

# Appleford Recycling Facility

784- B066441

## Dust Management Plan

Environmental Permit Variation Application

Hanson Quarry Products Europe Ltd

July 2024

Document prepared on behalf of Tetra Tech Environment Planning Transport Limited. Registered in England number: 03050297

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Appendix A – Proposed Waste Types

Appendix B – Complaints Form

Appendix C - Daily Site Inspection Log

## 1.0 Introduction

### 1.1 Report Context

- 1.1.1 This Dust Management Plan (DMP) has been prepared by Tetra Tech on behalf of Operator, Hanson Quarry Products Europe Ltd (Hanson) to support an Environmental Permit Variation Application for Hanson's permitted facility at Appleford Recycling Facility located at Site 1, Sutton Courtenay Quarry, Appleford, Abingdon, Oxfordshire, OX14 4PP, at approximate National Grid Reference (NGR) SU 51673 93244. As Hanson are seeking an extension, the NGR including the proposed extension area is SU 51556 93431.
- 1.1.2 Hanson currently hold a Bespoke Environmental Permit (EPR/GB3934AC) for the site which was issued in September 2012. The permitted activities comprise of the treatment of wastes consisting of sorting, separation, screening, crushing, and blending of waste for recovery as soil, soil substitute or aggregate. The site accepts less than 200,000 tonnes of non-hazardous waste per annum.
- 1.1.3 Hanson are seeking to vary the existing Environmental Permit to add a soil washing facility that will process a maximum of 400,000 tonnes per annum of non-hazardous soils. Hanson also seek to extend the permit boundary to include the area to the northwest as shown on Drawing Number APP/B066441/PER/01.
- 1.1.4 According to the Environment Agency's (EA) 'Control and Monitor Emissions for your Environmental Permit' guidance a DMP must be prepared to support an application that comprises the *"keeping or treatment (or both) of household, commercial or industrial waste in a materials waste transfer station/ material recycling facility"* as well as the *"keeping or treating (or both) scrap metal"*.
- 1.1.5 As such, this DMP has been prepared in accordance with the EA's 'Dust & Emission Management Plan' template (Version 10, October 2018).
- 1.1.6 This DMP is a working document, intended to be used as a reference document for operational staff on a day-to-day basis. Hanson will implement the plan to ensure that all reasonable measures are taken to control dust emissions, and in the event that an adverse impact is caused, prompt action will be taken to identify the source and apply corrective measures. It provides a schedule of actions that will be taken to minimise dust impact and details site management procedures for the management and monitoring of dust.

## 2.0 Site Description

### 2.1 Site Setting

- 2.1.1 The site is located approximately 1km southwest of the village of Appleford on the south bank of the River Thames in Oxfordshire and is centred at approximate National Grid Reference (NGR) SU 51673 93244. As Hanson are seeking an extension, the NGR including the proposed extension area is SU 51556 93431. The application site is detailed on Drawing Number APP/B066441/PER/01.
- 2.1.2 The site is an existing recycling facility known as Appleford Recycling Facility which operates under a Bespoke Environmental Permit (reference EPR/GB3934AC). The north, east and south of the site are bordered by rural land and the west of the site is bordered by additional industrial activities. The site is also located approximately 4.4km west of Little Wittenham’s area of Outstanding Natural Beauty and 5km west of the designated Site of Special Scientific Interest (SSSI) of Little Wittenham.
- 2.1.3 Access to the site is achieved via the Sutton Courtenay Quarry access road which leads off Main Road (B4016).

### 2.2 Overview of Site Activities

#### Physical Treatment Facility

- 2.2.1 Hanson are currently operating a Physical Treatment Facility under a Bespoke Environmental Permit which allows for the treatment of waste consisting only of sorting, separation, screening, crushing, and blending of waste for disposal or for recovery as a soil, soil substitute or aggregate. This activity accepts less than 200,000 tonnes per annum to site.
- 2.2.2 It is proposed that this activity is retained as part of the variation to the environmental permit and is located to the east of the permitted area.
- 2.2.3 The operation of the waste transfer station will fall under the following Recovery and Disposal codes (R and D codes) shown in Table 1, provided for in Annex II to Directive 2008/98/EC of the European Parliament and The Council of 19th November 2008 Waste.

**Table 1: Permitted R&D Codes**

R/D Code	Activity Description
R3	Recycling/reclamation of organic substances which are not used as solvents
R5	Recycling/reclamation of other inorganic materials
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)

D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)
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Soil Washing Facility

- 2.2.4 It is now the intention of Hanson to vary the Environmental Permit to add a Soil Washing Facility to the permitted activities on site.
- 2.2.5 The soil washing facility will be located to the north and will be to create recycled aggregates which are suitable for use in construction projects.
- 2.2.6 The proposal entails the operation of a soil washing facility that will process a maximum of 400,000 tonnes per annum of non-hazardous soils.
- 2.2.7 It is considered that the proposed soil washing activity will fall under the following Recovery and Disposal codes (R and D codes) shown in Table 2, provided for in Annex II to Directive 2008/98/EC of the European Parliament and The Council of 19<sup>th</sup> November 2008 Waste.

**Table 2: Proposed Soil Washing Facility R&D Codes**

R/D Code	Description of Activity
R3	Recycling/ reclamation of organic substances which are not used as solvents
R5	Recycling/reclamation of other inorganic compounds
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)

## 2.3 Waste Types

- 2.3.1 Details of the permitted and proposed waste types are provided as Appendix A.

## 2.4 Waste Quantities

Physical Treatment Facility

- 2.4.1 The existing permitted physical treatment facility has an annual throughput of less than 200,000 tonnes.

Soil Washing Facility

- 2.4.2 The proposed soil washing facility will have an annual throughput of 400,000 tonnes.
- 2.4.3 There will be no hazardous waste accepted on site.

## 2.5 Process Description

### Physical Treatment Facility

- 2.5.1 Under the current environmental permit Hanson operate a Physical Treatment Facility at the site. It is the intention of Hanson to retain this activity on site under the varied permit, activities pertaining to the physical treatment facility will occur in enclosed systems.
- 2.5.2 Vehicles delivering waste loads will enter the site via the weighbridge, where the waste acceptance procedures mentioned above will be undertaken. If the waste is deemed acceptable, the driver will be directed to the waste treatment area as shown on the Site Layout Plan.
- 2.5.3 Waste will only be handled by competent staff.
- 2.5.4 A variety of waste treatment methods will be applied on site which is subject to the nature of the waste. For example, bulky waste will initially be processed via a screener to segregate the waste into a variety of sizes. Depending on the particle size of the resultant material, a crusher may be employed to crush the waste and processed via a screener a second time to reduce the particle size of the material. Alternatively, wastes that originally comprise finer particles will not require crushing and therefore will only be processed via a screener.
- 2.5.5 Following treatment, the waste will be unloaded into clearly defined stockpiles located adjacent to the waste treatment area. Processed materials will be stored on the existing site hardstanding.
- 2.5.6 Products produced will be in accordance with the relevant End of Waste Protocol. The resultant materials will be tested in accordance with the WRAP Quality Protocol in order to determine whether they have met end of life test and as such cease to be classified as waste. These materials will be stored on hardstanding.
- 2.5.7 The results of the testing will determine the destination of the material in accordance with the End of Waste Protocol.
- 2.5.8 The stockpile will remain on site until such time as sufficient volume is acquired for it to be removed from site to the receiving site and in any case no longer than the period identified within the Environmental Permit.
- 2.5.9 Collards will maintain details of the measures to be taken during abnormal operating conditions to make sure they continue to comply with permit conditions. Abnormal operating conditions include the following: -
- Unexpected releases;
  - Start-up;
  - Momentary stoppages; and,

- Shutdown.

