



DUNMOW SKIPS LTD

MATERIAL RECOVERY FACILITY

Essex Regiment Way, Chelmsford

Noise Management Plan

Permit no: EPR/KB3036RR

Document Ref: 203382/NMP

July 2026

Table of Revisions

Issue	Description of status

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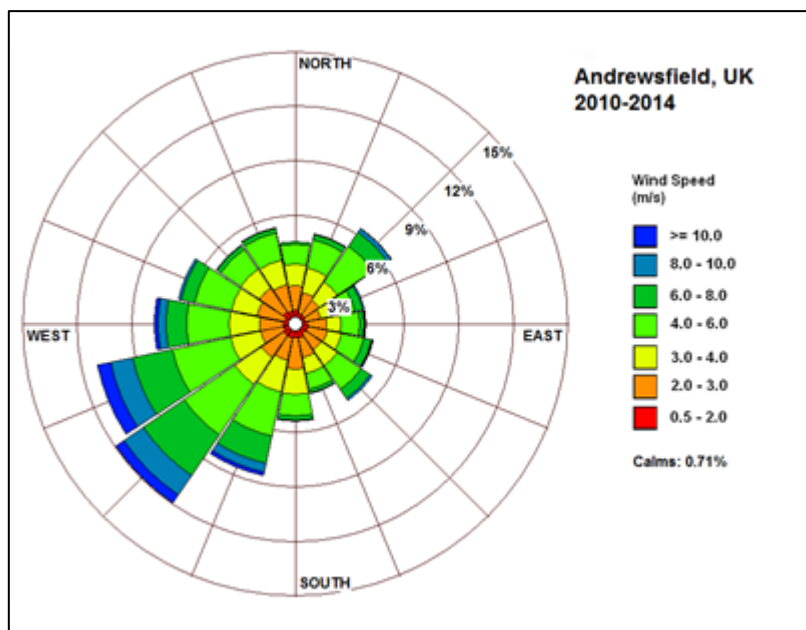
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1.0 INTRODUCTION

- 1.1 This Noise Management Plan (NMP) has been produced for Dunmow Skips Ltd to accompany their Environmental Management Systems (EMS) for the material recovery facility at Essex Regiment Way, Chelmsford. The site location is shown in drawing 203382/D/001. The Site Manager is responsible for the implementation of this management plan.
- 1.2 The operations relate to the waste recovery and transfer of the following waste streams:
 - municipal, commercial, industrial unsorted wastes with low recyclable content;
 - municipal, commercial and industrial wastes with recyclable content;
 - inert, and non-hazardous soil and made ground and construction/demolition wastes; and
 - asbestos and other small scale hazardous waste.
- 1.3 The noise impact of site activities, including external and internal activities, have been assessed in BS4142 assessment 'Noise Impact Assessment by RMP (reference 9078E-DJC5-RGM) which supported amendments to operational hours. The report is attached in Appendix A and is an approved document under planning permission ESS/02/24/CHL. Conditions 13 details the permitted the Noise Level Rating and states the noise levels (LA90) are not to be exceeded.
- 1.4 This NMP relates to all waste operations. The site layout for the operations is presented in drawing 203382/D/003A.
- 1.5 Management and control measures will be in accordance with the EA's online guidance '*Noise and vibration management: environmental permits*' (January 2022).
- 1.6 This report establishes the sensitive receptors surrounding the site, identifies any potential risks associated with the proposed activities and outlines required controls.

2.0 SENSITIVE RECEPTORS

- 2.1 The site and surrounding receptors are shown on drawing 203382/T/D/003. The majority of the surrounding receptors comprise of commercial and industrial uses. The site is likely afforded a relatively high baseline setting.
- 2.2 The frequency and likelihood of noise exposure of sensitive receptors is determined by the magnitude of noise, proximity of receptors and prevailing meteorological conditions. Figure 2.1 shows the 2010-2014 wind rose data for Andrewsfield, approximately 14 miles north of site, and presents the meteorological data used in this assessment. The figure shows that the prevailing wind direction is from the southwest.



- 2.3 Table 2.1 sets out the potential sensitive receptors, by either land use or proximity to the operation.

Table 2.1. Sensitive Location Plan			
Receptor ID	Description	Sensitivity	Distance from operational site
Residential			
1	a) Dwellings next to Essex Regiment Way	High	75 m northwest
	b) Dwellings off Lakeview Crescent		480 m south
	c) Dwellings off Fairway Drive / Brassie Wood		From 570 m south
	d) Dwellings off Lower Wimbush Road / Channels Drive		From 310 m southeast
	e) Housing development next to Channels Lake		From 270 m east
	f) Dwellings off Channels Drive		470 m east
	g) Dwellings off Domsey Lane		800 m northeast
	h) Dwellings off Mill Lane		615 m south
	i) Dwelling near the River Chelmer		690 m northwest
Industrial / Commercial			
2	a) Express Asphalt Chelmsford Essex	Low	65 m south
	b) Marlborough Highways		60 m south
	c) Sunshine Skips		65 m south
	d) The Grab Hire Company		25 m south
Commercial			
3	a) McDonalds	Medium	110 m south
	b) Shell Petrol Station	Low	170 m south
	c) Costa Coffee	Medium	240 m south
	d) The Channels Lodge / Bar & Brasserie		570 m east
	e) The Bistro at Little Channels		600 m north
	f) Chelmer Valley Park & Ride	Low	465 m north
	g) 4D Fit		100 m south
	h) Morrisons		140 m south
	i) Essex Scaffolding Supplies		640 m northwest

Table 2.1. Sensitive Location Plan			
Receptor ID	Description	Sensitivity	Distance from operational site
	j) Croxtons Mill		645 m northwest
Agricultural			
4	Agricultural Land	Low	330 m west and 750 m east
Ecological			
5	a) Newlands Grove Nature Reserve	Low	75 m west
	b) Regiment Way Nature		555 m south
	c) Deciduous Woodland		710 m northeast
Recreational			
6	a) Channels Play Park / Skate Park	Medium	405 m southeast
	b) Boueux Lake		340 m south
	c) Condor Lake		240 m southeast
	d) Channels Lake		165 m east
	e) Swallow Lake		150 m east
	f) Cordelia Park		810 m southeast
	g) Channels Village Green		500 m east
	h) Falcons Bowling Club		495 m south
	i) Little Channels Golf Centre		665 m north
Schools			
7	The Belsteads School	High	530 m northwest
Water Bodies			
8	River Chelmer	Low	255 m west
Public Roads			
9	a) Essex Regiment Way	Low	30 m west
	b) Channels Drive		320 m south
	c) Pratts Farm Lane		300 m north
	d) Back Lane		390 m north
Notes:			
1. Sensitive receptors conservatively derived following a desktop review using Google maps, anecdotal information and a surrounding site walkover.			

- 2.4 Other noise sources include the commercial facilities set out in section 2, notably Express Asphalt and Marlborough Highways. Background noise levels for key receptors are presented in the Noise Impact Assessment attached in Appendix A. The assessment is for information only.

