

ENVIRONMENTAL MANAGEMENT SYSTEM

Units 9, 10 & 11, Vauxhall Industrial Estate, Ruabon, Wrexham LL14 6HA

New Horizon Biofuel and Animal Beddings Co Ltd

Version:	2.4	Date:	31 July 2024		
Doc. Ref:	VIE-2704-A	Author(s):	CP	Checked:	NHB
Client No:	2704	Job No:	017		



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

Document History:

Version	Issue date	Author	Checked	Description
1.0	10/09/2021	CP	--	Document issue
1.1	11/10/2021	CP	NHB	Re-submission
1.2	22/01/2022	CP	NHB	NRW comments
1.3	26/09/2022	CP	NHB	NRW comments
1.4	27/09/2022	CP	NHB	NRW comments
1.5	11/11/2022	CP	NHB	NRW comments
1.6	15/11/2022	CP	NHB	NRW comments
1.7	28/11/2022	CP	NHB	NRW comments
1.8	28/07/2023	CP	CP	New variation application copy
1.9	04/10/2023	CP	NHB	Updated due to re-addition of Unit 10
2.0	08/12/2023	CP	NHB	Updated following new activities proposed
2.1	23/02/2024	CP	NHB	NRW/operator comments – updated sections 1.4.3, 1.4.4, table 1.5 (section 1.6), 3.6.2 and site layout plan in Appendix I
2.2	15/05/2024	CP	NHB	NRW comments, refer to Schedule 5 response for updated sections. References to glass recycling, grade A wood removed also.
2.3	10/07/2024	CP	NHB	NRW comments, updated table 1.4, section 1.6.6 and site plan In Appendix I
2.4	31/07/2024	CP	NHB	NRW comments, updates to Sections 3.2.2 and 3.6.2

CONTENTS

DOCUMENT HISTORY:	I
CONTENTS	II
LIST OF TABLES:	IV
LIST OF APPENDICES:	V
SITE INFORMATION & KEY CONTACTS LIST	VI
1 GENERAL CONSIDERATIONS	1
1.1 SITE OPERATOR/PERMIT INFORMATION	1
1.2 RELEVANT CONTACTS	2
1.3 SITE LOCATION	2
1.4 PERMIT AREA/WASTE MANAGEMENT OPERATIONS	3
1.5 HOURS OF OPERATION	5
1.6 WASTE TYPES AND QUANTITIES	5
1.7 STAFFING AND MANAGEMENT	10
1.8 HEALTH AND SAFETY	10
1.9 FIT AND PROPER PERSONS	10
2 SITE ENGINEERING AND INFRASTRUCTURE	11
2.1 SITE DESCRIPTION	11
2.2 ACCESS AND PARKING	12
2.3 SITE OFFICE	12
2.4 WEIGHBRIDGE	12
2.5 NOTICE BOARD AND SIGNS	13
2.6 SITE SECURITY	13
2.7 NON-WASTE FUEL AND OTHER HAZARDOUS STORAGE	14
2.8 DRAINAGE	14
2.9 VEHICLES, PLANT AND EQUIPMENT	15
2.10 MOBILE AND FIXED PLANT MAINTENANCE	16
3 SITE OPERATIONS	17
3.1 PRELIMINARY PROCEDURES	17
3.2 CHECKING IN & INSPECTION OF LOADS (CONTAINERS)	19
3.3 CHECKING IN & INSPECTION OF LOADS (GENERAL)	22
3.4 REJECTED / QUARANTINED WASTE	23
3.5 WEIGHING AND CATEGORISING LOADS	24
3.6 WASTE TREATMENT	24
3.7 WASTE STORAGE (HAZARDOUS PLASTIC)	28
3.8 WASTE REMOVAL & EXPORT	29
3.9 SAMPLING AND ANALYSIS	29
3.10 RECORD KEEPING	30
3.11 SITE CLOSURE PLAN	32
4 ENVIRONMENTAL CONTROL, MONITORING AND REPORTING	33
4.1 BREAKDOWNS AND SPILLAGES	33
4.2 SITE DIARY / INSPECTION FORM	34
4.3 SECURITY MONITORING	34
4.4 CONTROL OF MUD AND DEBRIS	34
4.5 CONTROL OF DUST	34

4.6	ODOUR CONTROL	34
4.7	LITTER CONTROL & MANAGEMENT	35
4.8	CONTROL OF PESTS, BIRDS AND OTHER SCAVENGERS	36
4.9	CONTROL AND MONITORING OF NOISE & VIBRATION.....	36
4.10	COMPLAINT'S PROCEDURE.....	39
4.11	RESPONDING TO NON-COMPLIANCE ISSUES	39
5	EMERGENCY PROCEDURES AND CONTINGENCIES	40
5.1	GENERAL	40
5.2	FIRE	41
5.3	SPILLAGES	41
5.4	ADVERSE REACTIONS	42
5.5	STAFF SHORTAGES.....	42
5.6	ADVERSE WEATHER CONDITIONS.....	42
5.7	OPERATIONAL FAILURE.....	43
5.8	BOMB SCARE	43
6	TRAINING FOR SITE STAFF	44
6.1	TRAINING NEEDS ASSESSMENT	44
6.2	SITE RULES AND INFRASTRUCTURE TRAINING.....	44
6.3	EMERGENCY PROCEDURES TRAINING.....	45
6.4	FIRE SAFETY / FIREFIGHTING TRAINING	45
6.5	RECOGNITION OF WASTE TYPES TRAINING	45
6.6	STORAGE AREAS / LIMITS TRAINING	46
6.7	VEHICLE / PLANT PREVENTATIVE MAINTENANCE TRAINING.....	46
6.8	DUTY OF CARE TRAINING	47
6.9	PLANT OPERATION TRAINING.....	47
6.10	PERMIT / MANAGEMENT SYSTEM.....	47
6.11	TRAINING FOR CONTRACTORS.....	47

List of Tables

Table 1.1 – Hazardous & Non-Hazardous Plastic Recycling Facility	6
Table 1.2 – ELT Recycling Facility	6
Table 1.3 –Wood Recycling Facility.....	7
Table 1.4 – Waste Storage Table	9
Table 2.1 – Site office documents.....	12
Table 2.2 - Plant & Equipment.....	15
Table 3.1 – UK Agreed Conversion Factors.....	24

List of Appendices:

Appendix I - Drawings

Drawing No. VIE/2704/01 – Site Location Map

Drawing No. VIE/2704/02B – Proposed Permit Boundary Plan

Drawing No. VIE/2704/03 – Site Layout & fire Plan

Appendix II - Record Keeping Forms

NHB/RF/2 - Rejected Waste

NHB/RF/4 - Site Diary/Inspection Form

NHB/RF/5 - Employee Training Record

NHB/RF/6 - Complaints Form

NHB/RF/7 - Non-compliance reporting form

Appendix III - Copy of Issued Environmental Permit

Appendix IV - Health and Safety – Conditions of site use for staff and visitors

Site Information & Key Contacts List

Site Address:	Units 9, 10 & 11, Vauxhall Industrial Estate, Ruabon, Wrexham LL14 6HA		
Site Operator:	New Horizon Biofuel and Animal Beddings Co Ltd	National Grid Ref:	SJ 30505 45326

CONTACT	DESCRIPTION	OFFICE HOURS	OUT OF HOURS
Philip Thomas	Director / Site Manager	Email only	07730 402400
Mark Imrie	Technically Competent Manager	Email only	07958 587462
Wrexham Maelor Hospital Croesnewydd Road, Wrexham, LL13 7TD	Local NHS Hospital (Main)	01978 291100	999
	Accident & Emergency (A&E)	999	999
Gardden Road Surgery Gardden Road, Rhosllanerchrugog, Wrexham, LL14 2EN	Local Doctor Surgery (GP)	01978 801890	999 or 112
North Wales Police Former Oriel Gallery, Rhosddu Road, Wrexham, LL11 1AU	Local Police Non-Emergency	0300 330 0101	999 or 112
North Wales Fire & Rescue Service Johnstown Fire Station. Gutter Hill Johnstown LL14 1LT	Fire and Rescue Service (in Emergency Dial 999)	01745 535 250	999 or 112
Natural Resources Wales (Nearest Office) Chester Road, Buckley, CH7 3AG	Environmental Regulator	0300 065 3000	0300 065 3000
Wrexham County Borough Council 16 Lord Street, Wrexham, LL11 1LG	Planning Department	01978 298994	01978 292000
Dwr Cymru (Welsh) Water	Mains water and sewerage supplier	0800 052 0130	0800 783 4444
Oaktree Environmental Ltd - Lime House, 2 Road 2, Winsford, Cheshire CW7 3QZ	Specialist Advisor (Waste and Planning Issues)	01606 558833	07730 402400

1 General considerations

1.1 Site operator/permit information

- 1.1.1 New Horizon Biofuel and Animal Beddings Co Ltd will operate an A16a Hazardous Waste Physical Treatment Facility. The site will allow for the acceptance, storage and treatment of plastic, wood and end-of-life tyres for recovery.
- 1.1.2 Developments in legislation such as the regular increases in the Landfill Tax have increased the need for effectiveness and scope of operations at waste transfer and recycling centres, leading to greater recovery rates for recyclable waste.
- 1.1.3 This EMS will detail specific procedures for the acceptance, storage, handling and treatment of plastics, wood and ELT mechanical treatment plants which enable high quality recyclable materials complying with local, regional and national targets. New Horizon Biofuel and Animal Beddings Co Ltd prides itself on the quality of material they re-produce aim for 100% conformity so end customers can be assured of quality materials at all times. New Horizon Biofuel and Animal Beddings Co Ltd has a stringent quality process across its business structure to ensure these standards are achieved.
- 1.1.4 The site will receive waste from in-house collection operations and a number of other carriers from surrounding areas, delivering pre-selected waste from customers.
- 1.1.5 The EP will be regulated by Natural Resources Wales (NRW) under the Environmental Permitting (England & Wales) Regulations 2016.

1.2 Relevant contacts

1.2.1 Registered office details for the operator are as follows:

New Horizon Biofuel and Animal Beddings Co Ltd	Contact:	Philip Thomas
91 Solo Hill	Position:	Director
Birmingham		
United Kingdom		
B19 1AY		

1.2.2 Oaktree Environmental Ltd have been engaged to act as consultants for New Horizon Biofuel and Animal Beddings Co Ltd to assist in the preparation of this Environmental Management System (EMS). This EMS has been prepared to meet the requirements of The Environmental Permitting (England and Wales) Regulations 2016 and the Natural Resources Wales Guidance: *"how to comply with your environmental permit"*.

1.2.3 Contact details for Oaktree Environmental Ltd are as follows:

Oaktree Environmental Ltd	Contact:	Chris Parry
Lime House	Position:	Senior Consultant
2 Road Two	Tel:	01606 558833
Winsford	E-mail:	chris@oaktree-environmental.co.uk
Cheshire CW7 3QZ		

1.3 Site location

1.3.1 The site is located at Units 9, 10 & 11, Vauxhall Industrial Estate, Ruabon, Wrexham LL14 6HA as shown on Drawing Nos. VIE/2704/01 & 02. The national grid reference for the site is SJ 30505 45326

1.3.2 The site is predominantly located in an industrial area; immediately surrounding the site is numerous industrial premises. Immediately east of the site is a railway line followed by open fields and to the north east is the Enovert Hafod LFG Site.

1.4 Permit area/waste management operations

- 1.4.1 The permit boundary is outlined in green on Drawing No. VIE/2704/02B. All references to 'the site' in this EMS shall mean Units 9, 10 & 11 inside the permit boundary and associated infrastructure, plant and equipment.
- 1.4.2 The Environmental Permit is required for the storage (keeping) prior to removal, and treatment (all types of handling/processing) of waste. Waste treatment processes to be carried out on will include the following:

NON-HAZARDOUS PLASTIC RECYCLING (UNITS 9 & 11)

- Non-hazardous Plastic recycling = sorting and/or separation, compaction, baling, screening, crushing, drying, washing, shredding, granulating, baling, extruding, wrapping, agglomerating, bale breaking, bulking up for recovery

NON-HAZARDOUS WOOD RECYCLING (UNITS 9 & 11)

- Wood recycling = sorting, separation, compaction, shredding, drying, size reduction using a hammermill and baling for recovery

NON-HAZARDOUS TYRE RECYCLING (UNIT 11)

- Sorting, separation, compaction, shredding, granulating and baling recovery.

NON-HAZARDOUS PLASTIC RECYCLING (UNIT 10)

- Non-hazardous Plastic recycling = sorting and/or separation and storage/bulking

- 1.4.3 Unit 11 will also comprise 6 no. biomass boilers, each boiler will have a rated thermal input (MWth) of 240kw meaning each appliance falls below the medium combustion plant directive. All 6 no. proposed biomass boilers will be powered by non-waste virgin timber (fuel) to provide heat to the drying locations to the east of the yard for the wood recycling operations and to the west of the of the building at Unit 11 to heat the water for the plastic wash and extrusion lines situated inside the building of Unit 11. These activities do not require authorisation from NRW as no waste wood is being used in connection with biomass units.
- 1.4.4 In terms of the proposed wood recycling operation for Unit 11, there are two separate walk-in floor locations, one no. walk-in floor container which will be used to dry source segregated pre-shredded wood, which has been further shredded on site to a smaller specification, this wood will only arise from the EWC codes shown in Table 1.3; the other walk-in floor comprises a number of external bays which will dry non-waste wood i.e. virgin timber.
- 1.4.5 Specified waste management operations include waste disposal and waste recovery operations listed Annex I and II of The Waste Framework Directive 2008/98/EC and are listed in summary below:
- R3: Recycling/reclamation of organic substances which are not used as solvents
 - R4: Recycling/reclamation of metals and metal compounds
 - R5: Recycling or reclamation of other inorganic materials
 - R12: Exchange of waste
 - D14: Repackaging prior to submission to any of the operations numbered D01 to D13
 - D15: Storage pending any of the operations numbered D01 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)

1.5 Hours of operation

- 1.5.1 All internal areas of the site will operate on a 24/7 basis with approximately two days per month being shutdown to carry out a full housekeeping. The site will operate 07:00 - 19:00 then 19:00 – 07:00 in two separate shift patterns.
- 1.5.2 External activities comprising the mechanical treatment of waste will only operate between the hours 07:00 – 19:00 Monday – Sunday.
- 1.5.3 In the event that the site is closed or not in operation for any reason, the gates will be locked and secured to prevent unauthorised vehicular and/or pedestrian access and a 24-hour security presence will be maintained to monitor waste and product stocks.