#### Soil Washing Facility

- 2.5.10 Upon arrival, all loads will be inspected by site management and any large or nonconforming materials will be removed prior to treatment. All stockpiles on site will be stored in a loose form. All soil washing activities will be undertaken on hard standing.
- 2.5.11 Materials will be fed into a hopper with the assistance of mobile plant and will then travel along a conveyor, at which point any small pieces of scrap metal which may be present within the waste loads will be removed using an overband magnet.
- 2.5.12 Any oversize materials (particles 100mm - 150mm) will be removed via a screener subject to materials feed.
- 2.5.13 The remaining waste material, varying in size depending on market demands, will then travel along a log washer where it will be sprayed with wash water. After passing along the log washer, the clean waste materials will be separated into smaller fractions via a gravel sizing screen.
- 2.5.14 The sand and silt fraction together with most of the water passes through screen and enters a sump from where it is pumped into a hydrocyclone or plate press, which will separate the sand from any contaminants. The water will be recirculated back into the washing process.

## 2.6 Waste Storage

- 2.6.1 There will be clearly defined areas for waste storage and treatment at the site.
- 2.6.2 There will be a maximum storage capacity of 300kt of untreated materials.
- 2.6.3 There will be a maximum storage capacity of 350kt of treated materials.

## 2.7 Operating Hours

- 2.7.1 The proposed operating hours of the Facility are as follows: -
- 24 hours Monday – Sunday.

## 2.8 Plant and Equipment

- 2.8.1 The following equipment will be used on site: -
- Front end loading vehicle (FEL);
  - 360 grab excavator;
  - Mobile screener;
  - Mobile crusher;
  - Tractor bowser;

- Telehandler;
- Hopper;
- Conveyor;
- Over band magnet;
- Log washer;
- Gravel sizing screen; and,
- Hydrocyclone / filter press.

2.8.2 As a function of the Environmental Management System, the performance of all plant and equipment will be reviewed in comparison to other models that may be available on the market. If there happens to be other models available that perform more efficiently than the site's existing plant and is financially feasible, Hanson may decide to change their existing plant and equipment. As part of the process, Hanson will ensure that all non-road going mobile plant have a minimum Stage IV emission rating and road going vehicles will have a minimum emission rating of Euro VI. As such, the brand, make, model and specification of the mobile plant and equipment that will be used on site is expected to vary throughout the operational life of the facility.

2.8.3 Only personnel who are trained and licensed to operate equipment and carry out maintenance will do so.

2.8.4 All plant and equipment will be maintained in accordance with a preventative maintenance programme which will be defined by the manufacturer's requirements. This will ensure that the integrity and operational efficiency of all plant and equipment is maintained and therefore minimise the risk of mechanical failure which may result in increased dust emissions. This particular programme forms part of the site's Environmental Management System.

2.8.5 In addition, all plant and equipment will be visually inspected on a daily basis by the Site Manager (or a nominated deputy) prior to use. The purpose of this inspection is to identify any signs of defects that may affect the integrity and operational efficiency of the plant.

2.8.6 In the event that a defect is identified on any item of plant or equipment, the use of the plant/equipment will be suspended until the necessary remedial works have been undertaken.

## 2.9 Dust Sensitive Receptors

2.9.1 Receptors within 1km of the site have been listed in Table 3 and are shown on Drawing Number APP/B066441/REC/01.

**Table 3: Location of Potential Receptors Within 1km of the Site**

ID	Receptor	Direction from Operational Area	Minimum Distance from the Permit Application Boundary (approx. m)
<b>Domestic Dwellings</b>			
1	Skylark Fields Estate	NW	470
2	Appleford Road Estates	NW	678
3	Residential Property	S	910
4	Hartwright House	SE	710
5	House adjacent to Railway	SE	350
6	Residencies off B4016	E	285
7	Properties of Appleford	N/E	515
8	Property of B4016	NE	630
<b>Commercial and Industrial Premises</b>			
9	FCC Environment	-	On-Site
10	Heidelberg Materials Ready-mixed Concrete	-	On-Site
11	Loverose Way Industry (Didcot Power Station)	S	930
12	FCC Recycling Appleford Sidings	S	Adjacent
13	FCC Sutton Courtenay	S	Adjacent
14	AJH Vehicle Repairs	SE	860
15	Industrial and Commercial Properties of Appleford	NE	990
16	Industry (The Hawthorns)	NW	455
<b>Schools / Hospitals / Shops/Amenities</b>			
17	Shops and Amenities of the Skylark Fields Estate	NW	519
18	Shops and Amenities of Appleford	NE	635
19	Appleford Village Hall	NE	360
<b>Recreation</b>			
20	Appleford Recreation Ground and Football Field	NE	370
21	Abbingdon Music Centre	NE	875
22	Tennis Court	NE	945

<b>Highways/Minor Roads/Railways</b>			
23	B4016 Appleford Road (N)	NE	275
24	B4016 Main Road (E)	E	405
25	Railway	S	Adjacent
26	Railway	E	310
<b>Protected Habitats</b>			
27	FCC Appleford Deciduous Woodland	-	On-Site
28	FCC Sutton Courtenay Deciduous Woodland	S	Adjacent
29	Railway Deciduous Woodland	E	345
30	Bank Note Place Deciduous Woodland	NW	175
31	River Thames Deciduous Woodland	NE	975
32	Loverose Way Deciduous Woodland	S	865
<b>Listed Buildings and Scheduled Monuments</b>			
33	Elm Hayes (Grade II)	E	845
34	Road Bridge Over Railway Track (Grade II)	E	760
35	Holywell Cottage (Grade II)	NE	790
36	Manor Farm Cottages (Grade II)	NE	805
37	The Tythe Barn and Eyston Barn (Grade II)	NE	880
38	The Thatched Cottage and Attached Cob Wall (Grade II)	NE	890
39	Cob Wall Approximately 5 Metres South of Manor Farmhouse (Grade II)	NE	840
40	Sheltershed Approximately 40 Metres East South East of Manor Farmhouse	NE	950
41	Settlement site SE of church	E	750
<b>Sensitive Land Uses</b>			
42	Hill Farm	S	860
43	Appleford Community Orchard	SE	480
44	Allotments	E	355
45	Bridge Farm	NE	640
<b>Surface Water e.g. rivers and streams</b>			

46	Ponds on Industrial Site off Loverose Way (NW)	N	170
47	Heidelberg Materials Pond	W	Adjacent
48	FCC Environment Pond	-	On-site
49	Pond	N	250
50	Ponds B4016	NE/N	340
51	Fish Pond	NE	340
52	River Thames	N	915
53	Appleford Community Orchard Ponds	SE	290
54	Ponds on Industrial Site off Loverose Way (S)	S	705
55	Church Mill Road Ponds	W	500
56	Stream	W	Adjacent
57	Bank Note Place Pond	W	635