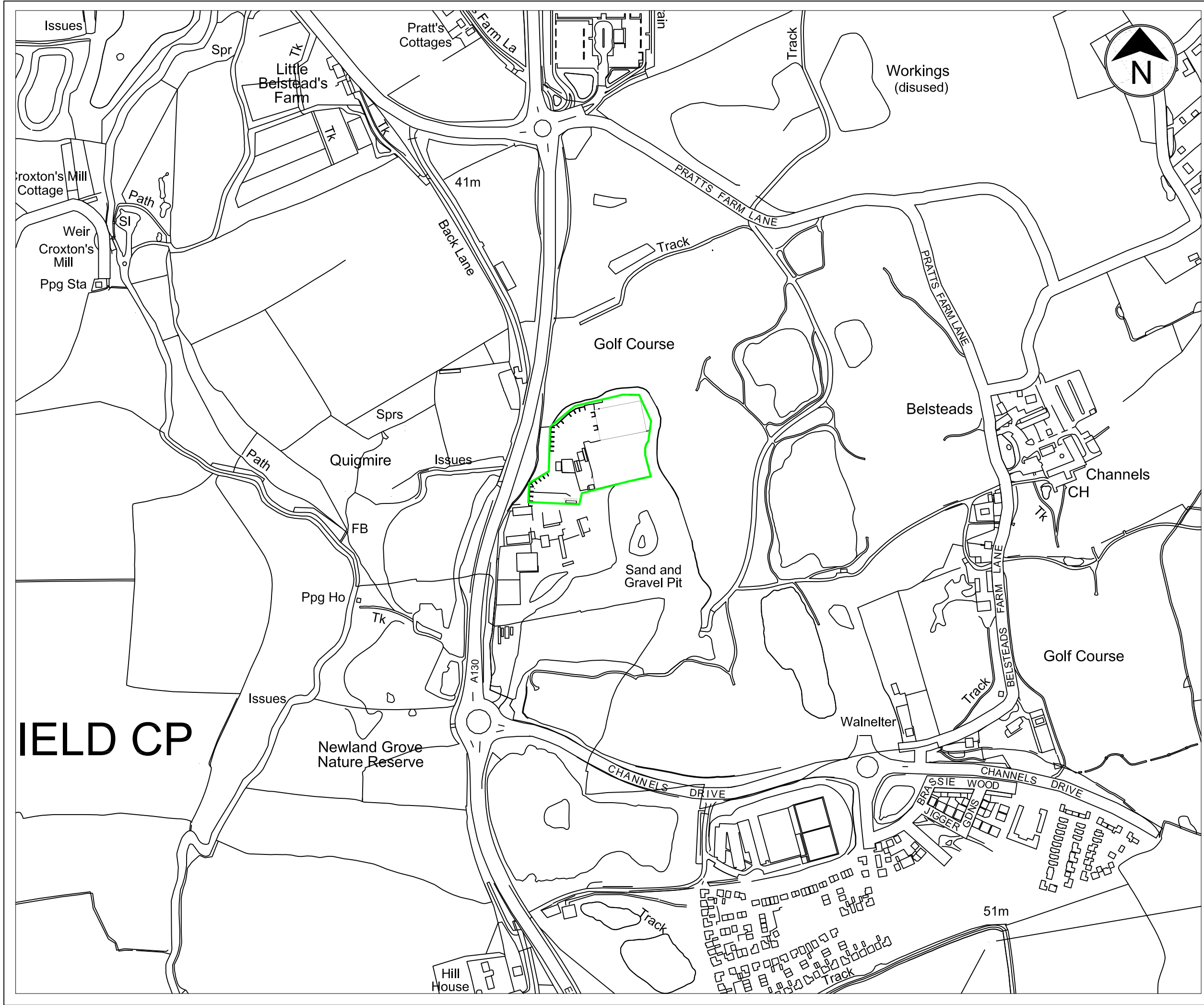
3.0 MANAGEMENT AND MITIGATION

- 3.1 The noise levels generated by the site operations are assessed to have low impact to nearby sensitive receptors when considered with context. The site is situated within a wider industrial/commercial area and there are no changes to operational during working hours. All other operations are in line with the Planning permission. Operational noise levels are likely to be comparable to existing ambient daytime noise levels based on the surrounding industrial/ commercial land uses.
- 3.2 The operations involve the treatment of mixed wastes by segregation, including manual removal by type and size, mechanical sizing via a trommel and density.
- 3.3 The site is accessed from the south of the site off Eagle Way. The site layout and access is shown in drawing 203382/D/003A. Working hours will adhere to the Planning Permission.
- 3.4 Site design and management controls include:
- External plant located against southern façade of the building providing a screen to the north of the site;
 - 3 to 5 m high legio blocks on the bays to the south and west to minimise ground level noise dispersion. In addition, there is a 2 to 3 m high earth bund to the east.;
 - The site will adhere to the working hours set out in the Planning Permission;
 - Only plant conforming with relevant national or international standards, directives or recommendations on noise emissions will be used. This will be subject to inspection by the site management team;
 - Equipment will be fitted with effective silencers in accordance with manufacturers' recommendations and maintained in accordance with the manufacturers' specifications and will be electrically powered as far as possible. Plant will be inspected daily and maintained in line with manufacturers guidance;
 - The grab, front loader and excavator operators will minimise drop heights to waste storage area and/or working plant and lorries;
 - All machines in intermittent use shall be shut down in the intervening period between work and throttled down to a minimum;
 - Implementation of an anti-idling policy on the HGV's;
 - all vehicles will obey the internal speed limit of 5 mph; and
 - An induction will be provided to all employees before works progress to ensure these controls are implemented and also on the need to keep noise to a minimum and the health hazards associated with exposure to excessive noise. This will include internal training on the proper use and maintenance of plant and equipment, positioning of machinery to reduce noise emissions to surrounding receptors and site personnel, avoidance of unnecessary noise and the protection of persons against noise.

4.0 MONITORING AND RECORDS

- 4.1 Noise emissions will be assessed during the daily site inspection. In the event plant is considered to be causing unusual or elevated noise emissions it will be recorded in the site diary, along with the action taken.
- 4.2 Noise level monitoring will be undertaken every six months by a qualified monitorer and assessed against the thresholds set out with the Waste Planning Authority. The receptor locations are Pratts Farm (northern receptor), Golf Course, Belstead (eastern receptor), Belstead Farm Lane (southern receptor), Hill Farm Cottage (southern receptor) and adjacent to the A130 (western receptor). All monitoring results will be kept by the site team during the life of the permitted operations and a copy will be supplied to the Waste Planning Authority.
- 4.3 The inspection of noise levels generated by the operation will be on a continuous basis by the site staff and it will be their responsibility to identify and control any excessive noise that occurs. If external complaints are raised, the complaints procedure, timescales and form will be implemented (attached in Appendix B). In the event of substantiated noise complaints, quantitative monitoring will be undertaken.
- 4.4 In addition to the day to day site monitoring, a competent environmental noise assessor will undertake attended monitoring at the start of the external processing for the full operational day and then at least monthly periods. The results will be provided to Essex County Council and the Environment Agency.
- 4.5 Potential controls to further mitigate noise in the event of a noise complaint/or through site inspection are shown below but will be relevant to the likely noise source:
- Temporary cessation of processing during internal investigation; and
 - Cap limit on HGV movements to and from site during more sensitive hours or limit to certain times of the day.
- 4.6 A record of any complaints arising regarding noise emissions and the actions taken will be kept in the Site Diary.
- 4.7 In the event of sustained noise issues or substantiated complaints, this NMP will be reviewed and updated. The NMP will be issued to the Environment Agency for approval and operations will cease within 100 m of the impacted receptor(s).
- 4.8 Vibration is not considered to be significant and routine operations are not anticipated to have an impact.