1.6 Waste types and quantities

- 1.6.1 The waste types handled on site will consist of hazardous and non-hazardous household, commercial and waste arising's as defined in the Controlled Waste (England and Wales) Regulations 2012 and Section 75 of the Environmental Protection Act 1990. Although the permit allows a wide range of wastes to be accepted the majority of inputs will consist of High Density Poly Ethylene (HDPE) plastic in baled form and also as IBC containers and other bulk containers.
- 1.6.2 A detailed breakdown of the waste types accepted at the site will be included in Appendix III of this EMS as part of the EP. No dusty, clinical or sludge wastes will be accepted at the site. Any liquid waste accepted will be minor constituents left in a container. The waste codes to be accepted are detailed in the tables overleaf. Hazardous waste is highlighted in red.

Table 1.1 – Hazardous & Non-Hazardous Plastic Recycling Facility

Permitted waste types and quantities for transfer and treatment	
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 04	waste plastics
07	Wastes from organic chemical processes
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	waste plastic
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging
15 01 10*	packaging containing residues of or contaminated by hazardous substances
17	Construction and demolition wastes (including excavated soil From contaminated sites)
17 02	wood, glass and plastic
17 02 03	plastic
17 02 04*	plastic containing or contaminated with dangerous substances
19	Wastes from waste management facilities, off-site waste water treatment plants and preparation of water intended For human consumption/industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising)
19 12 04	plastic and rubber (baled plastic)

Table 1.2 – ELT Recycling Facility

Permitted waste types and quantities for transfer and treatment	
16	Wastes not otherwise specified in the list
16 01	end-of-life vehicles from different means of transport (including off-road machinery)
16 01 03	end-of-life tyres

Table 1.3 –Wood Recycling Facility

Permitted waste types and quantities for transfer and treatment	
03	Wastes from wood processing and the production of panels and Furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and cork
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 03	wooden packaging
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 07	Shredded wood arising from untreated 03 01 01, 03 03 01 and 15 01 03 only - add

1.6.3 The site will be accepting <173,650 tonnes per annum which is broken down into the following:

- i) <120,000 tonnes per annum of non-hazardous plastic waste;
- ii) <3,650 tonnes per annum of hazardous plastic waste;
- iii) <25,000 tonnes per annum of wood waste; and
- iv) <25,000 tonnes per annum of end-of-life tyres (ELTs)

1.6.4 Prior to and following collection of any hazardous waste, the site chemist, located in the site office, will review the collection request and then assess the proposed collection for compliance with material safety data sheet requirements, hazardous waste regulations and the Duty of Care. Customers will be encouraged to return containers which have been washed to remove residues. The location of hazardous waste storage at the site is shown on Drawing No. VIE/2704/03.

- 1.6.5 In terms of plastic containers being accepted, they will normally arrive on a wooden pallet so once the plastics have been removed from the pallet, the pallet is likely to be processed on site providing feedstock for the boiler or pelleting plant as mentioned in Section 1.4.3.
- 1.6.6 The storage volumes are shown in cubic metres for the purpose of complying with the Fire Prevention and Mitigation Plan guidance as shown on Drawing No. VIE/2704/03 and in the table overleaf. If the maximum storage capacity of the site is reached, then no further waste will be accepted until waste can be removed and taken to a suitably permitted or exempt site.

Table 1.4 – Waste Storage Table

Storage Area Details (PILE BASED ON AREA X H NOT L X W X H)											
Plan Ref	Description	Storage type	Containment / type	Height of firewall (m)	Max width (m)	Max length (m)	Max height (m)	Max area (m)	Conversion factor used	Max volume (m3)	Max storage time
AREAS A - D	Waste water wash residue storage	<1,000 sealed IBC containers	N/A	N/A	5	1	1	5	1	5	<1 week
AREA E	Enclosed walk-in floor for drying shredded non-hazardous untreated waste wood	Sealed walk-in floor container	Walk-in floor container	3.2	20	4	2	80	1	160	<1 hour
AREA 1 - 3	Holding bays for non-hazardous hard plastic (containers) - acting as mainly overflow storage from Unit 11	Unprocessed plastic containers, bales and packaging	As above	3.2	9	9	2.2	81	1	178	<8 weeks
AREA 4	As above	Unprocessed plastic containers/drums	As above	3.2	20	5.4	2.2	108	1	238	<8 weeks
AREA 5	Holding bays for hazardous hard plastic	Unprocessed plastic containers/drums	As above	3.2	20	5.4	2.2	108	1	238	<4 weeks
AREA 6	Shredded untreated and non-hazardous wood	Processed / shredded	Free-standing Interlocking block fire wall	4	7.4	10	3	74	0.75	167	<4 weeks
AREAS 7 & 8	Reception and storage area for non-hazardous PET & HD plastic storage or whole end-of-life tyres	Unprocessed / sorted	Free-standing Interlocking block fire wall	4	7.4	8.5	3	62.9	0.75	142	<4 weeks
AREA 9	Whole end-of-life tyres	Unprocessed	Free-standing Interlocking block fire wall	4	7.4	8.5	3	62.9	1	189	<1 week
AREA 10	Scrap metal	Sorted via overband magnet	8-cubic yard skip	N/A	1.68	3.66	1.2	6.1488	1	7	<1 week
AREA 11	Shredded end-of-life tyres or plastic	Processed / shredded	Bagged	3.2	1.2	1.2	1.2	1.2	1	1	1 - 2 hours
AREA 12	Shredded end-of-life tyres or plastic (non-waste)	Processed / shredded & bagged	Free-standing Interlocking block fire wall	4	2.4	5	2	40	1	80	<48 hours
AREAS 13 - 15	Reception and storage areas for non-hazardous PET & HD plastic storage	Unprocessed plastic containers, bales and packaging	As above	4	7.4	8.5	3	62.9	1	189	<4 weeks
AREAS 16 - 17	Overflow storage areas for non-hazardous PET & HD plastic storage	Unprocessed plastic containers, bales and packaging	As above	4	7.4	8.5	3	62.9	1	189	<4 weeks
AREAS 18 - 19	Granulated plastic agglomerate plastic prior to final wash in Unit 9	Processed / shredded	40-foot sealed container	N/A	12	2.5	2.62	30	1	79	<4 weeks

1.7 Staffing and management

- 1.7.1 The site will require up to 10 staff to be fully operational meaning at least five members of staff available for each shift which does not include the two directors and TCM who will be present occasionally but will manage the site remotely.
- 1.7.2 All operational staff and contractors must be aware and understand the contents of the Environmental Management System (EMS) and its location in order to respond and action the proposals set out in this EMS.

1.8 Health and safety

- 1.8.1 All operations on site will be carried out in accordance with the relevant requirements of the Health and Safety at Work Act 1974. Conditions of site use for employees, visitors and contractors are shown in Appendix IV. These conditions will be shown to all site users and must be signed prior to using the site. Anyone refusing to comply with the conditions of use will be asked to leave the site.

1.9 Fit and proper persons

- 1.9.1 The site's Technically Competent Manager (TCM) will be Mark Imrie who will provide the required attendance time at the facility as required by guidance periodically issued by the NRW. On average, this will be 20% (1.5 days) of the working week. A copy of TCM's Certificate of Technical Competence (COTC) will always be made available in the site office.
- 1.9.2 The company, through the TCM, will ensure that a nominated deputy is sufficiently trained and familiar with the EP and this EMS document in addition to all relevant company procedures who, in the absence of the TCM, will act the competent person. If either the TCM or deputy is changed, the NRW will be informed of the change and the relevant details of the replacement as soon as possible.

2 Site engineering and infrastructure

2.1 Site description

- 2.1.1 **UNIT 9:** - Comprises a building measuring approximately 1,700m², approximately 45m² of this is dedicated for offices, staff training and welfare. The remaining part of the building is made up of the plastics wash plant, wood baling plant, wood pelleting plant and Biomass Boiler. There are five roller shutter access points to the east of the building for deliveries/removals of waste material. As mentioned in Section 1.4.3, the biomass and pelleting plant for wood will not form part of this management system as they are regulated by the Local Planning Authority.
- 2.1.2 The external areas of the site will be used for storing material prior to loading into the items of plant internally and product storage which will be in the 6 no. shipping containers to the north of the site near the site access. Although the plastic wash plant can shred the waste as part of the line, an external shredder may be used on occasions to treat waste prior to being fed; this would be done to reduce any backlogs in the event of a breakdown.
- 2.1.3 **UNIT 10:** - Comprises a building which will be used as a workshop and the external area of the site will be used for acceptance, storage of hazardous and non-hazardous plastic waste in the form of IBC containers.
- 2.1.4 **UNIT 11:** Comprises a building measuring approximately 3,575.44²; 2,915m² of which will be used for the mechanical recycling of plastic waste and storage of recycled (non-waste) plastic, wood and tyres awaiting despatch. Remaining areas of the building are used as offices, welfare and training. The offices are located on a second storey and not in operational areas of the Unit. The external area of Unit 11 will be used for acceptance and storage of plastic, tyres and wood (waste and non-waste).

2.2 Access and parking

- 2.2.1 The site is accessed from the north of the site via a private road leading off the Vauxhall Industrial Estate. The site has dedicated staff and visitor car parks off site (outside of the permit boundary).

2.3 Site office

- 2.3.1 The site office is shown on Drawing No. VIE/2704/03 and the list below details the relevant site documentation which will be kept in the site office. Each Unit has a separate office where the below information will be kept.

Table 2.1 – Site office documents

Documents to be retained in site office
The Environmental Permit (original & any subsequent variations) This Environmental Management System (NRW agreed document) Fire Prevention & Mitigation Plan (NRW agreed document) Current site diary (to record all inspections/visitors to the site) Natural Resources Wales inspection (CAR) forms In-house inspection sheets/recording forms MSDSs Duty of care transfer notes (for 2 years minimum) Hazardous waste consignment notes (rejected waste, etc., kept for 3 years) Waste delivery tickets Accident book (& 1st aid kit)

2.4 Weighbridge

- 2.4.1 There is a weighbridge at the site for accurately weighing incoming and outgoing loads. The weight of each load into and out of the site will also be estimated using the standard NRW/WRAP agreed volume-to-weight conversion factors. No wheel wash is proposed given the site surfacing and waste types the site will handle.

2.5 Notice board and signs

2.5.1 A notice board will be erected at the site entrance of both sites displaying the following information:

- The site name and address.
- The name of the permit holder and operator.
- The Environmental Permit number and accompanying statement stating that the site is permitted by the NRW.
- NRW contact details, Emergency No. 0300 065 3000 and
- General Enquires No. 0300 065 3000.
- Operator's "out of hours" emergency contact details (telephone number).
- Operating hours.

2.5.2 Additional signs will be displayed around the site for operational / health & safety purposes. All staff and visitors will be required to comply with the requirements of all signs whilst on site.

2.6 Site security

2.6.1 The site's security measures are shown on Drawing No. VIE/2704/03 and considered suitable to prevent unauthorised vehicular or pedestrian access. It must be noted that operations in the building will be taking place 24/7 so there will always been staff present to prevent any risk of arson occurring.

2.6.2 The site benefits from 24-hour intruder alert security with remotely accessible CCTV fitted with full site coverage and off-site supervision.

2.6.3 The site security measures will be inspected on a daily basis and any defects which impair the effectiveness of the security will be repaired as soon as practicable. If this is not possible, temporary measures will be put in place to ensure no unauthorised access to the site can be gained until the proper repairs can be carried out.

- 2.6.4 If unauthorised access becomes apparent as a problem at the site, the security measures will be reviewed, and improvements implemented.

2.7 Non-waste fuel and other hazardous storage

- 2.7.1 The location of the above areas are shown on Drawing No. VIE/2704/03 and are located in a separately bunded area to the rear of the gatehouse in Unit 11. Any gas bottles or cylinders received will be stored in cages to comply with Health & Safety Regulations. In terms of storing hazardous substances, the following procedures apply on site:

- Tanks are surrounded by a bund capable of containing a minimum of 110% of the volume of fuel stored in the tank.
- All pipework and associated infrastructure will be enclosed within the bund.
- A lock will be fitted to the tank valve to prevent unauthorised operation.
- All valves and gauges on the bund will be constructed to prevent damage caused by frost.
- The tank is stored 6m away from any waste processing equipment.
- The tanks are clearly marked showing the product within and its capacity.

2.8 Drainage

- 2.8.1 The site drainage is shown on Drawing No. VIE/2704/03 and in summary:
- The building in Unit 9 which houses the treatment plants is surfaced with concrete and any water escape points are sealed using a small lip i.e. to contain any spillages
 - The areas storing waste in Units 10 and 11 are separately sealed and benefit from an impermeable concrete and hardstanding surface which drain into separate underground storage tanks.
 - In terms of Unit 11, the western part of the site benefits from an existing drainage system which connects to the surface water sewer system. It is proposed to retain this system but also treat all water via a NSFA270 full retention interceptor with alarm and shut off valve. The eastern section of the site comprises newly concreted areas which

will drain into separate underground tank which are alarmed and emptied when at 80% capacity.

- Clean water from roofs or from areas of the site which do not store and treat waste connect to an existing surface water drainage system via silt traps, catchment pits and interceptors.
- Any foul water connections i.e. from toilets or welfare will directly discharge into the existing foul sewer system.

2.8.2 Operational staff will undertake continuous checks of the drainage throughout the working day and in the event of surface water pooling, the operator will contact a reputable drainage contractor as soon as practicable to inspect and clear the drains as necessary.

2.8.3 The inspections of underground storage tanks will take place weekly or in the event of continuous rain for 24 – 72 hours, then daily. Once tanks reach 80% capacity, the tanker company is called to collect the effluent.

2.9 Vehicles, plant and equipment

2.9.1 Waste will be handled using mobile plant listed in the table below. Additional plant will be hired to cover any very busy periods. Only trained operators will be permitted to drive/operate the plant listed below. Any changes to the list will be notified to the NRW prior to implementation.

Table 2.2 - Plant & Equipment

Item	Number	Function
Fork lift	2	Loading/unloading/movement/sorting
Telehandler	3	Importing / exporting material
360 ⁰ excavators	3	Importing / exporting / loading material
Road sweeper	1	Site sweeping/housekeeping
Mobile Tana Shredder	4	Pre-shred of plastic and wood waste prior to further treatment

2.9.2 Fixed plant has not been included but is shown on Drawing No. VIE/2704/03 and further detailed in Section 3 of this EMS.

- 2.9.3 The plant/equipment on site will vary depending on the amount of waste accepted at the site.