**Nature and Heritage Screening Results**

58	Deciduous Woodland	-	On-Site
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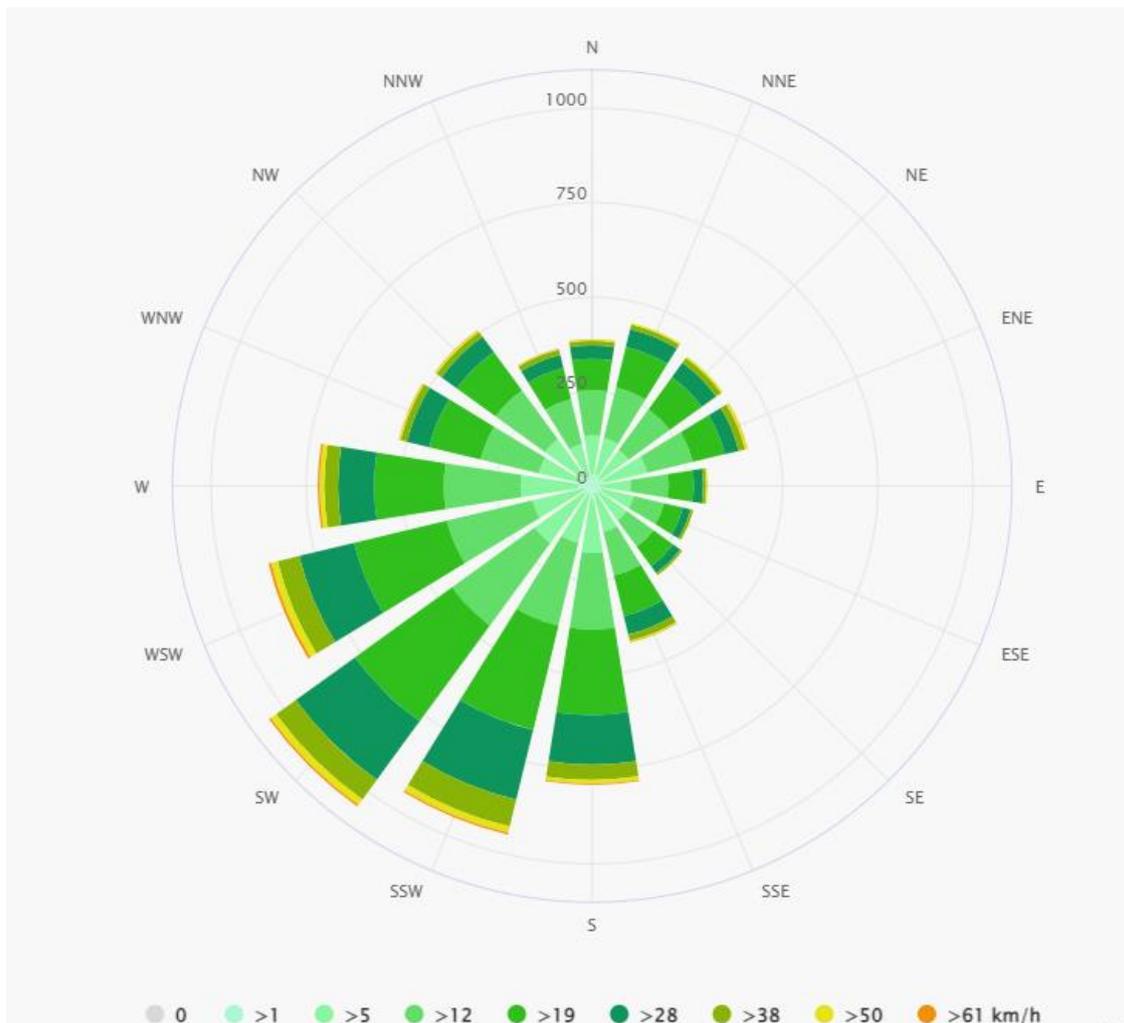
**Groundwater (sensitivity)**

According to the Multi-Agency Geographic Information for the Countryside's (MAGIC) website, the site is not situated within a Groundwater Source Protection Zone. The MAGIC website also indicates that the site is designated as an unproductive Bedrock Aquifer and the northern and southeastern most point of the site are indicated as being a Secondary A Superficial Drift Aquifer.

## 2.10 Wind

- 2.10.1 The prevailing wind direction will determine which receptors will be affected and at what frequency.
- 2.10.2 Meteorological data has been used from Appleford from [www.meteoblue.com](http://www.meteoblue.com) which is considered to be representative of conditions within the vicinity of the application site. According to the wind rose data for the area, the prevailing wind in the local area is from the southwest (SW) as shown in Figure 1 below.

**Figure 1: Prevailing Wind Direction for Appleford**



- 2.10.3 As such, areas at most risk from dust emissions, should it occur, are therefore located northeast of the site. The northeastern boundary is bound by trees and beyond this area lies rural land. Consequentially, it is not anticipated dust emissions will negatively impact receptors beyond this boundary.
- 2.10.4 As noted in Table 3, there are surface water features within 1km of the site. According to the EA's 'Dust & Emission Management Plan' template, surface water and groundwater are not identified as receptors that are susceptible to the adverse effects of exposure to high levels of dust and particulates. As such, these receptors are not considered further in this DMP.
- 2.10.5 As indicated in Drawing Number APP/B066441/PER/01, the north, east and south of the site are bordered by rural land and the west of the site is bordered by additional industrial activities.

## 2.11 Local Contributors to Dust

2.11.1 According to the EA's public register, there are a few waste facilities within 1km of the site that may be considered as local contributors to dust emissions. Details of these facilities are summarised in the table below.

**Table 4: Local Contributors of Dust within 1km of the Site**

Name of Site	Name of Operator	Site Address	Site Type	Direction and distance from the site
Sutton Courtenay Landfill, Appleford Sidings	FCC ENVIRONMENT	Sutton Courtenay Landfill, Appleford Sidings, Sutton Courtenay Oxfordshire, OX14 4PW	A22: Composting Facility	70m west
Heidelberg Materials Ready-mixed Concrete	HEIDELBERG MATERIALS	Sutton Courtenay Quarry, Appleford, Abingdon, Oxfordshire, OX14 4PP	Ready Mix Concrete Supplier	350m west
Sutton Courtenay Materials Recycling Facility	ANTI-WASTE LIMITED	Sutton Courtenay, Appleford, Abingdon, Oxfordshire, OX14 4PP	A12: Clinical Waste Transfer Station	800m southwest
AJH Vehicle Repairs	AJH VEHICLE REPAIRS	Hill Farm, Didcot, Abingdon, OX14 4PJ	Vehicle Repair Facility	1km southeast
Didcot Power Station	RWE N POWER	Loverose Way, Didcot, Abingdon, OX11 7YS	Power Station	930m south

## 3.0 Dust and Particulate Management

### 3.1 Responsibility for the Implementation of the DMP

- 3.1.1 The implementation and dissemination of this DMP will be the responsibility of the Site Manager, supported by other staff. The Site Manager can delegate certain tasks as required, although ultimate responsibility will remain with them.
- 3.1.2 A nominated deputy will be appointed for all times when the Site Manager is not on site. In such circumstances, it will be the nominated deputy's responsibility to ensure that the requirements of the DMP are adhered to.
- 3.1.3 All site staff will receive instructions on how the plan is to be implemented during toolbox talks on site.
- 3.1.4 This document forms part of the site's Environmental Management System (EMS) and will be reviewed on an annual basis to ensure that it is fit for purpose and meets the requirements of current guidance.

### 3.2 Sources and Control of Dust

- 3.2.1 The key aspects of the process which may lead to dust emissions are identified in Table 5 below and the control measures that will be used are detailed in Table 6.