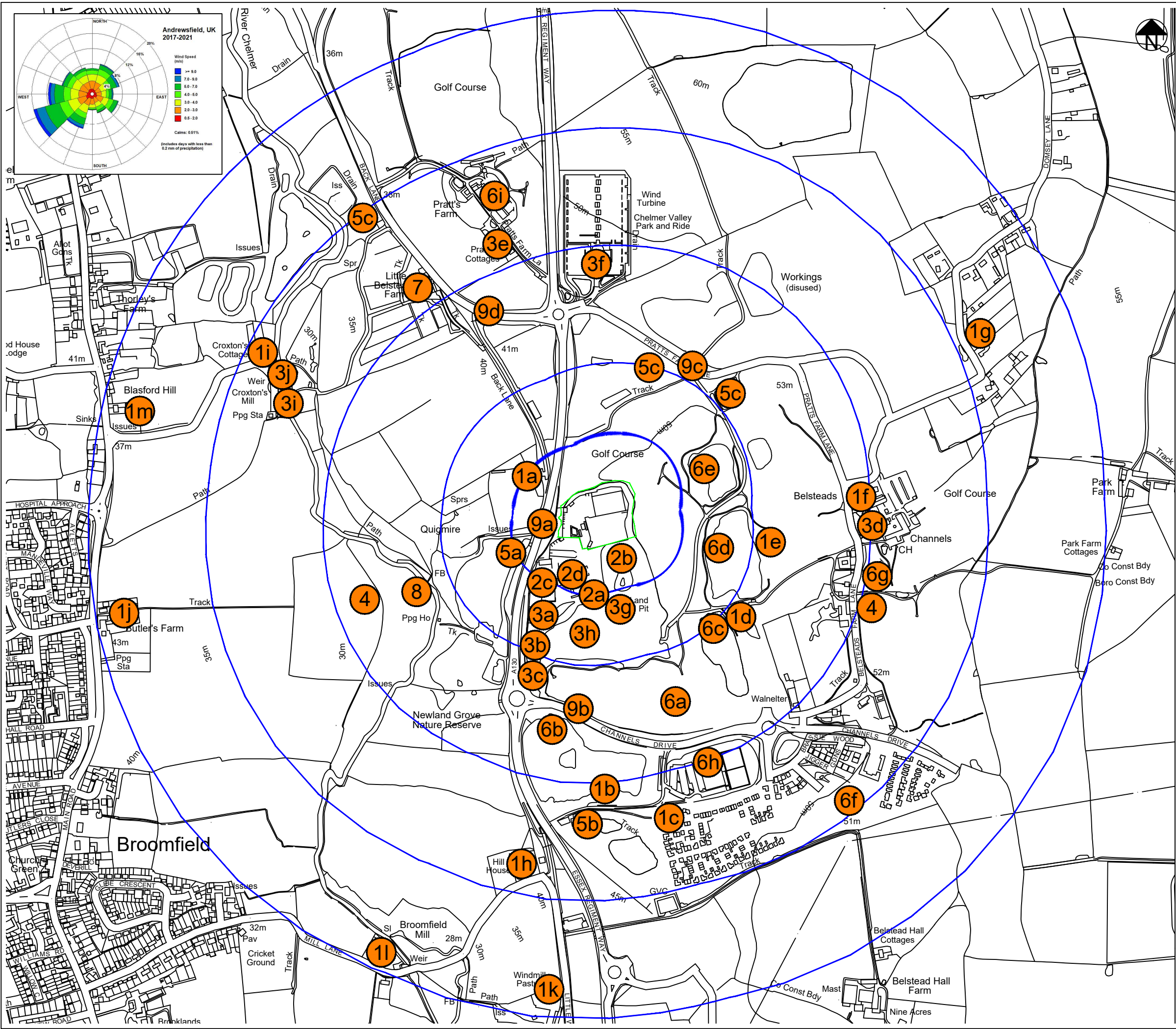
DRAWINGS



Key:
 Site Boundary

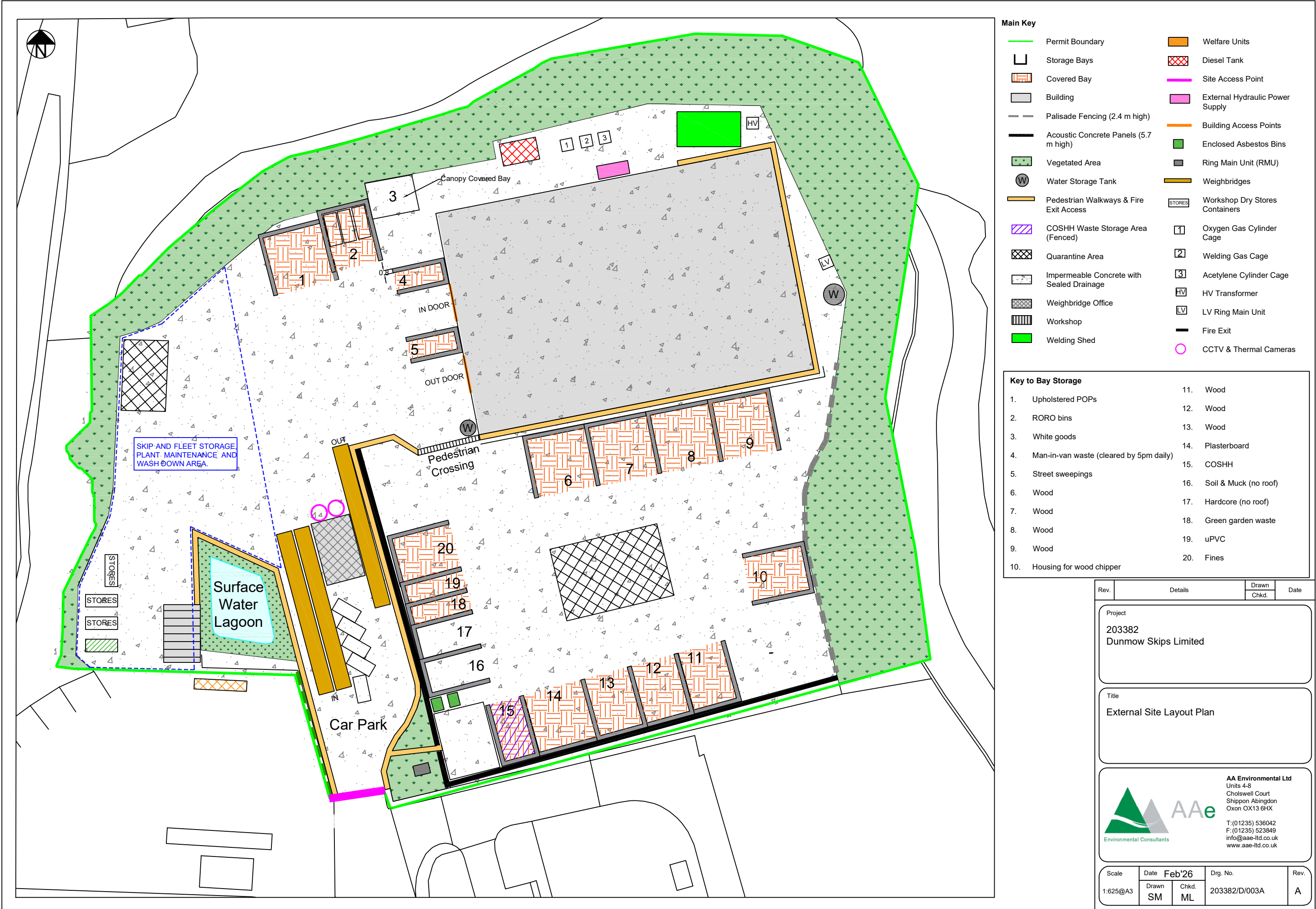
The site is located at National Grid Reference TL 71805 11240

Rev.	Details	Drawn Chkd.	Date
Project 203382 Dunmow Skips Limited			
Title Site Location Plan			
 AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T:(01235) 536042 F:(01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk		Scale 1:5,000@A3	
Date Jul'21		Drg. No. 203382/D/001	
Drawn SM		Chkd. ML	
Rev.		Rev.	