2.10 Mobile and fixed plant maintenance

- 2.10.1 All items of plant and equipment listed in Section 2.9 above (and any additional items of plant which may be hired in to cover busier periods) are subject to preventative maintenance checks to ensure their safe operation and to prevent any potential situations which may give rise to faults or malfunction. A Preventative Maintenance Checklist is shown in Appendix II of this EMS which can be referenced by the operator.
- 2.10.2 All mobile and fixed plant on site including vehicles in the fleet are subject to annual manufacturer maintenance to ensure proper working order in the form of service contracts.
- 2.10.3 Separation distances of 6m will be observed between plant and stored material when the site is not staffed.
- 2.10.4 **Out-of-hours** – this will comprise a 30-minute interval before the start of each shift pattern and the two days per month full shutdown. Further shutdowns will be enforced in the event of an emergency situation i.e. third party complaints or plant breakdowns.
- 2.10.5 Within the 30 minutes shift pattern change there is ample time to inspect the equipment for any dust/fluff which will be removed using hoses or brushes and deposited into a mobile refuse/trade waste bin (emptied weekly). Plant which is not in use for any extended period and in any event at the end of the working day will be stored at least 6 metres from combustible wastes in the area shown on Drawing No. VIE/2704/03.
- 2.10.6 The locations of processing plant including routing and out-of-hours for mobile plant are clearly shown on Drawing No. VIE/2704/03.
- 2.10.7 All mobile plant and equipment will be fitted with fire extinguishers in the cab.

- 2.10.8 Fuels and combustible liquids from site vehicles will be checked prior to commencement of operations then ongoing throughout the day ensuring each vehicle has undergone the relevant inspection for the presence of leakages.

3 Site operations

3.1 Preliminary procedures

- 3.1.1 Customers will return used plastic containers in accordance with the requirements of the Environmental Protection (Duty of Care) Regulations 1991 [as amended] and/or The Hazardous Waste (England and Wales) Regulations 2005 and Sector Guidance Note S5.06: recovery and disposal of hazardous and non-hazardous waste. All loads must be pre-booked for collection to ensure that they comply with the requirements of the EP.
- 3.1.2 Guidance will be given by the site management to all employees, sub-contractors, other waste carriers and customers regarding the waste types and operations which are acceptable at the site i.e. a copy of Appendix III of this document. The site will be used for the waste collection by New Horizon Biofuel and Animal Beddings Co Ltd's own operations and for waste from third-party users, whose details will be checked prior to delivery of waste to the site. The procedures below are followed prior to the receipt of waste on site.
- 3.1.3 Where waste is brought in under sub-contract or delivered by other hauliers then the carrier registration details will be taken for all new haulage operators bringing waste to the site and the details will be periodically (every 12 months) checked with NRW to ensure that they are still registered. The procedures below are followed prior to the receipt of waste on site.
- 3.1.4 All drivers employed by or on behalf of New Horizon Biofuel and Animal Beddings Co Ltd will be trained to comply with the relevant health and safety regulations with respect to carriage of dangerous goods and receive additional training from New Horizon Biofuel and Animal Beddings Co Ltd regarding compliance and waste acceptance procedures.
- 3.1.5 When a driver arrives at the customers site to pick up a consignment of plastic containers, he/she will inspect the load of containers for conformity with relevant transport regulations,

and safety procedures. This will also consist of a visual inspection to check that the container has been used to store the product stated on the material safety data sheet supplied to New Horizon Biofuel and Animal Beddings Co Ltd. The condition of the container must be acceptable i.e. no visible damage which could cause a leak.

- i) If the load of containers is satisfactory the driver will sign the relevant paperwork and remove the load from the customer's premises. The details of the load will have already been notified to New Horizon Biofuel and Animal Beddings Co Ltd as part of their collection system.
- ii) If the waste does not meet the description stated on the ticket or waste transfer note (WTN) or hazardous waste consignment note (HWCN) the customer will be advised that the load or part of the load cannot be collected. In the case of any hazardous waste any amendment may need approval from NRW before the load can be moved i.e. a reduction in the number containers stated on the HWCN.
- iii) Once the decision has been made not to collect non-conforming IBCs the customer will have to arrange for a separate collection for disposal or recovery at their own cost.
- iv) The driver may also report back to the site manager/COTC holder for instructions, especially where it is suspected that the details given on the transfer note are incorrect.

3.1.6 Whilst it is the duty of the waste producers to correctly identify and describe their waste, New Horizon Biofuel and Animal Beddings Co Ltd site management, site chemist and COTC holders will assist them wherever necessary to reduce the risk of rejection of a container will assist them wherever necessary to reduce the risk of rejection of containers.

3.1.7 As the waste will be recycled into a non-waste product, site management i.e. the TCM, site manager or operations manager will have significant responsibilities in respect of incoming material as their role is to select material of the best quality.

3.1.8 Materials are subject to pre-collection inspection by site management. Only our experienced buyers/sellers are authorized to approve quality and any uncertainties are discussed with the senior management team.

- 3.1.9 Site management will ensure that a purchase order is raised detailing the grades and quantities of material that is being acquired.
- 3.1.10 If the material is rejected under quality or contamination grounds this will be reported via email detailing the full facts to the senior management team. Photographic evidence will be taken in all instances of material rejection.
- 3.1.11 Site management will conduct periodic material audits on their suppliers to ensure quality standards are adhered too and on materials arriving at the site to ensure quality standards are adhered too.

3.2 Checking in & inspection of loads (containers)

- 3.2.1 Drivers of all vehicles bringing hazardous waste into the site will be directed to unloading area Unit 10 shown on Drawing No. VIE/2704/03 to await checking and unloading and to report to the person responsible for checking and supervising acceptance of the load. Once the load has been accepted, if rendered hazardous by the chemist, the waste will be stored in **AREA 5** where it will await removal off site. If **AREA 5** is full, they will be directed to one of the storage areas situated at Unit 10 or to the operator's site in Flint.
- i) The tickets, WTNs and HWCNs relevant to the load are checked before the load is removed to ensure compliance with the booking procedure.
 - ii) The details of the load will be recorded, and the accompanying paperwork will be further checked by the supervisor/operator to ensure that the load is acceptable at the recycling centre. Any deviation from the reception procedures or other problems with any loads will be reported to the site manager.
 - iii) Once a load has been accepted by the supervisor/operator the driver will be asked to un-sheet the vehicle (if it is sheeted) and a visual inspection of the contents of each container will be carried out to ensure that the waste types comply with the EP.

- iv) During the commissioning phase of site operations this will also involve the input of a qualified industrial chemist (with waste treatment experience) who will inspect incoming loads and ensure that they are as stated on the WTN OR HWCN, that the material safety data sheet has been supplied with the containers (or previously if it is a repeated delivery) and that the containers are stored in batches in the building. Storage in batches permits batch processing and is the safest and most efficient way to process the containers.

3.2.2 If the load is acceptable the containers will be unloaded using a forklift truck and deposited in **AREAS 1 – 4** if non-hazardous and **AREA 5** if hazardous. Containers will be segregated as they are unloaded to ensure that potentially incompatible wastes are stored separately and that the containers are stored together to batch them for rebuilding.

3.2.3 As delivery vehicles are unloaded the containers will be checked to ensure that they are residue free as required or where they contain some residues that the documentation correctly identifies those residues.

3.2.4 The containers will be stored wherever possible to ensure that they can be batch processed for safety and efficiency reasons. To ensure the site does not mix and containers suitable for processing with those which cannot be, the chemist and/or site management will train staff to ensure wastes containing residues displaying the following hazard properties or hazard statements will not be treated at the site.

- Water reactive including H261, EUH014, EUH029
- HP2 oxidising including H270, H271 and H272]
- HP10 toxic for reproduction
- Heating may cause a fire H242
- Fatal if swallowed H300
- May be fatal if swallowed enters airways: H304
- Fatal in contact with skin H310
- Toxic if inhaled: H331
- Very Toxic to aquatic life: H400

- Very Toxic to aquatic life with long lasting effects: H410
- Flammable solid: H228
- Toxic by eye contact: EUH070
- Respiratory sensitising: H334

3.2.5 The above in summary comprise the following:

- i) General non-hazardous chemicals
- ii) Adhesives, glues and resins
- iii) Food products/ingredients
- iv) Paints, dyes, inks and pigments
- v) Petrochemicals
- vi) Biocides
- vii) Isocyanates
- viii) Hazardous chemicals (further separated according to risk)

3.2.6 Such segregation will be organised by the site chemist, who will give guidance to other site staff on the safe storage of containers. In summary, the batch segregation will be subject to veto by the site chemist if he/she considers that the wastes are potentially reactive.

3.2.7 A material safety data sheets (MSDS) will be retained for all containers to ensure that sufficient information is available to correctly handle the materials contained within the containers. These will be kept in the site office and available for inspection by regulators or other third parties.

3.2.8 The site chemist will also take samples (in a clear glass container) from any loads at random to ensure that the materials in the IBCs match the description on the ticket. Simple field tests will be used i.e.

- i) Visual appearance - colour, suspended solids, viscosity
- ii) pH (portable meter)
- iii) conductivity (portable meter)
- iv) Temperature (portable meter)
- v) Odour (where permissible - for safety reasons)

3.2.9 Other parameters may be agreed with NRW and samples may be subjected to a more detailed analysis if there is reasonable suspicion that the contents of the containers do not match the description on the WTN or HWCN. This would only be done in instances when there are contents in the container, the frequency of this could therefore vary. It is important to note that if the containers are not drip dry then sampling will only take place to facilitate removal off site, even if the product contained within the container does not present a hazard to the site's operations. The sample would be obtained by the TCM or site manager following advice and guidance from the chemist, this would involve collecting the sample in glass jar/tube and sending it off to a suitably accredited lab. This course of action is required to ensure a high standard of operation. The results of the sample analysis will be reviewed by the chemist and stored in the site office. The site chemist will provide advice on whether or not the residue can be washed and processed or returned back to the producer. If the load cannot be processed, it will be quarantined in accordance with section 3.4.

3.2.10 Once IBCs have been accepted and stored, they will be treated in accordance with the section below.

3.3 Checking in & inspection of loads (general)

3.3.1 All incoming vehicles are required to site management who will instruct the driver to waste reception area in the external yard. The details of the load will be recorded, and the Duty of

Care transfer note and company documentation will be further checked by the operator to ensure that the load is acceptable at the site. Any deviation from these procedures or problems with any loads will be reported to the site manager.

- 3.3.2 Once a load has been accepted by the operator, the driver will be asked to unsheet the vehicle (if it is sheeted) and a visual inspection of the contents will be carried out to ensure that the waste types comply with the EP. The amount of waste in the vehicle makes full inspection difficult until the load is deposited. If rejected waste is discovered before deposit, the load will remain on the delivery vehicle and will be returned to the producer if possible or disposed of at an approved facility.
- 3.3.3 In cases where the presence of unauthorised waste is likely to lead to a breach of permit conditions, the NRW will be contacted immediately to agree a course of action.

3.4 Rejected / quarantined waste

- 3.4.1 The nature of the waste makes full inspection difficult until the containers are unloaded. If non-conforming waste is discovered before the delivery vehicle has left the premises (i.e. in the unloading area) the containers will be rejected and reloaded for return to the producer. This is likely to comprise heavily contaminated plastic containers or unauthorised waste i.e. waste not listed on the permit found in loads following tipping.
- 3.4.2 A skip or rejected container will be made available in extenuating circumstances, for examples, if non-conformities from the load cannot be sent back immediately and quarantined for a maximum of 24 hours prior to being taken off site for disposal or recovery to another permitted site. The skip/container would be stored on an impermeable concrete surface with sealed drainage and if potentially odorous or dusty, inside the Units 9 or 11. The location may be varied as operating conditions permit (i.e. to permit the loading of rejected wastes) but clear labelling and management control will ensure its use as specified.

3.5 Weighing and categorising loads

- 3.5.1 The weight of each load into and out of the site will be calculated using the weighbridge or standard NRW and WRAP agreed volume-to-weight conversion factors. Based on the waste types the site can accept, these would be as follows:

Table 3.1 – UK Agreed Conversion Factors

EWC CODE	DESCRIPTION	DENSITY CONVERSION FACTOR
02 01 04	waste plastics	0.5028
07 02 13	waste plastic	0.14
15 01 02	plastic packaging	0.22
15 01 10*	packaging containing residues of or contaminated by hazardous substances	0.21
17 02 03	plastic	0.25
17 02 04*	plastic containing or contaminated with dangerous substances	0.29
19 12 04	plastic and rubber (baled plastic)	0.2776
16 01 03	end-of-life tyres	0.4657 (1 tyre = 7kg – 12kg)
03 01 01	waste bark and cork	0.17
03 03 01	waste bark and cork	0.17
15 01 03	wooden packaging	0.11
19 12 07	Shredded wood (arising from EWC codes above)	0.17

3.6 Waste treatment

- 3.6.1 The layout of the waste treatment processes on site are shown on Drawing No. VIE/2704/03. A summary of the process is presented overleaf:

PLASTIC RECYCLING

- **Waste Reception** – Once accepted, waste will be brought onto site and directed to the reception bays (**AREA 1 – 4, 7, 8 and 13 – 17**. All areas will be used to carry out a full check by the site chemist and/or site management on the waste received to demonstrate:

- i) Whether the waste is non-hazardous or hazardous
 - ii) Whether the waste is suitable for treatment
- In terms of plastic drums/containers, any found to be hazardous would be segregated (following an assessment by the site chemist) and stored in **AREA 5** so the operator can adhere to maximum treatment/storage capacities for non-hazardous and hazardous wastes. The plastic in this area would then be removed off site and washed at the operator's facility in Flint.
- Once containers have passed the chemists inspection and deemed non-hazardous containers following review by the site chemist will be transferred to various pre-treatment holding bays **AREAS 7, 8 and 13 – 17** to await treatment into the internal wash plants.
- Other types of plastic will be accepted in the above reception areas comprising PET plastic.
- The areas may also contain non-hazardous plastic bales and other non-hazardous plastic containers prior to being treated in the wash plant.
- The non-hazardous plastic will then be shredded using the first shredder of the tyre recycling plant as a single process and stored in **AREAS 13 – 17** prior to being loaded into the internal wash and agglomeration plant.
- PET plastic will be treated inside Unit 11 which will comprise a hot wash prior to further treatment shown in Section 1.4.2. Once the PET plastic has been treated, it will be deposited into containers shown as sold as plastic flake product.
- The final wash in Unit 9 comprises the following:
 - iii) **Pre-wash** – The fed into a covered incline conveyor inside the Unit where it will undergo a pre-wash.
 - iv) **Sink float separation** – The material is fed by conveyor into a sink/float separation process to separate the light from heavy plastic.
 - v) **Friction cleaner/dehydrator** – The material will be transferred to the friction cleaning device which will clean and reduce the moisture content of the plastics by dehydrating it.