**Table 5: Source-Pathway-Receptor Routes from Waste Activities at the Site**

Source	Pathway	Receptor	Type of impact
Mud	Tracking dust on wheels and vehicles, then mud dropping off wheels/vehicles when dry	Public highways listed in Table 3.	Visual soiling, also consequent resuspension as airborne particulates
Debris	Falling off waste delivery vehicles	Public Highways listed in Table 3.	Visual soiling, also consequent resuspension as airborne particulates
Tipping, storage, and treatment of waste inside building	Escape from buildings and subsequent atmospheric dispersion	Occupiers of domestic dwellings listed in Table 3.  Workforce in commercial and industrial properties listed in Table 3.  Amenities listed in Table 3.	Visual soiling and airborne particulates.

		Habitats listed in Table 3.	
Vehicle exhaust emissions	Atmospheric dispersion	Occupiers of domestic dwellings listed in Table 3.	Visual soiling and airborne particulates
		Workforce in commercial and industrial properties listed in Table 3.	Airborne particulates
Non road going machinery exhaust emissions	Atmospheric dispersion	Amenities listed in Table 3.	Airborne particulates
		Habitats listed in Table 3.	Airborne particulates

**Table 6: Measures to Control Dust/Particulates from Permitted Waste Activities**

Abatement Measure	Description / Effect	Trigger for implementation
<b>Preventative Measures</b>		
Enclosure	Wastes accepted for the site will be stored on external hard standing consisting of made ground. All soil washing activities will be undertaken on an impermeable surface. There are trees along the northeastern boundary which lie between the site and rural land. As the wind direction is of a southwestern direction it is anticipated that the suspension of dust or the likelihood of dust transgressing the sites boundary will be minimal.	All preventative measures will be implemented during the operating hours detailed in Section 2.7.
Enclosure of waste treatment processes	Waste treatment comprises of the existing permitted physical treatment facility and the proposed soil washing activity. These activities will occur within enclosed systems.	
Site speed limit	The site will have a speed limit of 5mph in place to restrict speed on site. This will prevent the suspension and entrainment of dust. Clear signage is established on the site to reinforce the speed limit.	
No-idling policy	A 'No-idling policy' is in place at the site which requires all vehicles and plant to be switched off when not in use.	

Minimising drop heights for waste	Drop heights will be minimised as much as practicable to reduce the generation of dust whilst waste is being deposited.
Site surfacing	The site surfaces comprise of made ground and impermeable surface. All soil washing activities will be undertaken on an impermeable surface. The site surfacing will be visually inspected on a weekly basis to ensure that all areas provide a smooth-running surface. In the event that any damage is identified on the site's surfacing, necessary remedial work will be undertaken as soon as possible. If possible, the area may also be closed off until the necessary remedial works have been undertaken.
Sheeting of vehicles	Wastes being delivered to the site will be covered or sheeted to prevent dust emissions whilst the waste is in transit.
Maintenance of Plant and Equipment	<p>All plant and equipment will be maintained in accordance with the manufacturer's requirements. This will minimise the risk of mechanical failure which may result in increased dust emissions.</p> <p>In addition, all plant and equipment will be subject to visual checks on a daily basis prior to use to ensure that the equipment functions correctly. In the event that any damage is identified on any plant or equipment that may affect its performance, necessary remedial work will be completed as soon as practicable. If necessary, defective plant or equipment may be isolated/closed off for use until the necessary remedial works have been undertaken. With regards to cleaning equipment (i.e. road sweeper), arrangements will be made to employ alternative equipment.</p>
Good housekeeping	The site will be subject to visual inspections on a daily basis to ensure that there is not a build-up of particulates on surfaces and equipment. In addition, site staff will remain vigilant during operational hours for any visible dust on surfaces and equipment. Any abnormal build-up of dust noticeable on surfaces and equipment will be removed as soon as is practicable.

### 3.3 Best Available Techniques

- 3.3.1 The EA's 'Dust & Emission Management Plan' template has been used to ensure that the Best Available Techniques (BAT) are implemented on site.
- 3.3.2 The site will solely be used for the storage of waste, thus no treatment will be occurring, reducing the likelihood that dust and particles will occur from site operations.
- 3.3.3 General site housekeeping will ensure that dust does not build up on site and all dust generating activities will be monitored closely and site operatives will be vigilant and report any excessive dust issues to the Site Manager to be dealt with at the next available notice.

- 3.3.4 The Site Manager will undertake a daily visual assessment of dust levels and all site operatives will be vigilant and report any problems to the manager.
- 3.3.5 Should dust, mud, litter or other debris be identified, a road sweeper will be employed to maintain the site cleanliness.
- 3.3.6 Further, the site layout has been constructed with consideration to neighbouring receptors, including the Protected Habitats, Surface Water Features and Deciduous Woodlands, so that they are unlikely to experience an increase in dust levels this is because the prevailing wind direction is from the southwest and the canopy building is situated along the north-eastern boundary of the site.
- 3.3.7 Vehicles delivering waste to the site will be covered or sheeted to prevent the generation of dust whilst the waste is in transit. Drop heights will also be minimised as much as practicable to reduce the generation of dust from loading/unloading activities.
- 3.3.8 All plant and machinery will have effective silencers where practicable and be maintained in accordance with the manufacturer's requirements to minimise the risk of mechanical failure which could result in increased dust emissions.
- 3.3.9 With the above measures in place, it is considered that the site is considered to be compliant with BAT.

## 3.4 Visual Dust Monitoring

- 3.4.1 Visual dust monitoring of waste stockpiles will be undertaken to determine if dust is being generated on site.
- 3.4.2 Monitoring will also comprise daily observations on the meteorological conditions (particularly the wind speed and direction) at the site. This information will be used by the Site Manager (or a nominated deputy) to determine the risk of dust emissions which is typically elevated during periods of dry weather or high winds. For the purposes of this DMP high winds have been defined Number 7 on the Beaufort scale where wind speeds range from 28-33 knots. The Beaufort Scale defines land conditions in high winds as "*whole trees in motion; inconvenience felt when walking against the wind*".
- 3.4.3 Daily monitoring will be undertaken by a member of site personnel who is trained in this procedure.
- 3.4.4 The results of the visual assessment and comments on the meteorological conditions will be recorded in the Daily Site Inspection Log (Appendix C) and will be reviewed by the Site Manager (or a nominated deputy). Hanson will maintain a record of the Daily Dust Conditions Log and will be referred to in the event of a complaint (as detailed in Table 8).
- 3.4.5 Monitoring will be undertaken during the operating hours detailed in Section 2.7. Hanson do not propose to make any arrangements to monitor dust outside operating hours as it's considered that the risk of dust will be low during this period.

3.4.6 In the event that visible dust or high winds are identified through daily monitoring, the following actions will be undertaken.

**Table 7: Action Plan for Visible Dust or High Wind Speeds**

	Action	Person responsible for ensuring action is carried out	Timescale for action completion
1	<p>The Site Manager (or a nominated deputy) will be notified and will make the appropriate managerial staff and site operatives aware.</p> <p>In the event that visible dust is identified from daily monitoring, the Site Manager (or a nominated deputy) will review site operations to establish if the site can be identified as the source of the dust.</p> <p>In the event that high wind speeds are observed, the Site Manager (or a nominated deputy) will proceed to implement remedial action(s) that are detailed in Step 2.</p>	Site Manager (or a nominated deputy)	Within one working day of observing visible dust or high wind speeds.
2	<p>If the visible dust can be directly related to the site or high wind speeds are observed, remedial action will be undertaken and may include the following depending on the source: -</p> <ul style="list-style-type: none"> <li>• Reduce/limit waste deliveries to and from the site; and,</li> <li>• Reduce/limit waste treatment activities that present a high risk to dust emissions (e.g. shredding and granulator).</li> </ul>	Site Manager (or a nominated deputy)	Within one working day of observing visible dust or high wind speeds.
3	A follow up visual assessment will be undertaken off site on the local road network for any visible dust.	Site Manager (or a nominated deputy)	Within one working day of implementing remedial measure(s).
4	If visible dust is not identified, the Site Manager (or a nominated deputy) will ensure that any action taken and the effectiveness of that action is documented and a record will be maintained.	Site Manager (or a nominated deputy)	Within one working day of implementing remedial measure(s).
5	In the event that visible dust is identified following the implementation of remedial action(s), operations on site will cease and the EA will be informed.	Site Manager (or a nominated deputy)	Within one working day of implementing remedial measure(s).