- Key:
- 1 Residential
 - a) Dwellings next to Essex Regiment Way
 - b) Dwellings off Lakeview Crescent
 - c) Dwellings off Fairway Drive / Brassie Wood
 - d) Dwelling off Lower Wimbush Road / Channels Drive
 - e) Housing development next to Channels Lake
 - f) Dwellings off Channels Drive
 - g) Dwellings off Domsey Lane
 - h) Dwellings off Mill Lane
 - i) Dwelling near the River Chelmer
 - j) Butler's Farm Dwellings
 - k) Dwelling on Little Waltham Road
 - l) Dwelling on Mill Lane
 - m) Dwelling on Blasfords Hill
 - 2 Industrial / Commercial
 - a) Express Asphalt Chelmsford Essex
 - b) Marlborough Highways
 - c) Sunshine Skips
 - d) The Grab Hire Company
 - 3 Commercial
 - a) McDonalds
 - b) Shell Petrol Station
 - c) Costa Coffee
 - d) Channels Lodge / Bar & Brasserie
 - e) The Bistro at Little Channels
 - f) Chelmer Valley Park & Ride
 - g) 4D Fit
 - h) Morrisons
 - i) Essex Scaffolding Supplies
 - j) Croxtons Mill
 - 4 Agricultural Land
 - 5 Ecological
 - a) Newlands Grove Nature Reserve
 - b) Regiment Way Nature Reserve
 - c) Deciduous Woodland
 - 6 Recreational
 - a) Channels Play Park / Skate Park
 - b) Boueux Lake
 - c) Condor Lake
 - d) Channels Lake
 - e) Swallow Lake
 - f) Cordelia Park
 - g) Channels Village Green
 - h) Falcons Bowling Club
 - i) Little Channels Golf Centre
 - 7 The Belsteads School
 - 8 River Chelmer
 - 9 Public Roads
 - a) Essex Regiment Way
 - b) Channels Drive
 - c) Pratts Farm Lane
 - d) Back Lane

Rev.	Details	Drawn Chkd.	Date
Project			
203382 Dunmow Skips Limited			
Title			
Sensitive Receptor Plan			
AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T:(01235) 536042 F:(01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk			
Scale	Date	Drg. No.	Rev.
1:7500@A3	Apr'25 Drawn EF	203382/T/D/003 Chkd. EB	



Main Key

- Permit Boundary

Storage Bays

Covered Bay

Building

Palisade Fencing (2.4 m high)

Acoustic Concrete Panels (5.7 m high)

Vegetated Area

Water Storage Tank

Pedestrian Walkways & Fire Exit Access

COSHH Waste Storage Area (Fenced)

Quarantine Area

Impermeable Concrete with Sealed Drainage

Weighbridge Office

Workshop

Welding Shed
- Welfare Units

Diesel Tank

Site Access Point

External Hydraulic Power Supply

Building Access Points

Enclosed Asbestos Bins

Ring Main Unit (RMU)

Weighbridges

Workshop Dry Stores Containers

Oxygen Gas Cylinder Cage

Welding Gas Cage

Acetylene Cylinder Cage

HV Transformer

LV Ring Main Unit

Fire Exit

CCTV & Thermal Cameras

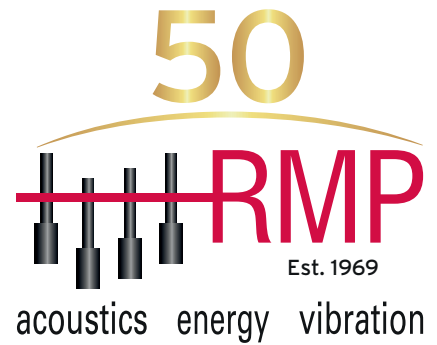
Key to Bay Storage

- | | |
|--|---------------------------|
| 1. Upholstered POPs | 11. Wood |
| 2. RORO bins | 12. Wood |
| 3. White goods | 13. Wood |
| 4. Man-in-van waste (cleared by 5pm daily) | 14. Plasterboard |
| 5. Street sweepings | 15. COSHH |
| 6. Wood | 16. Soil & Muck (no roof) |
| 7. Wood | 17. Hardcore (no roof) |
| 8. Wood | 18. Green garden waste |
| 9. Wood | 19. uPVC |
| 10. Housing for wood chipper | 20. Fines |

Rev.	Details	Drawn Chkd.	Date
Project 203382 Dunmow Skips Limited			
Title External Site Layout Plan			
Environmental Consultants AAe AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T: (01235) 536042 F: (01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk			
Scale 1:625@A3	Date Feb'26	Drwn SM	Chkd. ML
Drg. No. 203382/D/003A		Rev. A	

Appendix A

BS4142 Assessment



Unit 1, 7Hills Business Park
37 Bankhead Crossway South
Edinburgh
EH11 4EP

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www.rmp.biz

BRIEF FOR CONSULTANCY:

To carry out a noise impact assessment associated with a variation of Condition 21 of Planning Permission ESS/17/17/CHL to vary permitted operational hours.

Dunmow Skips Limited
7 Regiment Business Park
Eagle Way, Chelmsford
CM3 3FY
ESS/17/17/CHL

Report No. R-9078E-DJC5-RGM
15th January 2024

PREPARED FOR:

Dunmow Skips Limited
C/o AA Environmental Ltd
Units 4 to 8
Cholswell Court
Shippon
Abingdon
OX13 6HX

For the attention of Matthew Lawman

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1.0 Introduction

- 1.1 RMP was instructed by AA Environmental Ltd, on behalf of Dunmow Skips Limited (trading as Dunmow Group), to undertake a noise impact assessment on the nearest existing noise-sensitive receptor(s), to support a planning application Condition 21 of Planning Permission ESS/17/17/CHL regarding operational hours on land occupied by Dunmow Group at 7 Regiment Business Park Eagle Way, Chelmsford CM3 3FY.
- 1.2 The site is permitted to operate under the terms of the above referenced planning permission issued by Essex County Council on 13th June 2017.
- 1.3 The site comprises an area of land near Little Waltham (northeast Chelmsford) and is bounded to the west by the main Essex Regiment Way road (A130). To the east and south is the now disused Channels Lodge Golf Course, upon which ~750 dwelling houses have been consented to be built. Some phases consisting of what appears to be several hundred homes are fully completed to the east and southeast, whilst others are at different phases of construction and completion.
- 1.4 The nearest noise sensitive receivers (NSRs) to the site are as follows and indicated in the plan in Appendix A:
- A. R1: A private residential dwelling to the northwest at approximately 90 m from the site boundary, or approximately 140 m northwest of the centre of the site.
 - B. R2, R4 and R5: Channel's Neighbourhood development, ~750 new residential: dwelling homes, the nearest (worst-case) occurring approximately 385 m to the east and southeast of the centre of the site (~270 m east of the nearest site boundary).
 - C. R3: Channel's Lodge Hotel, approximately 585 m to the east of the centre of the site (~475 m from the eastern site boundary), albeit shielded by the intervening housing development (R4).
- 1.5 R2, R3 and R5 are further away from the site and therefore source noise will attenuate further with the increased distances. Consequently,

achieving noise limits/criteria at NSRs 1 and 4, would automatically result in compliance at R2, R3 and R5.