- vi) **Second sink float separation** – Material will then be fed into a second sink float separation process which will remove any non-conforming or residual waste such as labels and other packaging from the plastics.
- vii) **Bagging** - The product at the end of the line will then be bagged, weighed and labelled for despatch. The materials will be held on site until a sample and analysis of the material is taken and completed and removed off site as product.
- The PET and HD product are stored in Unit 11 to await export from site as a non-waste.

3.6.2 Approximately every 6 weeks, the wash plants and water filtration system will be completely cleaned and emptied then new water will be pumped back into the system. All effluent arising from the wash plants are stored in sealed IBCs inside the Units. The tanks are removed daily or weekly (depending on their operational time) and replenished with new IBCs.

WOOD RECYCLING

- All waste wood would be accepted in pre-shred form. The shredded wood would be untreated and non-hazardous waste wood which has arisen from clean wooden packaging (pallets) or offcuts bark, cork and arising from a 03 EWC source. The site selects the source and accepts all wood in their own loads which reduces the risk of any treated wood or wood not suitable for biomass or animal bedding being accepted. The accepted wood is deemed compliant in order to suitably qualify for end-of-waste for the end-users shown in Section 4.3 of the PAS111 protocol comprising biomass energy generation (4.3.2) and animal bedding (4.3.3).
- The pre-shred wood will arrive in bulked loads and shredded down to a further size suitable for drying on arrival. The shredded wood would then be stored in will be accepted in **AREA 6** for temporary storage prior to being dried and processed in Unit 9 for either biomass or horse bedding.
- The site will also store non-waste virgin timber in surrounding bays, this wood would also be dried and act as fuel to power the biomass boilers on site.

- The shredded wood from **AREA 6** will be transferred to the drying floor to the north of the operation (**AREA E**), which comprises an enclosed walk-in floor which is fed from the west. The wood is stored inside this walk-in floor for a maximum of 30 minutes, an internal conveyor is then activated which transfers the wood directly into Unit 9 to undergo the baling procedure (see below). Once the wood has been removed from the walk-in floor, a new batch of wood will be inserted. No wood will be stored in the walk-in-floor out-of-hours.
- There are also a number of other walk-in floor external bays to the south of the wood recycling operation. These bays will only be used for drying non-waste virgin timber. This timber is then transferred to Unit 9 where it is used for the boiler or bagged as woodchip which is sold in the horticultural industry.
- The wood baling plant comprises a dust extraction system, drier, hammermill and magnets. The hammermill will reduce the <50mm shredded wood to <5mm, the magnets and driers removes any non-conformities from the wood turning into a product.
- It is considered once all of the wood has undergone this process, it will meet the PAS111 accreditation and therefore meet of end-of-waste.
- The wood bale product is then transferred to Unit 11 to await export as a product.

3.6.3 The two shredders which process different wood types will not run simultaneously and will be operated depending on demand for the product.

3.6.4 The Biomass Boiler and Pelleting Plan in Unit 9 will not run simultaneously and will be operated depending on demand for the product.

TYRE RECYCLING

- ELTs will be accepted in **AREA 9** where they will undergo a visual inspection. Any non-confirming waste will be stored in a rejected waste container and removed from the site.
- The tyres are then manually fed into the hopper of the tyre treatment plant. The hopper feeds a conveyor then into a double shaft shredder which reduces the tyre size into

<100mm rubber. Anything above 100mm will feed back onto the secondary conveyor and re-shredded so it is below <100mm.

- The <100mm tyre shred then feeds a conveyor and undergoes a final shred in the rasper shredder which reduces it into a <50mm tyre shred.
- Following the shredding processes, an overband magnet to removes the tyre wire and deposits it into a container below (**AREA 10**).
- The tyre shred should now be <50mm certified PAS 107 tyre derived rubber and will fall into **AREA 11**. The material from **AREA 11** undergoes a final inspection and is then bagged and transferred to **AREA 12**. The tyre shred is then transferred to Unit 11 to await export as a non-waste.
- In the event plastic is used to in tyre shredding plant, this will be done during a separate process where no tyres are situated and stored in **AREA 12**. The plastic does not require to use the rasper shredder, only for size reduction to feed the PET processing building. The outfeed for the plastic will comprise **AREA 11** which will be taken to **AREA 12** or directly to the PET processing building. The site would not store shredded plastic or tyres inside the Unit.

3.7 Waste storage (hazardous plastic)

- 3.7.1 There will be a dedicated area of the site enabling the above storage procedure as shown on Drawing No. VIE/2704/03. Following acceptance of hazardous plastic waste into the site, it will be stored in **AREA 5** prior to being removed to the operator's site in Flint.
- 3.7.2 Some IBCs may have steel cages attached; these will be manually removed.
- 3.7.3 To ensure that the IED threshold for the storage of hazardous waste (50 tonnes) and the maximum treatment per day (10 tonnes) is not exceeded, the site use the following interpretations:
- On average, an empty IBC container will weigh 65kg (0.065 tonne), there may be minor residues present but are unlikely to add any significant weight to the overall container.

- 50 tonnes equates to 50,000kg which means the site is able to store a maximum of 833 containers on site and accept/treat no more 150containers per day.
- Prior to accepting a load of containers, the number of containers are provided within waste transfer notes so site staff can ensure that the above thresholds are not exceeded.
- The separated bunded area for IBC containers measures 10m x 12m (120m²) so this would mean a maximum of 120 containers (7,800kg/ 7.8 tonne) would be stored at any one time which is approximately a quarter of the maximum permitted storage.
- The site is not able to process more than what is stored meaning a maximum of 120 containers equating to (7,800kg/ 7.8 tonne) could be treated per day.
- It must also be noted that the IBCs will have the steel cage removed and this will add approximately 25kg to the load so the overall figure is likely to be much lower than this.

3.8 Waste removal & export

- 3.8.1 Rejected waste procedures are discussed in Section 3.4.
- 3.8.2 When a collection vehicle arrives at the site the driver will be instructed to report to the site supervisor. All relevant documentation will be completed and the vehicle will be passed to pick up the load and take it to the designated recycler/disposal site.
- 3.8.3 It is proposed that over 95% of the waste accepted on site will be recycled into a saleable product with only a small proportion of waste being disposed of. This would include wash water residue which would be removed by tanker to a permitted site, scrap metal removed to scrap metal facility and residual waste generated from treatment which would also be sent to suitably permitted site.

3.9 Sampling and analysis

- 3.9.1 Incoming wastes may be randomly sampled and submitted for analysis at the discretion of the site manager or chemist to verify the composition of a load. This would only be for containers which could contain hazardous substances.

3.9.2 Analysis of samples (water/effluent/waste) will be carried out by an accredited laboratory.

3.10 Record keeping

3.10.1 The details below shall be recorded on all waste transfer notes, internal invoices, alternative documentation for all incoming and outgoing loads in line with the Waste Duty of Care: Code of Practice:

- a written description of the which has been agreed and signed by the operator and the next holder. The description is part of the waste information the operator will provide.
- a statement confirming that you have fulfilled your duty to apply the waste hierarchy as required by regulation 12 of the Waste (England and Wales) Regulations 2011 (see Waste Hierarchy Guidance for England and Wales)
- the description of the waste is accurate and contains all the information you are reasonably in a position to provide to ensure the lawful and safe handling, transport, treatment, recovery or disposal by subsequent holders, including classification of the waste by using the appropriate codes (referred to as the List of Wastes (LoW) or European Waste Catalogue (EWC)) - Appendix A of the Waste Classification Technical Guidance provides a list of the codes as well as advice on how to assess and classify waste.
- the quantity and nature and whether it is loose or in a container, if in a container, the type of container
- the time and place of transfer
- the SIC code of the transferor (current holder of the waste)
- the name and address of the transferor and transferee (person receiving the waste) and their signatures (the signature can be electronic as long as an enforcement officer can view it)
- the capacity in which the transferor and transferee are acting (e.g. as a producer, importer or registered waste carrier, broker or dealer) and their relevant authorisation to act in that capacity (e.g. their permit number or registration number)

- 3.10.2 A waste information note will not be required for non-hazardous waste if the waste holder does not change on the transfer of waste e.g. the waste is moved to other premises belonging to the same business. However, it is best practice that the business understands who has responsibility for that waste and a record is kept of internal transfers for audit purposes.
- 3.10.3 **Hazardous waste:** The site will be accepting hazardous waste into the site all so a fully completed hazardous waste consignment note will be completed for each load accepted. The records of which will be kept for 5 years.
- 3.10.4 A summary of waste types and quantities deposited at and removed from the site and origin and destination details are then forwarded to NRW using the standard Generic Operator Returns electronic spreadsheet(s), with submission due within one month of the end of each quarter as below:
- a) Quarter 1: January to March (due on or before 30th April)
 - b) Quarter 2: April to June (due on or before 31st July)
 - c) Quarter 3: July - September (due on or before 31st October)
 - d) Quarter 4: October - December (due on or before 31st January of the following year)
- 3.10.5 Outcomes of inspections of waste types, hardstanding areas, transfer/treatment areas, storage areas, drainage channels, etc. are recorded using the site inspection form NHB/RF/4 or similar document and detailed comments are entered into the site's diary (including action taken or proposed).
- 3.10.6 Visitors to the site are made to sign the visitor's book upon arrival and exit stating the purpose of their visit and whom they represent.

3.11 Site closure plan

3.11.1 In the event the site ceases to operate as a waste transfer/treatment facility as set out in the site's EP, the following steps will be followed to achieve site closure:

- i) Contact NRW to advise the Waste Regulation Officer(s) that the site is planned to cease / have ceased the acceptance of wastes under the EP.
- ii) The amount of residual processed and unprocessed waste on site will be assessed by the TCM to set a timetable for the final processing and timely removal of waste from site.
- iii) Following removal of all waste, plant and machinery from site a site investigation will be undertaken to ascertain the ground conditions of the land to which the site relates.
- iv) A surrender application will then be submitted to NRW for determination.

4 Environmental control, monitoring and reporting

4.1 Breakdowns and spillages

- 4.1.1 In the event of breakdown of the loading plant, alternative plant will be brought on site until it is repaired. If alternative plant cannot be sourced then waste will be stored securely until the plant is repaired. The repair will be carried out at the most convenient location with absorbents used to clear oil or fuel spillages.
- 4.1.2 In terms of plastic waste, the operator can divert any waste material to their site in Flint whilst alternative is being sourced or repaired ensuring that there is always available plant on site to carry out the process. There is also a further plastics container recycling facility situated on Wrexham Industrial Estate where waste could be diverted to prevent a backlog.
- 4.1.3 Any spillages of fuel/oil will be cleared immediately by depositing sand or absorbents on the affected area. The sand or absorbents will be placed in a skip/container to be taken to a suitably permitted site for disposal. All spillages of waste and windblown litter will be cleared by the end of the working day in which they occur. Spillage clearance procedures are detailed in Section 5.3.
- 4.1.4 All wastes liable to give rise to contamination will be removed from the site if the site is not secure or if operations cease or temporarily suspended.

4.2 Site diary / inspection form

A site diary for the purpose of recording site activities will be maintained in addition to record form NHB/RF/4. The diary will also be used to record any other information relevant to the working of the site. The following information will be recorded in the diary/record forms required by the EP:

- i) The identity of the signature of the inspection personnel;
- ii) The date and time of the inspection (or event);
- iii) The inspection details and any actions taken; and,
- iv) The name of the nominated deputy in the absence of the site manager.

4.3 Security monitoring

- 4.3.1 As the site has security infrastructure in terms of gates/fencing, CCTV and alarms; no further monitoring i.e., security guard patrols will be carried out and the site is manned 24/7.

4.4 Control of mud and debris

- 4.4.1 Although unlikely to present a problem, due to the nature of the waste accepted and site surfacing of the site, visual inspections of the site will be carried out daily (see NHB/RF/4). However, staff will report any problems with mud or debris at the site immediately to the site manager.

4.5 Control of dust

- 4.5.1 The operates within accordance of an approved site-specific dust management plan which provides all dust sources and control measures.

4.6 Odour control

- 4.6.1 Risk assessment of the waste streams accepted at the site has revealed that the detection of noticeable odour outside the site buildings is unlikely for the following reasons:

- i) The strict waste acceptance criteria present a very low risk of odour nuisance.
- ii) Low storage durations.
- iii) The nearest residential properties are situated over 300m from the site
- iv) The waste accepted is not considered to be of putrescible nature.
- v) If malodorous waste is detected after deposit it will remain inside the container and marked as rejected and placed in quarantine for removal off site as soon as practicable.
- vi) Any incoming containers which are malodorous will be rejected. The operator will know from experience which containers are malodorous from their activities taking place.
- vii) Containers which have contained product which is known to be odorous will be rejected.

4.6.2 There is, however, the potential for odour generation during the processing of containers i.e. shredding, washing etc. For this reason, the washing of the plastics takes place inside the building to reduce the risk of volatilisation.

4.6.3 Odour checks will be carried out daily and results recorded on the inspection form for the site (i.e. record form NHB/RF/4 or the operators own recording form). Any wastes identified as giving rise to odour will be quarantined, where possible, and removed from site immediately, where practicable.

4.6.4 The site will have a complaints procedure similar to the information shown in NHB/RF/6 and will be rigorously enforced should a third-party complaint be received from a public or private source.

4.7 Litter control & management

4.7.1 Although unlikely to present a problem, due to the nature of the waste accepted, containment measures and site surfacing of the site, visual inspections of the site will be carried out daily (see NHB/RF/4). Litter netting is also present to the west and northern

boundaries of the site. However, staff will report any problems with litter at the site immediately to the site manager.

- 4.7.2 When staff carry out inspections for litter on and off site they will collect the litter and place it in a skip for recovery before the end of the working day. Regular checks including four over a 24-hour period of the areas immediately beyond the site boundary will be carried out by site operatives. In the event of high winds, the frequency of checks may increase to reduce the risk of complaints.

4.8 Control of pests, birds and other scavengers

- 4.8.1 As the site will be accepting plastic waste there is potential for the risk of pests. The site will reduce this by continuous daily inspections for the presence of pests and the results of the inspection noted in the site diary or site inspection form.
- 4.8.2 If any occurrences of pests are noted, a pest controller will be called to site to eradicate the problem within a suitable timescale agreed with NRW.