## 4.0 Reporting and Complaints Procedure

### 4.1 Purpose of Complaints Procedure

- 4.1.1 A DMP should show how the operator will respond to complaints. Any complaints should be investigated promptly, and appropriate remedial action should be taken. The complainant and anyone else likely to be affected should be informed of any action taken in response to the complaint.
- 4.1.2 A procedure has been developed (see Table 8 below) to ensure that complaints will be handled by Hanson appropriately and consistently and to reassure the EA and the public that any of their concerns will be acknowledged and acted upon where appropriate. The procedure will be reviewed on an annual basis or in the event of any significant dust issues.

### 4.2 Complaints Reporting Route

- 4.2.1 In order to ensure that members of the public are easily able to report any complaints relating to dust emissions from the site, there will be a display board at the site entrance which details the site name, the permit number, the EA's contact details and Hanson's contact details. By providing contact details for the EA as well as the operator, this ensures that the member of public can report their complaint and be confident that it will be received by the appropriate party even if they feel uncomfortable discussing directly with the operator.

### 4.3 Complaints Records

- 4.3.1 Auditable records will be kept of any complaints made and the investigations undertaken. This will provide an ongoing record of the causes incidents which will enable Hanson to identify any patterns which would prompt a review in dust management procedures and control measures.

### 4.4 Community Engagement

- 4.4.1 Hanson will be undertaking regular community liaison group meetings with any interested local parties and any issues with dust can be raised at that time.

Figure 2: Reporting Route

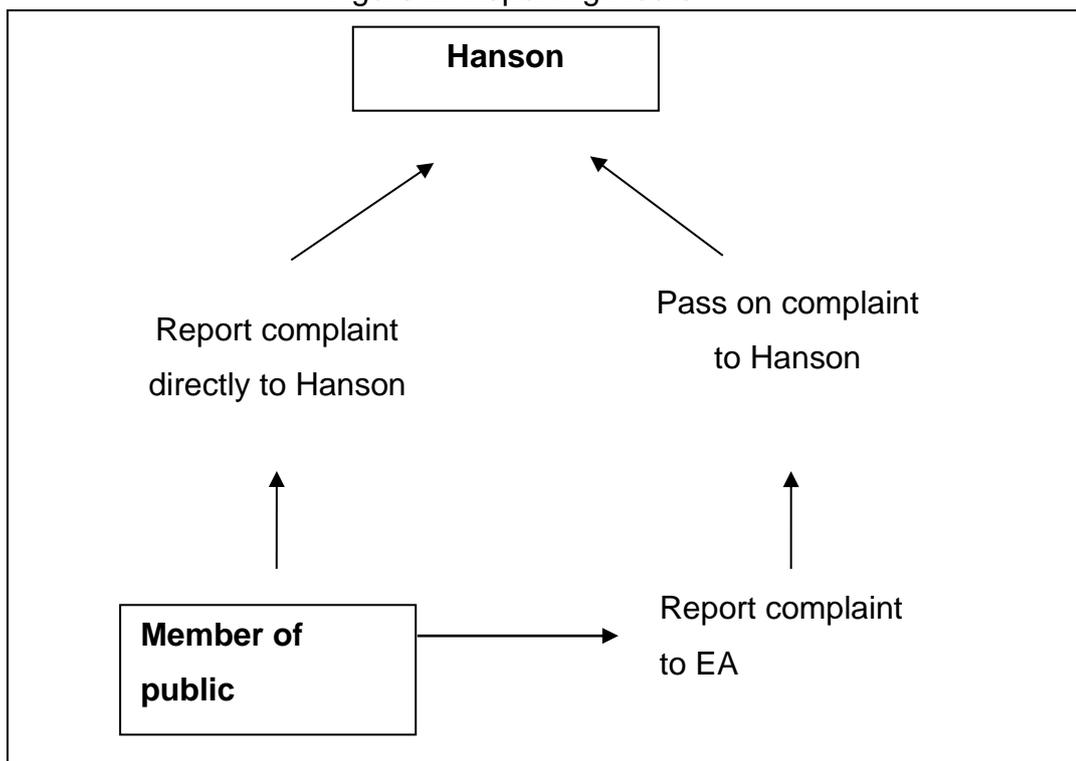


Table 8: Complaints Procedure

	Action	Person responsible for ensuring action is carried out	Timescale for Action Completion
1.	<p>The Site Manager (or a nominated deputy) will be notified of the complaint and will make the appropriate managerial staff and site operatives aware of the complaint.</p> <p>The EA will also be notified of the complaint. The complaint shall be formally recorded using the Complaint Report sheet (Appendix B).</p>	Site Manager or appropriately trained operator	Within two working day of receipt of the complaint.
2.	<p>The complaint will be investigated by: -</p> <p>a) Checking the monitoring records to see whether the complaint corresponds to the monitoring records.</p>	Site Manager or appropriately trained operator	Within one working day of receipt of the complaint.

	<p>b) Checking the Site Diary and waste acceptance records to see if any particularly dusty waste was accepted.</p> <p>c) Checking the Site Diary to see whether the complaint corresponds to any operational issues at the site.</p> <p>If the cause of the complaint is established, it will be recorded within the Complaint Record Sheet (Appendix B). If no particular cause is identifiable then this will also be recorded.</p>		
3.	If more than one complaint is received about a particular incident, and the cause has not been established, Hanson would engage with the complainant(s) and agree corrective action(s) to be undertaken and timescales to implement.	Site Manager or appropriately trained operator	Within one working day of receipt of the complaints.
4.	The Site Manager will instigate any necessary reviews of procedures and will implement corrective action(s) that were agreed with the complainant(s).	Site Manager or appropriately trained operator	Works would commence within seven working days of agreeing corrective action. Completion will depend on timescales agreed with the complainant.
5.	Following the corrective action(s) have been implemented, the complainant and the Environment Agency will be informed.	Site Manager or appropriately trained operator	Within one working day of corrective action(s) being implemented.
6.	A follow up audit on the corrective actions implemented shall be undertaken to ensure the complaint is not made again in the future and that the preventive procedure is effective.	Site Manager or appropriately trained operator	Within two weeks of corrective action(s) being implemented.