- 1.6 The site location, boundary and worst-case NSRs R1 and R4 are shown in the Google Map's screenshot in Figure 1.



Figure 1. Site location and nearest NSRs

- 1.7 Noise monitoring has occurred at different periods over the past 2-3 years by RMP and AAe.

2.0 Condition 21

2.1 Condition 21 currently reads as follows:

21. The development hereby permitted shall only be carried out during the following hours:

- 06:00 hours to 18:00 hours Monday to Friday
- 06:00 hours to 13:00 hours Saturday

And at no other time on Sundays, Bank or Public Holidays.

Reason: In the interest of limiting the effects on local amenity and to control the impacts of the development and to comply with policy W10E of The Essex & Southend Waste Local Plan adopted September 2001 and policies CP13, DC14, DC29 and DC48 of the Chelmsford City Council Core Strategy and Development Control Policies 2008 (CCS), as amended by the Core Strategy and Development Control Policies Focused Review 2013.

2.2 Condition 21 is proposed to be amended to:

21. The development hereby permitted shall only be carried out during the following core hours:

- i. Waste processing within the building is permitted 24/7.*

Doors to be kept closed between:

- Monday to Friday 20.00-06.30 hours
- Friday 19.00-07.00 hours Saturday
- Saturday 16.00-06.30 hours Monday.

Note if Monday is a Bank or Public Holiday, doors to be kept closed until 06:30 the next appropriate working day.

- ii. Processing externally:*

- Monday to Friday 06:30-19.00
- Saturday 07.00-16.00
- No external processing to take place on a Sunday, Bank or Public Holiday.

iii. Loading vehicles externally:

- Monday to Friday 06:30-19.00*
- Saturday 07.00-16.00*
- No external processing to take place on a Sunday, Bank or Public Holiday.*

iv. Vehicle movements to and from the site:-

- Monday to Friday 04:00-20.00*
- Saturday 04.00-16.00*
- No vehicle movements to take place on a Sunday, Bank or Public Holiday.*

3.0 Industrial Noise

- 3.1 Industrial noise is assessed against the guidance given in BS 4142: 2014+A1:2019 '*Methods for rating and assessing industrial and commercial sound*'.
- 3.2 Conducting an assessment in accordance with BS 4142 involves measuring the existing background noise level at a position representative of the NSR during the times of operation of the commercial/industrial premises. This value is then compared with the rating level; which is the specific noise level generated by the source, corrected if appropriate to allow for the character of the noise. The difference between the two is calculated so as to give an assessment level, which is used to indicate the likelihood of adverse impact, depending on the context.
- 3.3 BS 4142 suggests that, in general, a difference of around + 5 dB is likely to be an indication of an adverse impact, depending on the context. A difference of around + 10 dB or more is likely to be an indication of a significant adverse impact, depending on the context. Note that Essex County Council have historically applied a +5 dB threshold not to be exceeded for this site.
- 3.4 Where the initial estimate of the impact needs to be modified due to the context, consideration should be given to the following factors:
- *The absolute level of sound, with consideration to background level, rating level and the residual sound level in the acoustic environment;*
 - *The character and level of the residual sound compared to the character and level of the specific sound;*
 - *The sensitivity of the receptor and whether dwellings will already incorporate design measures that provide good internal and/or outdoor acoustic conditions, such as façade insulation, ventilation*

and/or cooling that will reduce the need to have windows open for rapid ventilation, and acoustic screening.

3.5 Context is further defined within BS 12913 – 1 (2014): Acoustics – Soundscape, provides a framework for considering context (see Figure 2 below). Factors include;

- Sensation; meteorological conditions, hearing impairments.
- Interpretation; attitudes to source and producer, experience and expectations, visual and odour.
- Responses to environment; time of day, lighting, weather; emotional state, ability to deal with the situation and exposure.

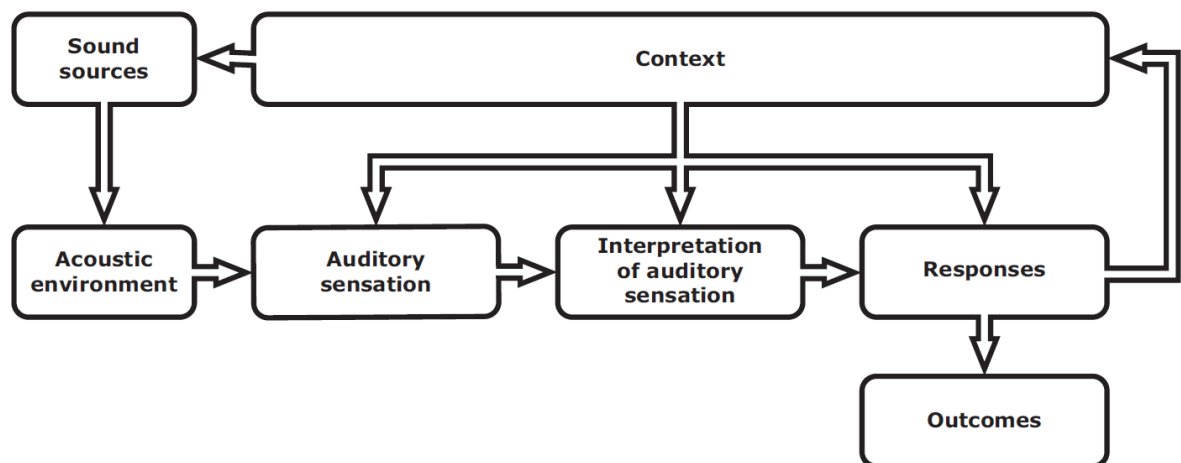


Figure 2: BS12913-1 “*Elements in the perceptual construct of soundscape*”

4.0 Noise Measurements

4.1 Historically there have been several manned and unmanned noise surveys undertaken at this site by RMP and by AAe as follows:

- A. Manned measurements of the existing background noise equivalent representative location to the worst-case NSR R1 were undertaken by AAe between 21st-22nd July 2022. Noise at this location was dominated by road traffic noise along the A131, with noise significantly increasing after 05:30.
- B. Unmanned long term 9-day/8-night survey was undertaken by AAe between Wednesday 15th to Thursday 23rd February 2023 along/on top of the earth bunding at the northwestern boundary of the site (~51.5m AOD).
- C. Unmanned long term 7-day/7-night survey was undertaken by AAe between Thursday 21st July to Thursday 28th July 2022, at the centre of the site (approximately 3.7 m above local ground level).
- D. Unmanned long term 7-day/7-night survey was undertaken by RMP between Monday 7th June to Monday 14th June 2021, at two locations, position 1 at the centre of the site (approximately 3.7 m above local ground level) and position 2 approximately 285 m north/northeast from the centre of the recycling facility (~200 m from the facility's northern boundary), 1.5 m above local ground level was chosen as a representative location with relevant distance from the site, compared to the residential dwellings to the east, so as to avoid the ongoing daytime construction noise that was witnessed at Channel's development.