4.9 Control and monitoring of noise & vibration

- 4.9.1 Sol Acoustics Ltd ("Sol") were appointed to provide an environmental noise impact assessment (NIA) for the proposed additional plant and processes to be added to this EP. Within the NIA comprises a Noise Management Plan to ensure noise emissions are controlled and will not result in any adverse impact. In order for the site to operate without any adverse impact, a number of improvements/recommendations are provided which include the following:

UNITS 9 & 11 – Plastic and Wood Recycling

- Terex TDS V20 shredder, externally sited (the external Terex TDS V20 shredder shall no longer be used. The internally sited tyre shredder is to be used instead). No external shredding to be permitted at Unit 9.

- Molson SK130 LC excavator, externally sited (the excavator is to be replaced by a new internally sited shredder forming part of a new mixed rigid line (to be covered under a sperate Permit Variation).
- Extract fan outlet (1 no.): Noise from the existing exhaust stack outlet must not exceed a sound pressure level of 85dB LAeq,T at one metre distance from stack outlet edge (and 90° off longitudinal axis of the stack) at any required operating condition/duty/mode. Make provisions for an induct attenuator to be fitted to the outlet of the fan.
- only to be used for shredding pre-shredded wood. Must not be used for processing larger wood products such as wood pallets.

UNIT 11 – Tyre Recycling Facility

- The tyre recycling line is to be installed in a new purpose-built building
- Roller shutters and personnel doors must always be kept closed when not in use for immediate, momentary vehicle/personnel ingress/egress.

UNIT 11 – PET Facility

- Roller shutters and personnel doors must always be kept closed when not in use for immediate, momentary vehicle/personnel ingress/egress. Roller shutter doors must be kept closed during evening and night time periods

UNIT 11 – PET Facility

- Roller shutters and personnel doors must always be kept closed when not in use for immediate, momentary vehicle/personnel ingress/egress. Roller shutter doors must be kept closed during evening and night time periods

UNIT 11 – General

- Install a 3m high acoustic screen to the north, east and south of the site. This will be done using lego blocks without any gaps.

- 4.9.2 The above improvements will be agreed with NRW and Sol prior to the plant being operated.
- 4.9.3 In addition to the above, the operator will ensure the site is operated to the best practical means which will involve the following:
- Ensure any acoustic fences/walls installed are checked daily with any impairment to the fences being rectified within a suitable timescale agreed with NRW
 - No idling policy i.e. all engines to be switched off on fixed and mobile plant when not in use.
 - Implementation of a 5mph speed limit onsite for mobile plant.
 - All drivers are required to enter and exit the site with due consideration for neighbours.
 - Waste can only be accepted during daytime operational hours i.e. no shouting, loud radios, windows closed, follow site signage.
 - Management will ensure that all fixed and mobile plant are well maintained.
 - Mobile plant will be operated with silencers/white noise alarms or cameras and moving parts to be regularly lubricated.
 - The existing access road to the site will be maintained in good state of repair to prevent unnecessary noise being generated.
 - All operational areas of the site to be surfaced with concrete and maintained in good state of repair to prevent unnecessary banging of vehicles on uneven ground.
 - If repairs to the site are required, the work is to be undertaken with due regard for the possible noise nuisance and during the normal working day.
 - If repairs to the site are required, the work is to be undertaken with due regard for the possible noise nuisance and during the normal working day.
 - All HGVs operated by New Horizon Plastics Co Ltd be fitted with chain socks in order to reduce the noise produced by the loose chains banging on the side of the skip.
- 4.9.4 **Noise complaints** - Any noise complaints received will be recorded using form NHB/RF/7. The form as a minimum will include a record of the complaint, particulars of the complainant and details of any action taken to alleviate the problem. All complaints received by the site will be reported to NRW by the end of the working day.

4.10 Complaint's procedure

- 4.10.1 All complaints are recorded using a form like NHB/RF/6. The form as a minimum will include a record of the complaint, particulars of the complainant and details of any action taken to alleviate the problem.

4.11 Responding to non-compliance issues

- 4.11.1 All non-compliances are recorded using a form NHB/RF/7. The form as a minimum will include a summary of the non-compliance, no. of non-compliances, summary of communications with NRW including timescales to rectify the non-compliance and a summary of the actions taken to rectify the non-compliance.

5 Emergency procedures and contingencies

5.1 General

- 5.1.1 In addition to obligations imposed by RIDDOR '13 (Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013) the permit holder will notify the NRW of any serious injuries to employees of New Horizon Biofuel and Animal Beddings Co Ltd, other site users or members of the public arising as a result of operations on site. Minor injuries such as cuts and grazes etc. will be recorded in the accident book on site. Separate procedures will be used for different types of emergencies. An emergency at the site is defined by the site management as follows:

“Any incident which is likely to result in harm to human health or pollution of the environment or serious breach of permit conditions and serious detriment to the amenities of the locality.”

- 5.1.2 For all emergency situations, the deposit of any further waste will be suspended where necessary to allow action to be taken safely. If necessary, staff and other users of the site will be evacuated to an area which is a safe distance away from the hazards. Staff handling the emergency will be provided with and trained to use the necessary PPE (personal protective equipment) unless the manager instructs them that the hazard is too severe and outside help is needed from the emergency services or specialist waste contractors. A visitor's book will be kept to check who is on site at all times.

5.2 Fire

- 5.2.1 The site will have an NRW approved FPMP (Document Ref. VIE-2704-B) which all staff are required to be familiar with and know of its location i.e. in the site office.
- 5.2.2 For quick reference, the following actions will be taken when fire is detected or suspected (Site operatives):
- a) DON'T PANIC
 - b) RAISE THE ALARM (IF NOT DONE SO ALREADY)
 - c) NOTIFY THE SITE MANAGER (IF SAFE TO DO SO)
 - d) **DO NOT TRY TO TACKLE THE FIRE YOURSELF UNLESS YOU ARE TRAINED IN DOING SO AND YOU ARE SURE OF THE NATURE OF THE FIRE**
 - e) LEAVE THE USING THE MAIN ACCESS GATES AS QUICKLY AND AS ORDERLY AS POSSIBLE
 - f) ASSEMBLE AT THE SPECIFIED FIRE ASSEMBLY POINT WHICH IS LOCATED BY THE SITE ACCESS GATES.
 - g) THE SITE MANAGER OR DELEGATED OPERATIVE WILL BE IN CHARGE OF CALLING THE EMERGENCY SERVICES ON A999" AND ENSURING THAT ALL PERSONS WHO WERE WORKING ON THE SITE OR WHO SIGNED IN TO THE VISITOR'S BOOK ARE ASSEMBLED SAFELY
 - h) INFORM ALL NEIGHBOURING PREMISES WHO ARE LIKELY TO BE AFFECTED
 - i) INFORM THE NATURAL RESOURCES WALES
 - j) DO NOT RETURN TO THE SITE UNTIL YOU HAVE BEEN GIVEN THE ALL CLEAR BY THE EMERGENCY SERVICES AND THE SITE MANAGER

5.3 Spillages

- 5.3.1 If any spills occur a spill containment kit (absorbent pads, booms or granules) will be used to prevent further spillage and the contaminated absorbents placed in a skip for disposal to a suitably permitted site. No chemical leaks are expected in the waste handling area but should they occur the procedures outlined in Section 5.4 will apply. Any wastes which would

be classified as having the potential to cause polluting runoff are stored within the concrete area which is a sealed drainage system.

5.4 Adverse reactions

- 5.4.1 No wastes are accepted which will react to present such a hazard or adverse reaction i.e. fire, odour, dust etc... This could include hazardous substances generating odour, hot loads, batteries, waste not listed on the permit creating a fire or dust risk and if unauthorised waste is found in a load and does present such a hazard the same procedures as for the deposit of drums (above) shall apply. As the site is permitted to accept hazardous waste containers which can have dangerous residues, the operator can liaise with the on-site chemist prior to accepting the load and also once the load has been accepted to ensure it is suitable.

5.5 Staff shortages

- 5.5.1 In the event of unforeseen staff shortages arising from illness, suspension or no shows, the operator will make a judgement whether to reduce the number of incoming loads and divert material to an alternative site. The operator will then seek further employment within a timely manner to ensure the site can continue to operate at its required capacity.

5.6 Adverse weather conditions

- 5.6.1 **High winds** - The waste storage bays and treatment plant inside the building will provide sufficient containment to prevent light wastes from blowing off site in high winds. Vehicles leaving the site will be sheeted to comply with the requirements of the Duty of Care legislation.
- 5.6.2 **Poor visibility** - Site operations may reduce due to lesser vehicle movements in conditions of such as dense fog to reduce the risk of vehicle collision or other accidents.

- 5.6.3 **Droughts / warm weather** – As the waste stored externally isn't considered to be dusty, there shouldn't be a dust issue during these periods. In terms of water supply for the wash plant, the water re-circulates in the system so does not require a continuous supply to operate in the event of a water ban.
- 5.6.4 **Long periods of rainfall or flood events** – Site operations will not be affected by conditions of wet weather as the site benefits from a sealed drainage system and interceptor which can handle long rainfall events. If the site did flood, a vacuum tanker would be deployed to pump excessive water.
- 5.6.5 **Closure of destination sites** – The site only operates where there is an outlet for material so this will reduce any impact of creating a backlog of waste. The operator can also divert incoming waste to their site in Flint and other sites in North Wales.

5.7 **Operational failure**

- 5.7.1 The manager will be contacted by staff in the event of any operational failure such as the breakdown of plant, systems or equipment and will decide whether operations are to continue or be suspended prior to corrective action being taken. Serious operational failures, which result in the closure of the site, will be recorded in the site diary.

5.8 **Bomb scare**

- 5.8.1 In the unlikely event of a bomb scare, the site will be evacuated and the police contacted. The police will then assume control of the site until the threat has been verified or the device defused and removed. NRW will be kept informed of the events on site.

6 Training for site staff

6.1 Training needs assessment

- 6.1.1 All new and existing site staff, including operational staff are subject to a specific training regime based on their responsibilities at the site to ensure all operations are carried out without harm to the environment or amenity of the surrounding area. Training in all aspects of the site and waste operations at the site with regard to the individual responsibilities of the site staff will help to prevent incidents occurring which may have an adverse impact on the environment and/or the employees and their co-workers. This training will involve review of site management documents i.e. EMS, FPMP, DMP, NMP and how to conduct site inspections in order to prevent an incident i.e. spillage or fire occurring. The review will also include a review of the EP ensuring they are familiar with all conditions and knowing incidents on site which could lead to a potential breach and how to resolve them.
- 6.1.2 An employee training record will be available at the site detailing information similar to NHB/RF/5 in Appendix II and shall provide a comprehensive checklist for the training needs of all new site staff and also serves as a training review for existing site staff which will be carried out annually or a period set at the operator's preference.

6.2 Site rules and infrastructure training

- 6.2.1 This information is provided to all employees, visitors and contractors with a full understanding of the site's conditions of use, which is communicated and documented at induction for all staff with specific induction for visitors and contractors.
- 6.2.2 Competency should be demonstrated within this field to ensure the employee is fully aware of the site's surroundings and operations to ensure their safety and compliance with specific operating conditions at the site.

6.3 Emergency procedures training

- 6.3.1 All employees are required to be familiar with the Environmental Controls in Section 4.0 and the Emergency Procedures as detailed in the Section 5.0.
- 6.3.2 In addition to normal operating conditions as specified in the site rules, employees must also be trained in dealing with eventualities which may occur outside the scope of normal operating conditions, so they are aware of how to deal with these situations in advance of an occurrence.

6.4 Fire safety / firefighting training

- 6.4.1 Management must provide all employees with appropriate fire safety training with regard to their individual responsibilities.
- 6.4.2 Emergency procedures detailing what measures employees should adopt should a fire occur at the site are detailed in Section 5.2 and are covered by the 'emergency procedures' training (see Section 6.3).
- 6.4.3 Regular fire drills are undertaken by site management to ensure proper procedures are followed by employees in the unlikely event that a fire incident occurs. These will be unannounced drills and will not form part of the induction or review training as specified in Section 6.1.

6.5 Recognition of waste types training

- 6.5.1 All employees are given induction training and subsequent regular training to identify those waste types which are permitted for acceptance at the site under the site's EP and those wastes which are not. This will include specific training to identify those common wastes which may be found following deposit and are not permitted at the site and will also include more obscure wastes and how to handle these wastes safely. All employees are advised that they should refer any unrecognisable or unknown wastes to senior management, who

should, in turn, follow procedures outlined in the EMS and/or contact the NRW to agree a suitable method for removal.

- 6.5.2 Training is provided to all site users who handle waste on site and those in charge of administration and reporting. In-depth training will also be provided to drivers responsible for collecting wastes from the site of production in accordance with Section 3.0. They will be trained to identify any wastes not covered by the EP for the site and inform the producer that an alternative facility must be sought for any non-compliant wastes.

6.6 Storage areas / limits training

- 6.6.1 Those employees who carry out their responsibilities at the site and those in senior posts must be trained to identify appropriate waste storage areas to ensure that waste storage operations comply with the requirements of the EP for the site.
- 6.6.2 Employees in these roles must also be trained to recognize storage limits to ensure that they are in accordance with those specified in Section 1.6

6.7 Vehicle / plant preventative maintenance training

- 6.7.1 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.
- 6.7.2 Training will be in accordance with this document and will be based on the preventative maintenance schedule supplied by the plant/equipment manufacturer.
- 6.7.3 The same training will be provided to senior management enabling a dual-level maintenance programme.

6.8 Duty of care training

- 6.8.1 All employees dealing with consignments of waste are trained in the completion of Duty of Care Waste Transfer Notes and the appropriate auditing of destination sites and/or contractors to ensure compliance.

6.9 Plant operation training

- 6.9.1 Any employees who are required to operate loading or treatment plant for the movement or processing of waste will be required to undertake the necessary qualifications for the operation of the specific item of plant in question. This will be required prior to operating the plant and will be obtained through necessary external certification programmes.
- 6.9.2 Regardless of general plant operation certification, all operatives will be fully inducted in the operation of the specific make and/or model of plant used on site.

6.10 Permit / management System

- 6.10.1 All employees will be inducted into the operating conditions as prescribed in the EP for the site. Whilst much of the above training will provide specific guidance on many aspects of these documents, all employees will be made aware of the location of the EP and EMS in the site office. All managerial positions will be made fully aware of the site's operating conditions.

