date.	
	Name:	
	Signature:	
	Position:	