- 4.2 During the monitoring the following activities were observed and advised by the Client to have been undertaken at the time:

2021 monitoring

Monday to Saturday, between 0600 and 1800 hours transportation of waste occurred to and from the site, waste processing occurred in the building, open scrap metal operations were operational in the land west of the main site. No activities were completed on the Sunday.

2022 monitoring

The daytime activities were consistent with 2021. At night, processing operations occurred in the waste building, there were limited/no activities in the yard.

2023 monitoring

Same as 2021 and 2022.

- 4.3 All measurements were carried out as far as practicable in accordance with BS 7445-1:2003 *Description and measurement of environmental noise, Part 1: Guide to quantities and procedures*.
- 4.4 All measurement instruments for all surveys A-D were calibrated prior to and after the measurement periods, in accordance with manufacturers' instructions. All instruments complied with Class 1 status. No deviation of the calibration levels were recorded. All instruments had full calibration histories. All information related to these are readily available upon written request.
- 4.5 The full results of the above surveys A-D have been previously documented and are also readily available upon written request.

- 4.6 For summary and completeness, the background (dB L_{A90}) and ambient (dB L_{Aeq}) noise levels across each Survey A-D for daytime and/or night-time periods are depicted in the Tables 1-5 over the next three pages.

Table 1. Survey A, free-field noise measurement summary at NSR R1, (dB re 2 x 10⁻⁵ Pa), 21st-22nd July 2022		
(Start Time)	Ambient dB L_{Aeq-15min}	Background dB L_{A90-15min}
13:10	62	56
15:30	62	56
19:15	61	52
20:26	60	50
22:58	56	42
04:04	54	35
05:08	59	42
05:25	58	45
06:10	60	50

Table 2. Survey B, NW Bund free-field noise measurement summary (dB re 2 x 10⁻⁵ Pa)			
February 2023	Daytime 07:00 – 23:00 hrs.	Night-time 23:00 – 07:00 hrs.	
	Ambient dB L_{Aeq,1hr}	Ambient dB L_{Aeq,15-min}	Typical Lowest Background dB L_{A90,1-min}
Wednesday 15 th	68	63	43
Thursday 16 th	69	63	44
Friday 17 th	69	62	43
Saturday 18 th	68	62	45
Sunday 19 th	68	63	35
Monday 20 th	69	63	40
Tuesday 21 st	68	63	38
Wednesday 22 nd	69	63	43
Thursday 23 rd	68	-	-

Table 3. Survey C, (Source) free-field noise measurement summary (dB re 2 x 10⁻⁵ Pa) centre of site			
July 2022	Daytime 07:00 – 23:00 hrs.	Night-time 23:00 – 07:00 hrs.	
	Ambient dB L_{Aeq,1hr}	Ambient dB L_{Aeq,15-min}	Typical Lowest Background dB L_{A90,1-min}
Thursday 21 st	69	67	55
Friday 22 nd	72	60	55
Saturday 23 rd	63	46	44
Sunday 24 th	62	59	41
Monday 25 th	71	63	48
Tuesday 26 th	72	62	57
Wednesday 27 th	73	63	48
Thursday 28 th	74	-	-

Table 4. Survey D – Pos 1 (Source), free-field noise measurement summary (dB re 2 x 10⁻⁵ Pa) centre of site			
June 2021	Daytime 07:00 – 23:00 hrs.	Night-time 23:00 – 07:00 hrs.	
	Ambient dB L_{Aeq,1hr}	Ambient dB L_{Aeq,15-min}	Typical Lowest Background dB L_{A90,1-min}
Monday 7 th	70	69	43
Tuesday 8 th	72	66	44
Wednesday 9 th	74	68	51
Thursday 10 th	72	69	58
Friday 11 th	72	60	42
Saturday 12 th	67	61	42
Sunday 13 th	57	66	38
Monday 14 th	73	-	-

Table 5. Survey D – Pos 2 (NSR), free-field noise measurement summary (dB re 2 x 10⁻⁵ Pa)			
June 2021	Daytime 07:00 – 23:00 hrs.	Night-time 23:00 – 07:00 hrs.	
	Ambient dB L_{Aeq,1hr}	Ambient dB L_{Aeq,15-min}	Typical Lowest Background dB L_{A90,1-min}
Monday 7 th	49*	49	34
Tuesday 8 th	49	48	34
Wednesday 9 th	50	49	34
Thursday 10 th	51	48	35
Friday 11 th	54	47	35
Saturday 12 th	59	47	37
Sunday 13 th	47	48	35
Monday 14 th	51*	-	-

*not a full 16-hr daytime period

- 4.7 In relation to Table 5, the lowest typical background noise levels occur in the middle of the night-time. Due to the noise environment, road traffic noise dominated the soundscape and as per Table 1, levels after 05:30 increased significantly. Table 6 overleaf demonstrates the 15-minute noise levels from 05:30-07:00 for Survey D, Position 2 (The Channels).

Table 6. Survey D – Pos 2 (NSR), free-field noise measurement summary
8-14 July 2021 05:30-07:00 15-min Periods - (dB re 2 x 10⁻⁵ Pa)

Tuesday	dB LAeq	dB LA90		Friday	dB LAeq	dB LA90		Saturday	dB LAeq	dB LA90
2021/06/08 05:30:00	52	45		2021/06/11 05:30:00	51	42		2021/06/12 05:30:00	50	38
2021/06/08 05:45:00	52	47		2021/06/11 05:45:00	51	45		2021/06/12 05:45:00	44	38
2021/06/08 06:00:00	52	48		2021/06/11 06:00:00	51	45		2021/06/12 06:00:00	45	40
2021/06/08 06:15:00	52	46		2021/06/11 06:15:00	52	47		2021/06/12 06:15:00	49	42
2021/06/08 06:30:00	54	47		2021/06/11 06:30:00	53	48		2021/06/12 06:30:00	48	43
2021/06/08 06:45:00	52	47		2021/06/11 06:45:00	53	49		2021/06/12 06:45:00	49	42
Wednesday				Monday				Sunday		
2021/06/09 05:30:00	51	43		2021/06/14 05:30:00	53	46		2021/06/13 05:30:00	51	39
2021/06/09 05:45:00	53	45		2021/06/14 05:45:00	52	47		2021/06/13 05:45:00	50	38
2021/06/09 06:00:00	50	44		2021/06/14 06:00:00	54	49		2021/06/13 06:00:00	51	38
2021/06/09 06:15:00	50	44		2021/06/14 06:15:00	51	46		2021/06/13 06:15:00	51	38
2021/06/09 06:30:00	51	46		2021/06/14 06:30:00	52	47		2021/06/13 06:30:00	50	40
2021/06/09 06:45:00	51	47		2021/06/14 06:45:00	52	47		2021/06/13 06:45:00	51	39.9
Thursday										
2021/06/10 05:30:00	57	45								
2021/06/10 05:45:00	50	45								
2021/06/10 06:00:00	54	47								
2021/06/10 06:15:00	52	45								
2021/06/10 06:30:00	53	46								
2021/06/10 06:45:00	53	48								