6.11 Training for contractors

- 6.11.1 General site training will be provided to any contractors who are working on the site on a temporary basis as described in Sections 6.2, 6.3 and 6.4 above.
- 6.11.2 Additional training will be provided to contractors in their area of expertise. If they are dealing with specific items of plant/equipment/machinery, site operating conditions and a

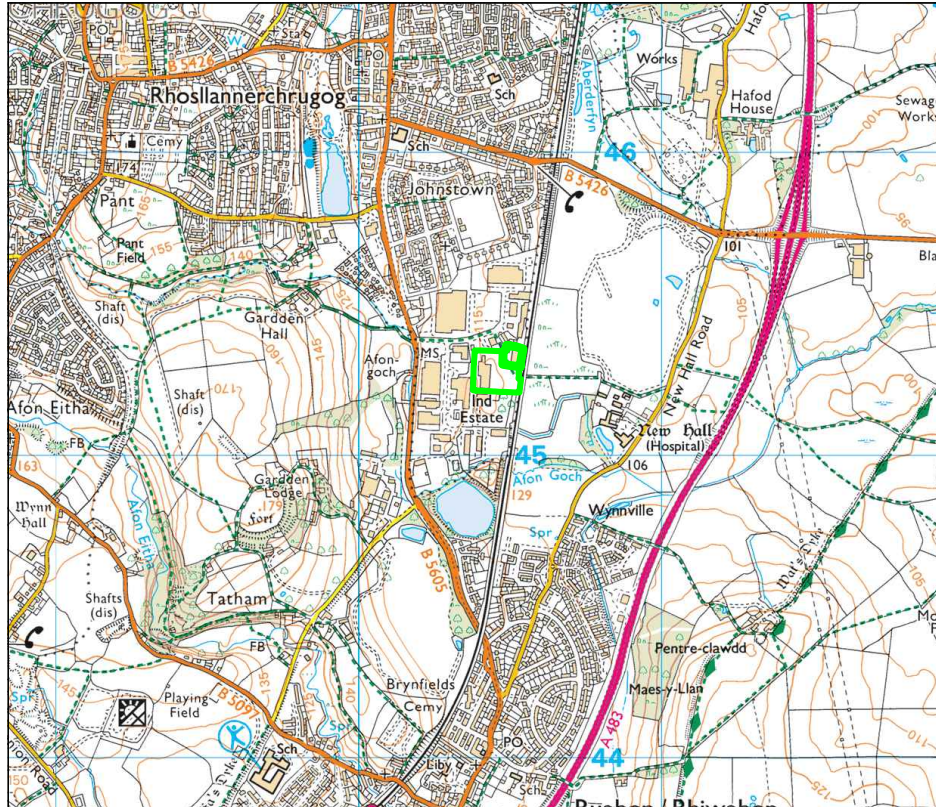
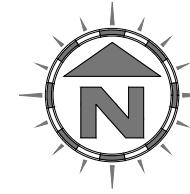
general understanding of the EP conditions will be provided to prevent any adverse impacts on the environment.

Appendix I

Drawings

Scale Bar (1:25,000)

0 km 1 km 2 km



NOTES

Drawing for indication only. Reproduced with the permission of the controller of H.M.S.O. Crown copyright licence No. 100022432. This drawing is copyright and property of Oaktree Environmental Ltd.

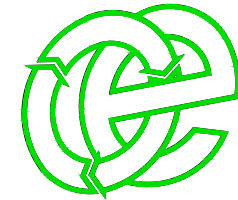
REVISION HISTORY

Rev:	Date:	Init:	Description:
-	11.10.21	CP	Initial drawing
A	06.03.23	CP	Boundary update
B	04.10.23	CP	Re-addition of Unit 10

KEY:

— Permit boundary

Oaktree Environmental Ltd
Waste, Planning and Environmental Consultants



DRAWING TITLE
SITE LOCATION MAP

CLIENT
New Horizon Biofuel and Animal Beddings Co Ltd

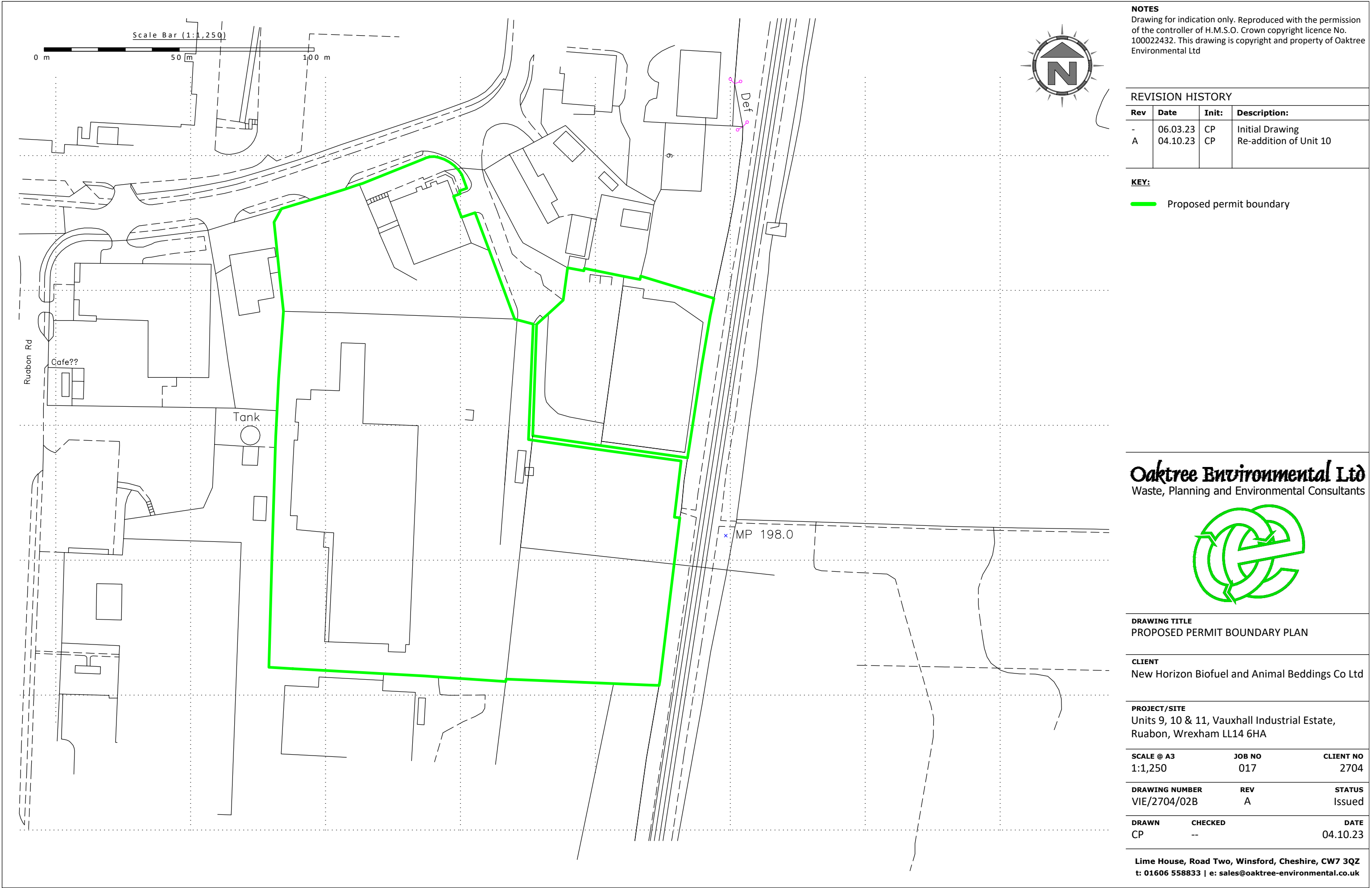
PROJECT/SITE
Units 9, 10 & 11, Vauxhall Industrial Estate,
Ruabon, Wrexham LL14 6HA

SCALE @ A4 1:25,000 **CLIENT NO** 2704 **JOB NO** 017

DRAWING NUMBER VIE/2704/01 **REV** B **STATUS** Issued

DRAWN BY CP **CHECKED** -- **DATE** 04.10.23

Lime House, Road Two, Winsford, Cheshire, CW7 3QZ
t: 01606 558833 | e: sales@oaktree-environmental.co.uk

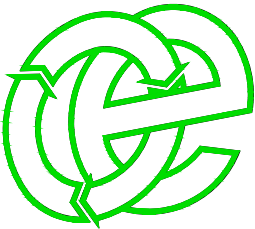


NOTES
Drawing for indication only. Reproduced with the permission of the controller of H.M.S.O. Crown copyright licence No. 100022432. This drawing is copyright and property of Oaktree Environmental Ltd

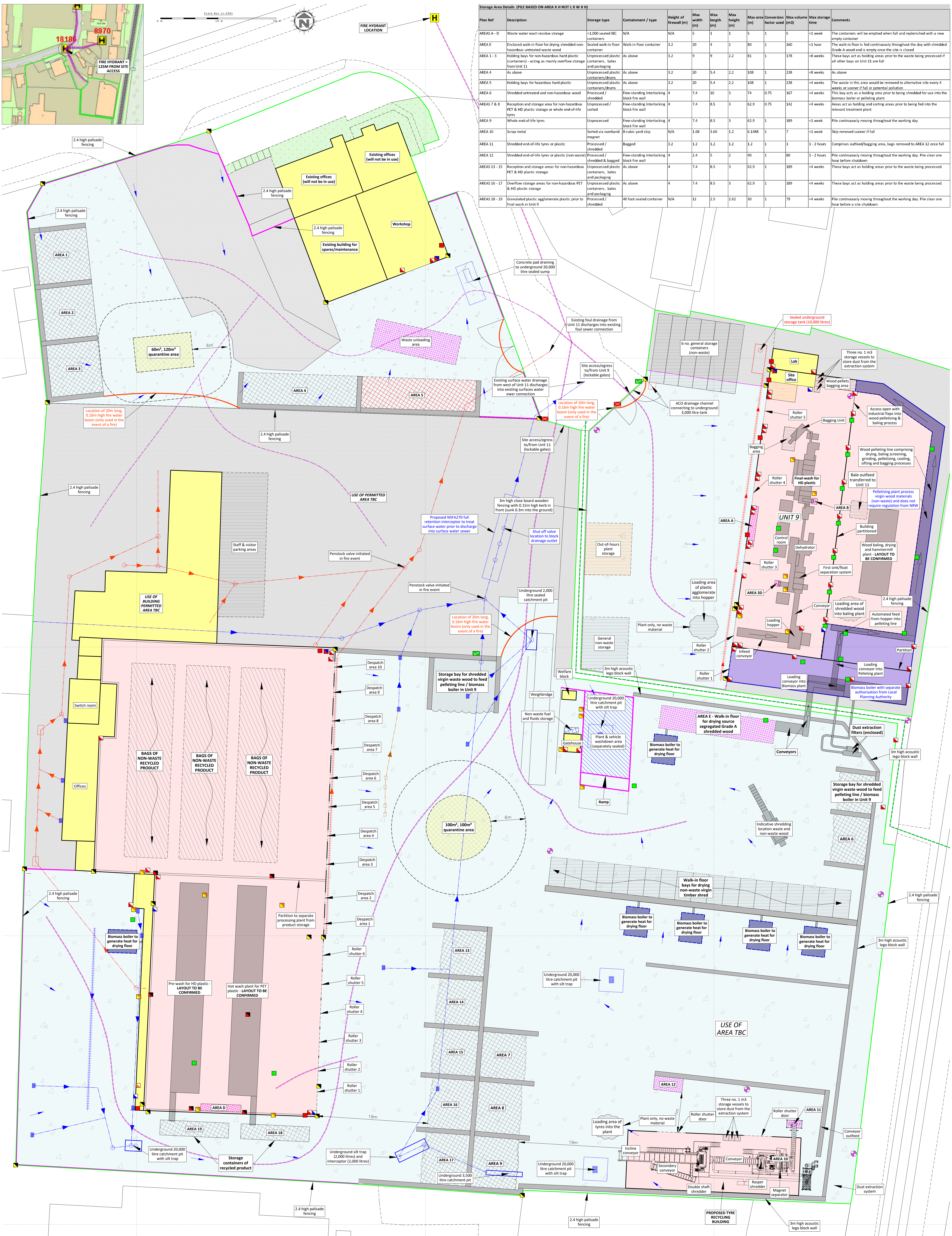
REVISION HISTORY			
Rev	Date	Init:	Description:
-	06.03.23	CP	Initial Drawing
A	04.10.23	CP	Re-addition of Unit 10

KEY:
— Proposed permit boundary

Oaktree Environmental Ltd
Waste, Planning and Environmental Consultants



DRAWING TITLE		
PROPOSED PERMIT BOUNDARY PLAN		
CLIENT		
New Horizon Biofuel and Animal Beddings Co Ltd		
PROJECT/SITE		
Units 9, 10 & 11, Vauxhall Industrial Estate, Ruabon, Wrexham LL14 6HA		
SCALE @ A3	JOB NO	CLIENT NO
1:1,250	017	2704
DRAWING NUMBER	REV	STATUS
VIE/2704/02B	A	Issued
DRAWN	CHECKED	DATE
CP	--	04.10.23
Lime House, Road Two, Winsford, Cheshire, CW7 3QZ t: 01606 558833 e: sales@oaktree-environmental.co.uk		