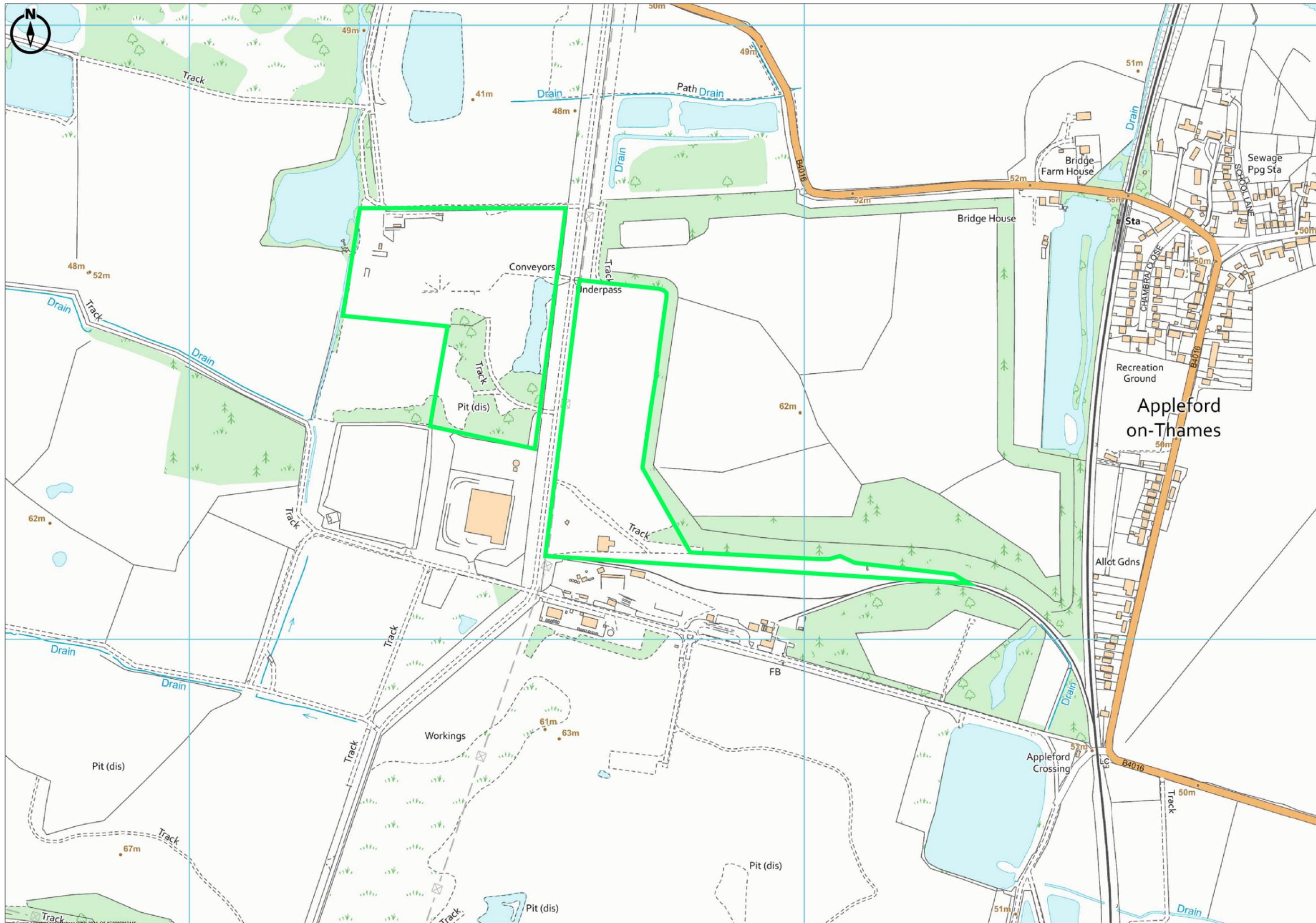
7.	<p>Once the follow up audit has been completed, the Site Manager will ensure that the complaint and any action taken, and the effectiveness of that action are recorded in the Environmental Management System.</p> <p>This record shall also note any amendments to procedures, both environmental and health &amp; safety, which may be required following the investigation.</p> <p>The record shall be kept in the site office at all times or if it is an electronic record, it will be accessible from the site.</p>	<p>Site Manager or appropriately trained operator</p>	<p>Within two weeks of receipt of corrective action(s) being implemented.</p>
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## Drawings

APP/B066441/PER/01 – Permit Boundary Plan

APP/B066441/REC/01 – Environmental Receptor Plan

APP/B066441/LAY/01 - Site Layout Plan



Client:  
Hanson Quarry Products

Project: Appleford Recycling Facility

Title: Permit Boundary Plan

Drawing No: APP/B066441/PER/01

Created: GA

Checked: LS

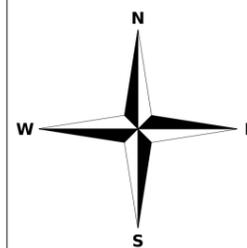
Date: 15/05/2024

Version: 1

Scale: 1:25,000

Key:

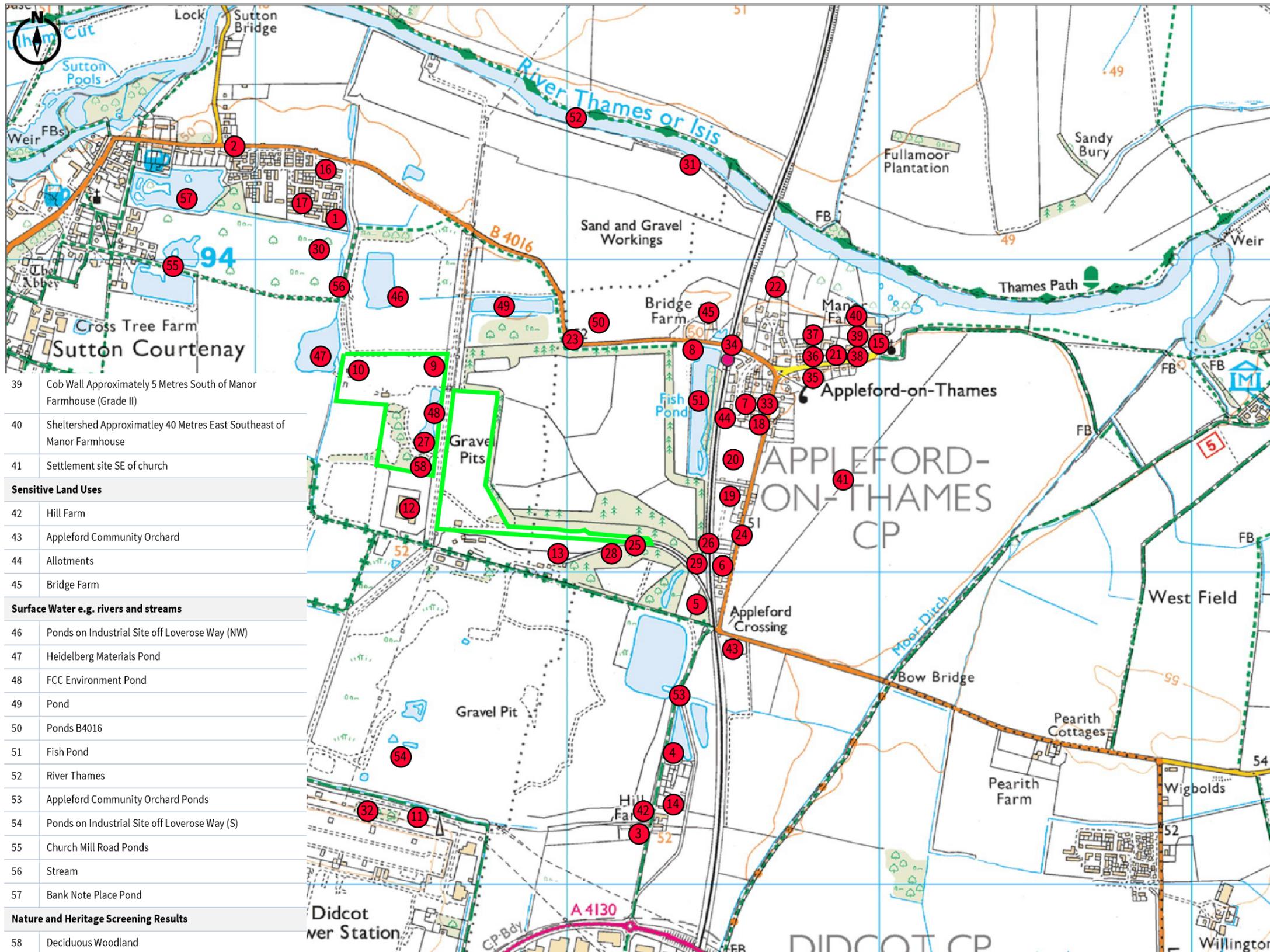
ENVIRONMENTAL PERMIT BOUNDARY



2nd Floor,  
11 York Street,  
Manchester,  
M2 2AW

+44 161 874 4659





39	Cob Wall Approximately 5 Metres South of Manor Farmhouse (Grade II)
40	Sheltershed Approximatley 40 Metres East Southeast of Manor Farmhouse
41	Settlement site SE of church
<b>Sensitive Land Uses</b>	
42	Hill Farm
43	Appleford Community Orchard
44	Allotments
45	Bridge Farm
<b>Surface Water e.g. rivers and streams</b>	
46	Ponds on Industrial Site off Loverose Way (NW)
47	Heidelberg Materials Pond
48	FCC Environment Pond
49	Pond
50	Ponds B4016
51	Fish Pond
52	River Thames
53	Appleford Community Orchard Ponds
54	Ponds on Industrial Site off Loverose Way (S)
55	Church Mill Road Ponds
56	Stream
57	Bank Note Place Pond
<b>Nature and Heritage Screening Results</b>	
58	Deciduous Woodland

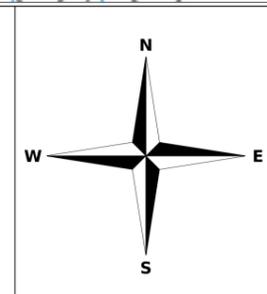
ID	Receptor
<b>Domestic Dwellings</b>	
1	Skylark Fields Estate
2	Appleford Road Estates
3	Residential Property
4	Hartwright House
5	House adjacent to Railway
6	Residencies off B4016
7	Properties of Appleford
8	Property of B4016
<b>Commercial and Industrial Premises</b>	
9	FCC Environment
10	Heidelberg Materials Ready-mixed Concrete
11	Loverose Way Industry (Didcot Power Station)
12	FCC Recycling Appleford Sidings
13	FCC Sutton Courtenay
14	AJH Vehicle Repairs
15	Industrial and Commercial Properties of Appleford
16	Industry (The Hawthorns)
<b>Schools / Hospitals / Shops/Amenities</b>	
17	Shops and Amenities of the Skylark Fields Estate
18	Shops and Amenities of Appleford
19	Appleford Village Hall
<b>Recreation</b>	
20	Appleford Recreation Ground and Football Field
21	Abbingdon Music Centre
22	Tennis Court
<b>Highways/Minor Roads/Railways</b>	
23	B4016 Appleford Road (N)
24	B4016 Main Road (E)
25	Railway
26	Railway
<b>Protected Habitats</b>	
27	FCC Appleford Deciduous Woodland
28	FCC Sutton Courtenay Deciduous Woodland
29	Railway Deciduous Woodland
30	Bank Note Place Deciduous Woodland
31	River Thames Deciduous Woodland
32	Loverose Way Deciduous Woodland
<b>Listed Buildings and Scheduled Monuments</b>	
33	Elm Hayes (Grade II)
34	Road Bridge Over Railway Track (Grade II)
35	Holywell Cottage (Grade II)
36	Manor Farm Cottages (Grade II)
37	The Tythe Barn and Eyston Barn (Grade II)
38	The Thatched Cottage and Attached Cob Wall (Grade II)

Client: Hanson Quarry Products	Created: GA
	Checked: LS
Project: Appleford Recycling Facility	Date: 08/07/2024
Title: Environmental Receptor Plan	Version: 1
Drawing No: APP/B066441/REC/01	Scale: 1:25,000

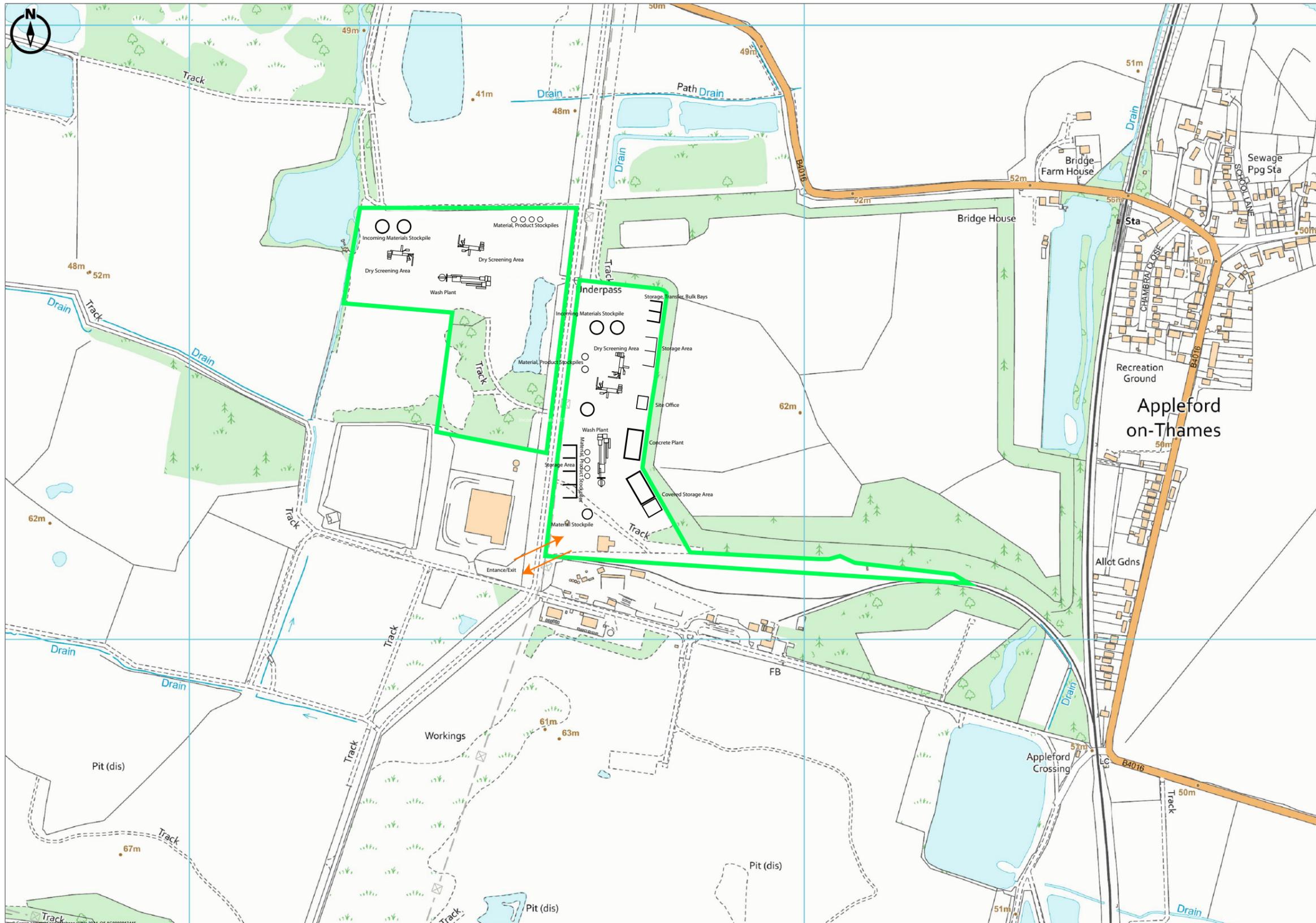
Key:

ENVIRONMENTAL PERMIT BOUNDARY

ENVIRONMENTAL RECEPTORS



2nd Floor,  
11 York Street,  
Manchester,  
M2 2AW  
+44 161 874 4659



Client:  
Hanson Quarry Products

Created: GA  
Checked: LS

Project: Appleford Recycling Facility

Date: 28/06/2024

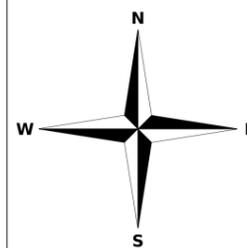
Title: Site Layout Plan

Version: 1

Drawing No: APP/B066441/LAY/01

Scale: 1:25,000

Key:  
 ENVIRONMENTAL PERMIT BOUNDARY



2nd Floor,  
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Manchester,  
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+44 161 874 4659



## Appendix A – Proposed Waste Types

**Table A1: Physical Treatment Facility Waste Types**

<b>EWC Code</b>	<b>Description</b>
<b>01</b>	<b>WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>
<b>01 04</b>	<b>Wastes from physical and chemical processing of non-metalliferous minerals</b>
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	Waste sand and clays
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>
<b>10 01</b>	<b>Wastes from power stations and other combustion plants (except 19)</b>
10 01 01	Bottom ash and slag only
10 01 02	Pulverised fuel ash only
<b>10 11</b>	<b>Waste from manufacture of glass and glass products</b>
10 11 12	Clean glass other than those mentioned in 10 11 11
<b>10 12</b>	<b>Wastes from manufacture of ceramic goods, bricks, tiles and construction products</b>
10 12 08	Waste ceramics, bricks, tiles and construction products (after thermal processes)
<b>10 13</b>	<b>Wastes from manufacture of cement, lime and plaster and articles and products made from them</b>
10 13 14	Waste concrete only
<b>15</b>	<b>WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>Packaging (including separately collected municipal waste packaging)</b>
15 01 07	Clean glass only
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
<b>17 01</b>	<b>Concrete, bricks, tiles and ceramics</b>
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>17 02</b>	<b>Wood, glass and plastic</b>
17 02 02	Clean glass only
<b>17 03</b>	<b>Bituminous mixtures, coal tar and tarred products</b>
17 03 02	Road base and road planings (other than those containing tar) only
<b>17 05</b>	<b>Soil (including excavated soil from contaminated sites), stones and dredging spoil</b>
17 05 04	Soil and stones other than those mentioned in 17 05 03
17 05 08	Track ballast, soil and stones other than those mentioned in 17 05 07
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>Separately collected fractions (except 15 01)</b>
20 01 02	Clean glass only

<b>20 02</b>	<b>Garden and park wastes (including cemetery waste)</b>
20 02 02	Soil and stones

**Table A2: Proposed Soil Washing Activity Waste Types**

<b>EWG Code</b>	<b>Description</b>	<b>Restriction</b>
<b>01</b>	<b>WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS</b>	
<b>01 04</b>	<b>Wastes from physical and chemical processing of non-metalliferous minerals</b>	
01 04 08	Waste gravel and crushed rocks other than those mentioned in 04 04 06	
01 04 09	Waste sand and clay	
01 04 13	Wastes from stone cutting and sawing other than those mentioned in 01 04 07	
<b>10</b>	<b>WASTES FROM THERMAL PROCESSES</b>	
<b>10 11</b>	<b>Wastes from manufacture of glass and glass products</b>	
10 11 12	Waste that as waste glass other than those mentioned in 10 11 11	
<b>10 12</b>	<b>Wastes from manufacture of ceramic goods, bricks, tiles and construction products</b>	
10 12 08	Waste ceramics, brick, tiles and construction products (after thermal processing)	
<b>10 13</b>	<b>Wastes from manufacture of cement, lime and plaster and articles and products made from them</b>	
10 13 14	Waste that as waste concrete and concrete sludge	
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>	
<b>17 01</b>	<b>Concrete, bricks, tiles and ceramics</b>	
17 01 01	Concrete	Selected C&D waste only

17 01 02	Bricks	Selected C&D waste only
17 01 03	Tiles and ceramics	Selected C&D waste only
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	Selected C&D waste only. Metal from reinforced concrete must have been removed.
<b>17 03</b>	<b>Bituminous mixtures, coal tar and tarred products</b>	
17 03 02	Bituminous mixtures other than those mentioned in 17 03 01	
<b>17 05</b>	<b>Soil (including excavated soil from contaminated sites), stones and dredging spoil</b>	
17 05 04	Soil and stones other than those mentioned in 17 05 03	Excluding topsoil, peat; excluding soil and stones from contaminated sites
17 05 06	Dredging spoil other than those mentioned in 17 05 05*	
17 05 08	Track ballast other than those mentioned in 17 05 07*	
<b>17 09</b>	<b>Other construction and demolition wastes</b>	
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	
<b>19</b>	<b>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</b>	
<b>19 01</b>	<b>Wastes from incineration or pyrolysis of waste</b>	
19 01 02	Ferrous materials removed from bottom ash	
19 01 11*	Waste that as bottom ash and slag containing hazardous substances	
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11	
19 01 14	Fly ash other than those mentioned in 19 01 13	
19 01 16	Boiler dust other than those mentioned in 19 01 15	
19 01 18	Pyrolysis wastes other than those mentioned in 19 01 17	
19 01 19	Sands from fluidized beds	

<b>19 02</b>	<b>Wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>	
19 02 06	Waste that as sludges from physico/chemical treatment other than those mentioned in 19 02 05	
<b>19 12</b>	<b>Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>	
19 12 09	Minerals only	Wastes from the treatment of waste aggregates that are otherwise naturally occurring minerals. Does not include fines from treatment of any non-hazardous waste or gypsum from recovered plasterboard.
19 12 12	Other wastes (including mixtures of materials) from other mechanical treatment of wastes other than those mentioned in 19 12 11	Including but not limited to IBAA
<b>19 13</b>	<b>Wastes from soil and groundwater remediation</b>	
19 13 02	Solid wastes from soil remediation other than those mentioned in 19 13 01	
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>	
<b>20 02</b>	<b>Garden and park wastes (including cemetery waste)</b>	
20 02 02	Soil and stones	Only from garden and parks waste; excluding topsoil, peat.

## Appendix B – Complaints Form

Dust complaint report form	Date:	Ref. No.
Name and address of complainant		
Tel no. of complainant		
Time and date of complaint		
Date, time and duration of offending dust		
Weather conditions (e.g., dry, rain, fog, snow)		
Wind strength and direction (e.g. light, steady, strong, gusting)		
Complainant's description of dust		
Has complainant any other comments about the offending dust?		
Any other previous known complaints relating to installation (all aspects, not just dust)		
Any other relevant information		
Potential dust sources that could give rise to the complaint		
Operating conditions at the time offending dust occurred		
Action taken:		
Final outcome:		
Form completed by	Signed	

## Appendix C - Daily Site Inspection Log

<b>Date</b>	
<b>Name</b>	
<b>Observations</b>	
<b>Actions</b>	
<b>Signature</b>	