5.0 Industrial Noise Sources

Vehicle Movements

- 5.1 The proposals (in line with the proposed amendments to Condition 21 – paragraph 2.2), are to load HGV's/Bulk Lorries (Condition 21iii) in the evenings up until 19.00 hours Monday to Friday (and 07.00-13.00 hours Saturday); see "Loading and Site Noise" paragraphs 5.8-5.9 for source noise.
- 5.2 The worst case assessment would consider the loaded vehicles setting off from 4am to 6am Monday to Saturday (Condition 21iv) at a rate of up to 10 an hour, or at a worst-case two every 15mins.
- 5.3 No on-time or intermittency correction is required in accordance with BS 4142 for the 15-min assessment period during night-time. However a +3 dB correction for two events occurring in a 15 minute period has been applied.
- 5.4 No tonality penalty has been applied as reversing alarms are to be solely of a broadband variety; note that typically, lorries will not be required to reverse when setting off in the early mornings regardless.
- 5.5 No sound character correction has been applied to the rating level of this source as at the NSRs, door slams and raised voices are unlikely to be subjectively deciphered at the 140 m and 350 m distances between source and NSRs.
- 5.6 Distance attenuation has been calculated using hemispherical propagation.
- 5.7 For the source noise, it has not been possible to isolate only these activities of lorries starting and driving away at this site. However, RMP have historically measured these on another site (a service yard) with the activities and associated noise levels detailed in Table 7 overleaf.

Table 7. RMP Noise measurement results (dB re 20 µPa)

Measurement Subject	Measurement Description	Start Time	Duration (hh:mm:ss)	Distance From Source (m)	L _{Aeq} (dB)	L _{A90} (dB)	L _{AFmax} (dB)
Removal Yard Morning Loading	10 HGV movements, raised voices, broadband reversing alarms	01/02/19 07:28	01:00:00	16	60	53	80

Loading and Site Noise

- 5.8 In respect to all Dunmow related recycling activities on site (including plant and plant movements, vehicles loading/unloading and processing etc.), a worst-case assessment for Conditions 21i, 21ii and 21iii, would consider the worst-case measured noise level on site from Tables 2, 3 and 4, namely 74 dB L_{Aeq} Monday to Friday and 68 dB L_{Aeq} on a Saturday (distances at approximately 25 m from all sources).
- 5.9 In accordance with BS4142:2014 an intermittency correction of +3 dB has been applied to the rating level of this source as noise can stop and start throughout the operational days from external sources at site.

6.0 Noise Impact Assessment

- 6.1 The following section contains the noise impact assessments for both “Vehicle Movements” and for “Loading and Site Noise” at the worst-case NSRs 1 and 4.
- 6.2 The assessment considers the distance losses from source to receiver and the additional losses that are provided by the barriers that surround the site. To the northwest there is the intervening bunding, this provides a minimum 10 m high barrier between NSR R1 and the site. By our calculations, using the Maekawa standard using this height and distances between the source and receiver, this provides a conservative -15 dB attenuation (mid to high frequencies are attenuated by 20-25 dB, although these are ignored to demonstrate a worst-case scenario). To the east, there is part intervening building (waste processing) and a 2.5 m imperforate fencing that provides a -10 dB attenuation.

Vehicle Movements

- 6.3 The predicted night-time rating level of the noise impact of the vehicle movements at the NSRs, taking into account the aforementioned corrections where required, are given in Table 8 (NSR 1) and Table 9 (NSR 4).

Table 8. BS 4142 assessment of vehicle movement/activity noise at NSR 1 (dB re 2 x 10⁻⁵ Pa)	
Description	Night – Mon-Sat
Source Noise @ 16m	60
Distance Loss (20*log(16m/140m))	-19
2x Movements in 15 mins	+3
Barrier (Bund) Effect	-15
Rating level, L _{Ar,Tr}	29
Background noise level, L _{A90} (Table 1)	35
Difference	-6
BS 4142 Assessment	Low Impact

Table 9. BS 4142 assessment of vehicle movement/activity noise at NSR 4 (dB re 2 x 10⁻⁵ Pa)	
Description	Night – Mon-Sat
Source Noise @ 16m	60
Distance Loss (20*log(16m/385m))	-28
2x Movements in 15 mins	+3
Barrier (Fence) Effect	-10
Rating level, L _{Ar,Tr}	25
Background noise level, L _{A90} (Table 1)	34
Difference	-9
BS 4142 Assessment	Low Impact

6.4 The results presented in Tables 8 and 9 indicate that the noise rating level associated with the movement of vehicles early in the morning (Proposed Condition 21iv) will fall approximately -6 dB and -9 dB respectively below the lowest typical measured background noise levels at the NSRs 1 and 4. In accordance with BS 4142: 2014 the sound source indicates a low impact on the receivers and would therefore be acoustically acceptable.

6.5 Loading and Site Noise

6.6 The predicted daytime and night-time (operations to start at 06:30) rating level of the vehicle loading and site noise impact at the NSRs, taking into account the aforementioned corrections where required, are given in Table 10 (NSR 1) below and Table 11 (NSR 4) overleaf.

Table 10. BS 4142 assessment of site operations at NSR 1 (dB re 2 x 10⁻⁵ Pa)		
Description	Night (06:30) Mon-Fri	Day - Saturday 07:00-16:00
Worst-Case Source Noise @ 25m	74	68
Distance Loss (20*log(25m/140m))	-15	-15
Intermittency	+3	+3
Barrier (Bund) Effect	-15	-15
Rating level, L _{A,T}	50	41
Background noise level, L _{A90}	50 (Table 1 – 06:10)	45 / 50 (Table 1)
Difference	0	-4 / -9
BS 4142 Assessment	Low Impact	Low Impact

Table 11. BS 4142 assessment of site operations at NSR 4 (dB re 2 x 10⁻⁵ Pa)		
Description	Night (06:30) Mon-Fri	Day - Saturday 07:00-16:00
Worst-Case Source Noise @ 25m	74	68
Distance Loss (20*log(25m/385m))	-24	-24
Intermittency	+3	+3
Barrier (Fence) Effect	-10	-10
Rating level, L _{A_r,Tr}	43	37
Background noise level, L _{A90} (Table 6)	42	38
Difference	+1	-1
BS 4142 Assessment	Low Impact	Low Impact

6.7 The results presented in Tables 10 and 11 indicate that the noise rating level associated with all site activities (Conditions 21i, 21ii and 21iii) will fall below or equal the lowest typical measured background noise levels at the NSRs 1 and 4. In accordance with BS 4142: 2014 the sound source indicates a low impact on all NSRs and would therefore be acoustically acceptable.