Storage Area Details (PILE BASED ON AREA X NOT L X W X H)												
Plan Ref	Description	Storage type	Containment / type	Height of firewall (m)	Max width (m)	Max length (m)	Max height (m)	Max area (m²)	Conversion factor used	Max volume (m³)	Max storage time	Comments
AREAS A - D	Waste water wash residue storage	<1,000 sealed IBC containers	N/A	N/A	5	1	1	5	1	5	<1 week	The containers will be emptied when full and replenished with a new empty container
AREA E	Enclosed walk-in floor for drying shredded non-hazardous untreated waste wood	Sealed walk-in floor container	Walk-in floor container	3.2	20	4	2	80	1	160	<1 hour	The walk-in floor is fed continuously throughout the day with shredded Grade A wood and is empty once the site is closed
AREA 1 - 3	Holding bays for non-hazardous hard plastic containers - acting as mainly overflow storage from Unit 11	Unprocessed plastic containers, bales and packaging	As above	3.2	9	9	2.2	81	1	178	<8 weeks	These bays act as holding areas prior to the waste being processed if all other bays on Unit 11 are full
AREA 4	As above	Unprocessed plastic containers/drums	As above	3.2	20	5.4	2.2	108	1	238	<8 weeks	As above
AREA 5	Holding bays for hazardous hard plastic	Unprocessed plastic containers/drums	As above	3.2	20	5.4	2.2	108	1	238	<4 weeks	The waste in this area would be removed to alternative site every 4 weeks or sooner if full or potential pollution
AREA 6	Shredded untreated and non-hazardous wood	Processed / shredded	Free-standing interlocking block fire wall	4	7.4	10	3	74	0.75	167	<4 weeks	This bay acts as a holding area prior to being shredded for use into the biomass boiler or pelleting plant
AREAS 7 & 8	Reception and storage area for non-hazardous PET & HD plastic storage or whole end-of-life tyres	Unprocessed / sorted	Free-standing interlocking block fire wall	4	7.4	8.5	3	62.9	0.75	142	<4 weeks	Areas act as holding and sorting areas prior to being fed into the relevant treatment plant
AREA 9	Whole end-of-life tyres	Unprocessed	Free-standing interlocking block fire wall	4	7.4	8.5	3	62.9	1	189	<1 week	Pile continuously moving throughout the working day
AREA 10	Scrap metal	Sorted via overhead magnet	8-cubic yard skip	N/A	1.68	3.66	1.2	6.1488	1	7	<1 week	Skip removed sooner if full
AREA 11	Shredded end-of-life tyres or plastic	Processed / shredded	Bagged	3.2	1.2	1.2	1.2	1.2	1	1	1 - 2 hours	Comprises outfeed/bagging area, bags removed to AREA 12 once full
AREA 12	Shredded end-of-life tyres or plastic (non-waste)	Processed / shredded & bagged	Free-standing interlocking block fire wall	4	2.4	5	2	40	1	80	1 - 2 hours	Pile continuously moving throughout the working day. Pile clear one hour before shutdown
AREAS 13 - 15	Reception and storage areas for non-hazardous PET & HD plastic storage	Unprocessed plastic containers, bales and packaging	As above	4	7.4	8.5	3	62.9	1	189	<4 weeks	These bays act as holding areas prior to the waste being processed
AREAS 16 - 17	Overflow storage areas for non-hazardous PET & HD plastic storage	Unprocessed plastic containers, bales and packaging	As above	4	7.4	8.5	3	62.9	1	189	<4 weeks	These bays act as holding areas prior to the waste being processed
AREAS 18 - 19	Granulated plastic agglomerate plastic prior to final wash in Unit 9	Processed / shredded	40 foot sealed container	N/A	12	2.5	2.62	30	1	79	<4 weeks	Pile continuously moving throughout the working day. Pile clear one hour before a site shutdown.

Oaktree Environmental Ltd

Waste, Planning and Environmental Consultants

CLIENT

New Horizon Biofuel and Animal Beddings Co Ltd

PROJECT/SITE

Units 9, 10 & 11, Vauxhall Industrial Estate, Raubon, Wrexham LL14 6HA

SCALE @ A0

1:200

DRAWING NUMBER

VIE/2704/03

DRAWN BY

CP

CHECKED

NHB

DATE

10.07.24

CLIENT NO

2704

JOB NO

017

REV

M

STATUS

Issued

DATE

10.07.24

Key:

Permit boundary

Area covered by Part 8 Authorisation with UP and area not part of permitted operations

Combustible waste storage areas

Combustible waste storage areas (potentially hazardous)

Temporary storage areas (maximum 1 - 2 hours)

Product storage non-waste

Out-of-hours mobile plant storage

Waste recycling buildings

Concrete areas

Other buildings (offices, etc.)

Stone surface / free draining

Landscape/grass areas

Location of feed & mobile plant (indicative)

Interlocking concrete fire walls (minimum 0.6m thick)

0.30 - 0.15m high concrete kerbing/seal

Main water point

Spill kit

Fire fighting equipment (extinguishers, etc.)

Fire water containment / pollution control equipment i.e. booms, drain mats, drain plugs etc.

Protective clothing location

Access routes for emergency vehicles and site plant manoeuvring areas

Fire alarm

Surface water fall direction

Surface water drainage

Foul water drainage

Redundant, collapsed drainage

ACO drain (foul)

ACO drain (foul)

Foul, surface water and redundant manholes

Gully

Plant shut-off

Fire assembly point

CCTV cameras (indicative)

Infrared/heat detection cameras

Emergency services box

Public Right of Way (PRoW)

NOTES

Drawing for indication only. Reproduced with the permission of the controller of H.M.S.O. Crown copyright. Licence No. 100024332. This drawing is copyright and property of Oaktree Environmental Ltd.

REVISION HISTORY

Rev	Date	Int	Description
A	02.06.21	CP	Initial drawing
B	09.09.21	CP	Updated layout / client comments
A	11.10.21	CP	Updated layout / client comments
C	21.02.22	CP	Updated layout / NRW comments
D	26.09.22	CP	Updated layout / NRW comments
E	11.11.22	CP	Updated layout / NRW comments
F	15.11.22	CP	Updated layout / NRW comments
G	09.03.23	CP	Draft to remove Unit 10 and add Unit 11
H	27.07.23	CP	Updated for permit variation copy
I	04.10.23	CP	Re-addition of Unit 10
J	08.12.23	CP	Operator comments
K	23.02.24	CP	NRW/Operator comments
L	15.05.24	CP	NRW/Operator comments
M	10.07.24	CP	NRW/Operator comments

Appendix II

Record Keeping Forms

NEW HORIZON BIOFUEL AND ANIMAL BEDDINGS CO LTD
REJECTED WASTE - RECORD FORM NHB/RF/2

DATE	
TIME	
WASTE DESCRIPTION	
QUANTITY OF WASTE	
PRODUCER/HOLDER'S NAME, ADDRESS & TELEPHONE No.	
NAME OF CARRIER	
VEHICLE REGISTRATION	
CARRIER REG. No.	
REASON FOR REJECTION OF WASTE	
ACTION TAKEN	

NEW HORIZON BIOFUEL AND ANIMAL BEDDINGS CO LTD SITE INSPECTION FORM – NHB/RF/4									
WEEK STARTING									
TYPE OF INSPECTION		FREQ	DAY						
			M	T	W	T	F	S	S
SITE ENTRANCE/NOTICE BOARD		WEEKLY							
SECURITY - GATES		WEEKLY							
SECURITY - FENCING		WEEKLY							
SITE ROADS (CLEAR FROM HAZARDS)		DAILY							
IMPERMEABLE CONCRETE AREAS		DAILY							
BUND AROUND CONCRETE PAD (INTEGRITY)		DAILY							
DRAINS (FUNCTIONING)		DAILY							
INTERCEPTOR		WEEKLY							
WASTE CONTAINERS		DAILY							
WASTE STORAGE LIMITS HAZ WASTE < 50t		WEEKLY							
WASTE STORAGE LIMITS NON-HAZ WASTE		WEEKLY							
WASTE STORAGE LIMITS OTHER		WEEKLY							
REJECTED WASTE TYPES / STORAGE		WEEKLY							
NOISE LEVELS		DAILY							
FIRES (ANY INCIDENTS REPORTED)		DAILY							
NO SMOKING SIGNS IN PLACE		MONTHLY							
SPILLAGES & ABSORBENTS		DAILY							
FUEL TANK/BUND INTEGRITY		WEEKLY							
LITTER		DAILY							
DUST		DAILY							
ODOUR		DAILY							
VERMIN		DAILY							
RECORDS		WEEKLY							
COMPLAINTS RECEIVED		AS REQUIRED							
OTHER (SEE NOTES BELOW)		AS REQUIRED							
INSPECTION CARRIED OUT BY									
		NOTES/ACTION (CONTINUE ON A SEPARATE SHEET IF NECESSARY):							
CHECKED BY					SIGNATURE				
POSITION					DATE				
<i>Sheet</i>					<i>of</i>				

NEW HORIZON BIOFUEL AND ANIMAL BEDDINGS CO LTD - EMPLOYEE TRAINING NEEDS ASSESSMENT / REVIEW - NHB/RF/5

EMPLOYEE NAME				DATE COMPLETED			
POSITION				REVIEW DUE			
TRAINER				OUTCOME	PASSED		
POSITION					FURTHER TRAINING REQUIRED		
CARRIED OUT /SIGN OFF >	Y/N	SIGNED BY EMPLOYEE	SIGNED BY TRAINER		Y/N	SIGNED BY EMPLOYEE	SIGNED BY TRAINER
ENVIRONMENTAL PERMIT				FIRE PREVENTION & MITIGATION PLAN			
MANAGEMENT SYSTEM				FIRE SAFETY			
SITE RULES				EMERGENCY PROCEDURES			
RECORD KEEPING / TRANSFER NOTES				STORAGE /PILE SIZE LIMITS			
RECOGNITION OF WASTE TYPES				STORAGE DURATION			
SECURITY				FIRE DETECTION			
VEHICLE CHECKS				FIRE ALARMS			
PLANT OPERATION				FIRE FIGHTING EQUIPMENT			
PLANT CHECKS				FIRE WATER CONTAINMENT MEASURES			
AMENITY - LITTER, ODOUR, PESTS etc.				SPILL CLEARANCE			
NOTES AND ACTIONS:							

NEW HORIZON BIOFUEL AND ANIMAL BEDDINGS CO LTD
COMPLAINTS REPORT FORM (NHB/RF/6)

Date Recorded:	Reference Number:
Name and address of caller	
Telephone number of caller	
Time and Date of call	
Nature of complaint (noise, odour, dust, other) (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 Environmental Management System (EMS)	
Date changes implemented	
Form completed by	
Signed	
Date completed	

COMPLAINT RECORDING PROCEDURE:

Any complaints received will be recorded on form NHB/RF/6. This form will normally be completed, signed and dated by the Site Manager; if they are not available the Office Manager will complete the form.

- 1) The name, address and telephone number of the caller will be requested.
- 2) Each complaint will be given a reference number.
- 3) The caller will be asked to give details of:
 - a) the nature of the complaint;
 - b) the time;
 - c) how long it lasted;
 - d) how often it occurs;
 - e) Is this the first time the problem has been noticed; and
 - f) what prompted them to complain.
- 4) The person completing the form will then, if possible, make a note of:
 - a) the weather conditions at the time of the problem (rain, snow, fog etc.);
 - b) strength and direction of the wind; and
 - c) the activity or activities taken place on the site at the time the noise was detected, particularly anything unusual.
- 5) The reason for the complaint will be investigated and a note of the findings added to the report.
- 6) 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.
- 7) If the caller is unhappy about the outcome or unwilling to identify themselves the caller will be invited to contact the NRW and or the Local Authority.

Note: Following any complaint the relevant management plan(s) will be reviewed to ensure appropriate actions are in place to counter any problems.

NEW HORIZON BIOFUEL AND ANIMAL BEDDINGS CO LTD
NON-COMPLIANCE REPORTING FORM (NHB/RF/7)

List of actions	Answer (as much detail as possible)
Date and reference of CAR Form	
No. of non-compliances	
Summary of non-compliances (use extra sheet if required and attach to this form)	
<i>Do we agree with the non-compliance?</i> (If no, summarise why and attach correspondence as necessary)	
Summary of communications with NRW (use extra sheet if required and attach to this form)	
Weather at the time of the permit breach including temperature, wind speed, average rainfall	
The operations being carried out on site at the time of the non-compliance	
Follow Up	
Actions taken	
Summary of response to NRW (add correspondence if necessary)	
Have NRW agreed the non-compliance has been rectified? If no, summarise and list dates to comply	
Recommendations	
Change in procedures	
Changes to Environmental Management System (EMS)	
Date changes implemented	
Form completed by	
Signed	
Date completed	

Appendix III

Copy of Issued Environmental Permit

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

New Horizon Biofuel & Animal Beddings
Co Ltd

New Horizon Biofuel and Animal
Bedding Co Ltd

Units 9 & 10

Vauxhall Industrial Estate

Ruabon

Wrexham

LL14 6HA

Permit number

EPR/CB3797CA

New Horizon Biofuel and Animal Bedding Co Ltd

Permit number EPR/CB3797CA

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This is a Tier 3 bespoke permit for a hazardous and non-hazardous waste physical treatment facility.

Treatment operations are limited to manual and/or mechanical sorting, separation, screening, drum/container washing, baling, pelletising, flaking, dehydrating, shredding, granulating, crushing, compaction and bulking up. Treatment is for the purpose of recovery or disposal. The only permitted treatment of hazardous waste is storage and manual drum/container washing.

Permitted waste types are hazardous and non-hazardous plastic waste.

The maximum quantity of waste accepted and processed on site shall not exceed 78,650 tonnes per year.

Unit 9 activities covered by this permit:

- external areas are limited to waste acceptance storage and shredding.
- internal areas are limited to plastics treatment plant.

Unit 10 activities covered by this permit:

- external areas are limited to waste acceptance and storage and manual washing of hazardous waste.

Activities carried out on site, but not covered by this permit:

- internal areas of Unit 9- wood treatment plant (permitted under local authority part B authorisation)
- external areas of Unit 9- wood and non-waste materials storage
- internal areas of Unit 10- non-waste materials storage

Relevant storage thresholds have been included in the permit to reflect the legal waste facility operational limits; above which, the site would be operating as an Industrial Emissions Directive installation. (See Table S1.1 for relevant limits.)

This permit does not allow any point source emission into surface waters or groundwater except clean, rainfall dependant drainage from areas of the site not used in connection with the storage and/or treatment of waste.

The external yard area for both Units 9 and 10 will drain into sealed underground storage tanks and the contents tankered away once full.

There are to be no emissions to surface and/or groundwater from the buildings on site.

All emissions from the activity which are not controlled via actual emission limits, are controlled through the 'emission of substances not controlled by emission limits condition' and any all relevant process requirements set out in Tables S1.1 and S1.2.

The burning of any wastes, either in the open, inside buildings or in any form of incinerator is not permitted.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/CB3797CA/A001	Duly made 05/10/22	Application for hazardous and non-hazardous waste physical treatment facility.
Additional information received in response to Schedule 5 notice	14/11/22	Consisting of Schedule 5 notice response document and updated: <ul style="list-style-type: none"> - Site Layout & Fire Plan (revision E) - Receptor Plan Revision C) - Environmental Management System (version 1.5) - Fire Prevention & Mitigation Plan (version 1.4) - Non-Technical Summary (version 1.4) - Environmental Risk Assessment (version 1.4) - Noise Impact Assessment (version 1.3) - Noise & Vibration Management Plan (version 1.1)
Additional information received in response to Schedule 5 notice	15/11/22	Consisting of Schedule 5 notice response document and updated: <ul style="list-style-type: none"> - Environmental Management System (version 1.6) - Fire Prevention & Mitigation Plan (version 1.5) - Environmental Risk Assessment (version 1.5) - Noise Impact Assessment (version 1.4) - Noise & Vibration Management Plan (version 1.2)
	16/01/23	Consisting of: <ul style="list-style-type: none"> - Noise Impact Assessment (version 1.5) - Noise & Vibration Management Plan (version 1.3) - noise modelling files
	25/01/23	Consisting of additional information on noise monitoring.