Prepared by:

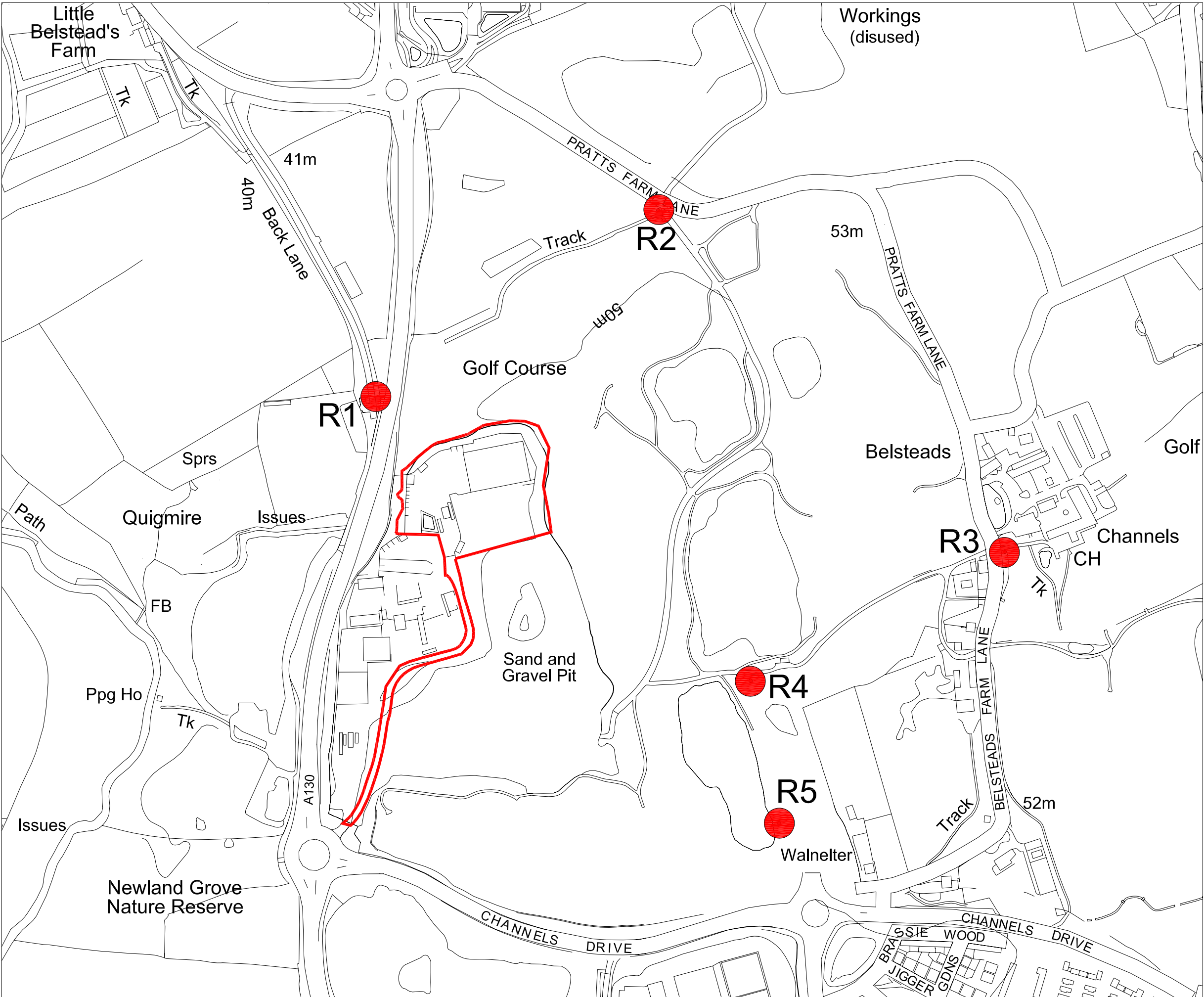
Approved by:

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Richard Mackenzie
BSc, PGDip, MIOA, MInst SCE

Appendix A

NSR measurement positions/locations



Key:

- Nearest Sensitive Monitoring Location

R1 - Blenheim Cottage
R2 - Pratts Farm Lane (north of site)
R3 - Channels Lodge Hotel
R4 - Lower Wimbush Road (north portion of road)
R5 - Lower Wimbush Road (south portion of road)

Rev.	Details	Drawn Chkd.	Date
Project			
203382 Dunmow Skips Limited			
Title			
Proposed Noise Survey Sensitive Receptor Plan			
 AA Environmental Ltd Units 4-8 Cholswell Court Shippon Abingdon Oxon OX13 6HX T:(01235) 536042 F:(01235) 523849 info@aae-ltd.co.uk www.aae-ltd.co.uk			
Scale	Date	Dec'23	Drg. No.
1:4,000@A3	Drawn	KW	Chkd. EB
203382/NSR/D/002			Rev.

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Appendix B

Complaint Form & Procedure

Complaints Procedure

203382/CP

INTRODUCTION

This Complaints Procedure outlines how the Operator will respond in the event of a complaint. A complaint may arise relating to the site permitted activities involving a nuisance (dust, noise, odour, pests). This procedure contains information on how any complaint will be investigated and any actions taken as a result of the complaint.

KEY CONTACTS

The key contacts will be shown on the site notice board at the site entrance. Alternatively, any complaints can be made at the site to any site operative and/or the Site Manager.

PROCEDURE

1. Any complaints made will be immediately logged by the Site Manager and/or Site Operative. In the event a complaint is made to a Site Operative, the Site Operative will refer the complaint to the Site Manager. If able to do so, the complainant details will be taken on initial contact either by phone or in person. The response time is typically within 1 hour.
2. The Site Manager (or nominated operative) will discuss any concerns with the complainant directly within 1 working day of the complaint being made; and request contact details to notify the complainant of any updates/corrective measures. The complaint will be logged using the Complaint Form (attached) and given a unique reference number.
3. The Site Manager will review the site activities and ensure control measures are in accordance with the Site's Management Systems. This review will typically happen in conjunction with point 1 and review will be undertaken within 2 working days of complaint being made.
4. Once initial contact and review of the site has been undertaken, the Site Manager will investigate the location of concern raised in relation to the site i.e. at a local receptor location and/or public highway to inspect the impact on the receptor. This will occur within 3 working days.
5. The Site Manager will notify the complainant of any updates to the control measures / site operations. Control measures may be corrective and/or preventative and include additional control measures and/or increase the frequency of an existing control measure. Alternatively, the design of the site operations may change to decrease nuisance to that receptor. The notification will be within 1 week of the complaint being made.
6. In the event the same issue persists, the Site Manager will further review site operations and control measures. This may require a temporary cessation of certain operations whilst additional measure is implemented. The works will not recommence until further control measures have been incorporated and a review of effectiveness has been agreed / witnessed by the Site Manager. The complainant will be kept abreast of further measures. This is likely to be within 1-2 weeks subject to what the complaint is, severity of complaint and associated activity taking place.
7. In the event of an out of hour complaint, the complaint will be picked up on the next working day and dealt with as per point 1-6 above.

RECORDS

On site Records

A copy of this procedure is kept on site and briefed to all site operatives upon site induction. Any identified complaints, incidents or accidents, as well as corrective measures, are recorded in the Complaint Form. Copies of the complaint forms are kept on site.

Complaints Procedure

203382/CP

Review

This procedure is reviewed on a yearly basis or post-incident to ensure it remains up-to-date with the site operations. The review procedure would involve the Senior Management Team and site team collectively to establish the root cause and the best available control techniques. The review will take place within 1 month of the incident.

Complaint Form

Complaint Form Reference No.			
Date of Complaint			
Details of Complainant			
Name			
Address			
Contact Number		Email Address	
Nature of Complaint			
Reported To		Date of Incident (if different to date of complaint)	
Corrective Measure Taken			
Follow up Communication with Complainant			
Preventative Measure Taken (if any)			
Sign off		Close out Date	