Status log of the permit		
Description	Date	Comments
	06/02/23	Consisting of: <ul style="list-style-type: none"> - Noise Impact Assessment (version 1.6) - Noise & Vibration Management Plan (version 1.4)
Permit determined EPR/CB3797CA	07/02/23	Permit issued to New Horizon Biofuel & Animal Beddings Co Ltd

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/CB3797CA

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

New Horizon Biofuel & Animal Beddings Co Ltd (“the operator”),

whose registered office is

91 Soho Hill
Birmingham
United Kingdom
B19 1AY

company registration number **11777941**

to operate waste operations at

New Horizon Biofuel and Animal Bedding Co Ltd
Units 9 & 10
Vauxhall Industrial Estate
Ruabon
Wrexham
LL14 6HA

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Huw Davies	07/02/2023

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.2.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table(s) S2.1 [, S2.2 etc.]; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.4 Technical requirements

Hazardous waste storage and treatment

- 2.4.1 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.5 Improvement programme

- 2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by Natural Resources Wales.
- 2.5.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions of substances not controlled by emission limits

- 3.1.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.1.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

- (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.1.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.2 Odour

3.2.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.2.2 The operator shall:

- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.3 Noise and vibration

3.3.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4 Pests

3.4.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

3.4.2 The operator shall:

- (a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales.

3.5 Fire

3.5.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.

3.5.2 The operator shall:

- (a) if notified by Natural Resources Wales that the activities could cause a fire risk, submit to Natural Resources Wales a fire prevention plan which identifies and minimises the risks of fire;
- (b) Operate the activity in accordance with the fire prevention plan, from the date of submission, unless otherwise agreed in writing by Natural Resources Wales.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 Within one month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

4.3.1 Natural Resources Wales shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities		
Activity reference	Description of activities for waste operations	Limits of activities
A1 Hazardous and Non-Hazardous Waste Physical Treatment Facility	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	All hazardous and non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage to sump.
	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection on the site where it is produced).	The maximum quantity of hazardous waste that can be stored at the site in total for recovery or disposal, shall not exceed 50 tonnes at any one time.
	R3: Recycling/ reclamation of organic substances which are not used as solvents	Hazardous waste for disposal must be kept within clearly identified, secure containers.
	R4: Recycling/ reclamation of metals and metal compounds	Treatment operations shall be limited to manual and/or mechanical: <ul style="list-style-type: none"> - sorting - separation - screening - drum/container washing - baling - pelletising - flaking - dehydrating - shredding - granulating - crushing - compaction - bulking up
	D9: Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (e.g. evaporation, drying, calcination, etc.)	of permitted waste for the purpose of recovery and/or disposal.
	D14: Repackaging prior to submission to any of the operations numbered D1 to D13	The only permitted treatment of hazardous waste is manual drum/container washing.
		Permitted activities in the external areas of Unit 9 are limited to waste acceptance storage and shredding.
		Permitted activities in the internal areas of Unit 9 are limited to plastics treatment plant.
		Permitted activities in the external areas of Unit 10 are limited to waste acceptance and storage and manual washing of hazardous waste.
		There are no permitted activities in the internal areas of Unit 10.
		Waste types as specified in Table S2.1.

Table S1.2 Operating techniques

Description	Parts	Date Received
Technical Guidance Document: 'How to comply with your environmental permit'	All relevant sections	N/A
Sector Guidance Note IPPC S5.06: Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste	All relevant sections	N/A
Fire prevention and mitigation plan guidance - Waste Management	All relevant sections	N/A
Response to Schedule 5 Notice dated 03/11/22	Environmental Management System (ref. VIE-2704-A_EMS_v1.6) Section: <ul style="list-style-type: none"> - 1.6.5 Hazardous waste acceptance procedures - 2.6 Site security - 2.8 Rejected / quarantined waste - 3.1 Preliminary procedures - 3.2 Checking in & inspection of loads (containers) - 3.3 Checking in & inspection of loads (general) - 3.5 Waste treatment - 3.6 Waste removal & export - 4.1 Breakdowns and spillages - 4.6 Odour control - 4.7 Litter control & management - 4.8 Control of pests, birds and other scavengers 	15/11/22
	Fire Prevention & Mitigation Plan (ref. VIE-2704-B_FPP_v1.5) Sections: <ul style="list-style-type: none"> - all 	
Response to Schedule 5 Notice dated 20/12/22	Noise Impact Assessment (ref. VIE-2704-F_NIA_v1.6) Section: <ul style="list-style-type: none"> - 5.1.7- bullet point 7- roller shutters on the western façade of Unit 10 building must be closed during night-time hours - 5.2.2- installation of PVC strip curtains on roller shutter doors and closing of the shutter doors when not in use during daytime hours - section 1.3.3- confirming that loose plastic will not be accepted on site 	06/02/23
	Noise & Vibration Management Plan (ref. VIE-2704-H_NVMP_v1.4) Section: <ul style="list-style-type: none"> - all 	

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IPC1	<p>The Operator shall undertake noise monitoring to assess the risk at the nearest sensitive receptors (Noise Monitoring Position A and New Hall Independent Hospital) as identified in the Noise Impact Assessment (ref. VIE-2704-F_NIA_v1.6) in Table S1.2 of this permit.</p> <p>This shall include:</p> <ul style="list-style-type: none">• A full noise monitoring survey and assessment meeting the BS4142:2014+A1:2019 standard. <p>Upon completion of the survey, a written report shall be submitted to Natural Resources Wales for approval. The report shall refer to the predictions in the report provided with the permit application. If rating levels likely to cause an impact at sensitive receptors are detected, the report shall include an assessment of the most suitable abatement techniques, an estimate of the cost and a proposed timetable for their installation on site.</p>	6 months after permit issue or otherwise agreed in writing with Natural Resources Wales

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for Hazardous and Non-Hazardous Waste Physical Treatment Facility

Maximum quantity	The maximum quantity of waste to be accepted on site shall not exceed 78,650 tonnes per year.
Exclusions	Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • consisting solely or mainly of dusts, powders or loose fibres • sludges • odorous or odour producing • clinical waste
Waste code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 04	waste plastics (except packaging)
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	waste plastic
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging
15 01 10*	packaging containing residues of or contaminated by hazardous substances
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 02	wood, glass and plastic
17 02 03	plastic
17 02 04*	glass, plastic and wood containing or contaminated with hazardous substances consisting of plastic only
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 04	plastic and rubber consisting of baled plastic only

Schedule 3 – Emissions and monitoring

There are no emission limits or associated monitoring requirements.

Schedule 4 - Reporting

There is no reporting under this schedule.

Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

“Annex I” means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Annex II” means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“building” means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“emissions to land” includes emissions to groundwater.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“groundwater protection zones 1 and 2” have the meaning given in the document titled Groundwater Protection: Policy and Practice" published by the Environment Agency in 2006.

“hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“hazardous substance” means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008.

“hazardous waste” has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended).

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the surface.

“Pests” means Birds, Vermin and Insects.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

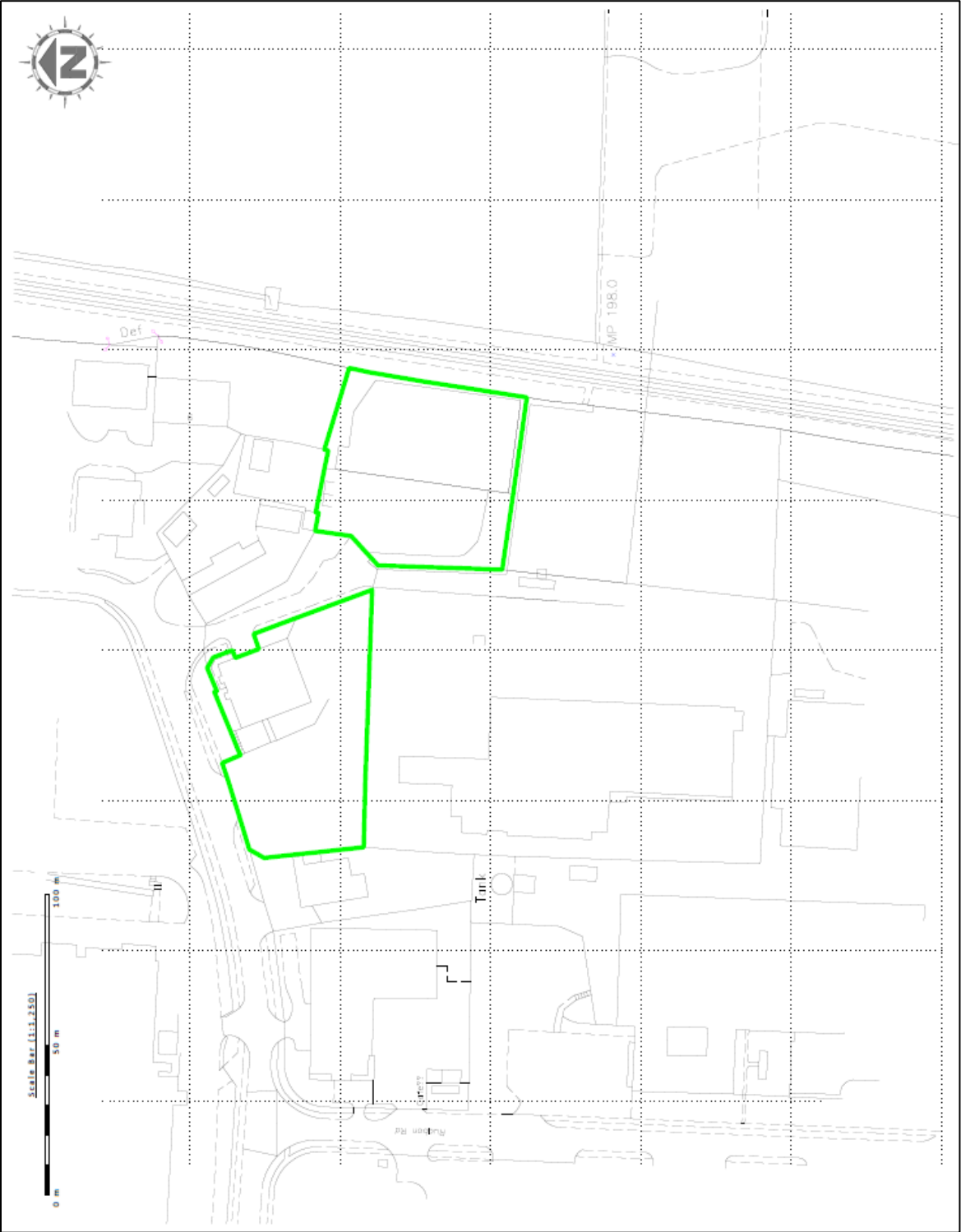
“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*Waste code*” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) and in relation to hazardous waste, includes the asterisk.

“*Waste Framework Directive*” or “*WFD*” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

“*year*” means calendar year ending 31 December.

Schedule 7 - Site plan



END OF PERMIT

Appendix IV

Health & Safety – Conditions of Site Use

HEALTH AND SAFETY - CONDITIONS OF SITE USE

The following guidelines apply to all site personnel, contractors and visitors using the site (where applicable).

- 1) The site is covered by the Health and Safety at Work Act 1974 and its associated regulations and all users must abide by any relevant provisions. Any person found to be in contravention of the requirements of this Health and Safety Statement will be asked to leave the site.
- 2) All visitors and contractors must sign the visitor's book upon entry to and exit from the site. All vehicle drivers must report to the office and await instruction from the site manager/deputy before proceeding to deposit waste at the site.
- 3) All accidents, diseases, injuries or dangerous occurrences shall be reported to the site manager. All instructions issued by the site manager in respect of health and safety at the site must be followed by all site users.
- 4) A first aid box (including eye-wash bottles) is kept in the site office. If you are injured on site please alert a member of staff/trained first-aider for assistance.
- 5) All persons must wear the appropriate PPE on site including high visibility jackets and hard hat.
- 6) Safety boots must be worn by all persons in the waste sorting/storage areas.
- 7) Protective gloves must be worn for any operations which present a hazard of puncture to or laceration of the skin or for any manual handling work carried out on site.
- 8) Ear defenders, safety helmets (hard hats) and eye protection will be issued when deemed necessary and must be worn by all employees and contractors where required by the site manager or other site representatives.
- 9) Fire extinguishers are kept on site to deal with any fires - fires shall only be dealt with by employees of New Horizon Biofuel and Animal Beddings Co Ltd unless alternative instructions are given by the site manager. Access to fire exits and firefighting equipment must be kept clear at all times. When the fire alarm sounds please follow instructions and leave the site in an orderly fashion.
- 10) Persons who are suspected to be under the influence of drugs or alcohol will be removed from the site.
- 11) Smoking is not permitted on the site.
- 12) Observe and follow all traffic directions and traffic/safety signs.
- 13) Drivers must comply with all safety instructions given by the site manager or appointed deputy.
- 14) All drivers are responsible for ensuring that their vehicle is safely loaded. Unsafe loads will not be accepted at the site and will not be allowed to leave the site until they have been made safe.
- 15) Drivers waiting to tip at the recycling centre shall follow the instructions of the operator and shall only tip in the designated area, unless advised otherwise. No tipping shall take place over sorted stockpiles.
- 16) Drivers must remain in the cab or stand well clear of the vehicle during loading or tipping. Once the vehicle has been loaded it must be securely sheeted (if necessary) before leaving the site. When sheeting and unsheeting the vehicle ensure that the engine is switched off, the ignition key removed and the parking brake is on. Do not gain access using the mudguards and wheels. Ensure that your ropes, hooks and sheets are in good condition.
- 17) Never travel with the vehicle body raised. Ensure you know the maximum height of the raised body of your vehicle.

Declaration: To be completed by site users

I have read and understand the conditions of use for this site and agree to comply with them at all times. I accept that neither New Horizon Biofuel and Animal Beddings Co Ltd nor their employees shall be liable for any loss or injury arising from my non-compliance with the above conditions.

Signed.....

Print name.....

Company/Organisation.....

Date.....

Note: these conditions are included in the EMS for information only and may be revised regularly as part of the site health and safety policy.