

# ENVIRONMENTAL RISK ASSESSMENT

Arnolds Farm, Ongar Road, Stapleford Tawney, Romford, Essex, RM4 1RD

**Essex Grab Hire Limited**

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# **1 Introduction**

1.1 This Environmental Risk Assessment considers the potential and actual risks associated with the use of the site at Arnolds Farm, Ongar Road, Stapleford Tawney, Romford, Essex, RM4 1RD as a waste facility that will accept inert and CDE wastes.

1.2 The site will be operated by Essex Grab Hire Limited in accordance with a fully comprehensive Environmental Management System (EMS) and Environmental Permit, regulated by the Environment Agency (EA).

1.3 All site staff should be provided with a copy of this Environmental Risk Assessment and be aware of where it is located on site.

1.4 All environmental risks identified in this document should be acted upon accordingly by site management to ensure all environmental risks can be appropriately managed/controlled.

1.5 This document primarily considers environmental risks associated with the site. This does not aim to provide detailed Health and Safety risk assessments as required separately through the necessary legislation.

1.6 Specified waste management operations include waste disposal and waste recovery operations listed Annex IIA and IIB of The Waste Framework Directive 2008/98/EC and are listed in summary below:

R3: Recycling or reclamation of organic substances.

R5: Recycling or reclamation of other inorganic materials.

R13: Storage of waste pending recovery.

1.7 The EP is required for the storage prior to removal and treatment of waste. Waste treatment processes on site may include the following:

- Sorting (with loading shovel/360° excavator or by hand)

- Screening (by using appropriate mechanical screening plant and equipment)
- Separation (by using appropriate mechanical screening plant and equipment)
- Crushing (by using appropriate mechanical plant and equipment)
- Blending (by loading shovel / 360° tracked excavator)

## **2 Site Receptors**

- 2.1 A Sensitive Receptors Plan is shown on Drawing No. 3074-ARN-AGG-04 which show all potentially sensitive receptors with 1 kilometre from the regulated facility.
  
- 2.2 The site is located within the Coastal and Floodplain Grazing Marsh.

## **3 Environmental Risk Assessment Model**

### **3.1 Fundamental considerations**

3.1.1 **Source/Hazard:** A property or situation that in particular circumstances could lead to harm.

3.1.2 **Consequences:** The adverse effects or harm as the result of realising a hazard which causes the quality of human health or the environment to be impaired in the short or long term.

3.1.3 **Risk:** A combination of the probability of occurrence of a defined hazard and the magnitude of the consequences of the occurrence.

### **3.2 Pathway**

3.2.1 Important in the assessment of a particular risk(s) and to inform the subsequent management of the risk(s) is the identification of the pathway(s) through which the risk may affect the identified receptor(s). The following are examples of pathways:

- Air
- Ground
- Water
- Direct contact / exposure



### 3.3 **Consequences**

3.3.1 The following table highlights the consequences of the hazard(s) identified and the abbreviations for each as used in the Risk Assessment Table in Section 3:

<b>Abbreviation</b>	<b>Consequences</b>
A	MINOR INJURY
B	MAJOR INJURY
C	DEATH
D	AIR POLLUTION
E	WATER POLLUTION
F	POLLUTION OF LAND

### 3.4 **Effects of consequences**

3.4.1 In order to quantify the level of risk and identify the appropriate management procedures, the potential effects must be considered, as outlined in the table below:

<b>Abbreviation</b>	<b>Effect of Consequences</b>	<b>Management Required?</b>
S	SEVERE	In all cases
Mo	MODERATE	In most cases
Mi	MILD	Occasionally
N	NEGLIGIBLE	No

*Note: "Management" is the action required to reduce the risk of a hazard causing a problem on site. Contingency measures are procedures which are in place to reduce the consequences of a hazard.*

3.5 **Risk estimation and evaluation (probability/frequency of occurrence of hazard)**

3.5.1 The following table allows the likelihood of an occurrence of an identified risk to be assessed:

	Probability	Evaluation
1	Very likely	Could occur during any working day
2	Likely	Could occur regularly
3	Possible	Event possible
4	Unlikely	Event very unlikely

3.6 **Risk assessment outcome (combination of probability & consequence)**

3.6.1 The following table shows the resultant risk of an identified hazard or potential situation. This uses the hierarchy of both probability and consequence to assess the level of risk. The level of risk determines what level of management would be required in order to reduce the risk of occurrence and/or scale.

		Consequence			
		S	Mo	Mi	N
Probability	1	High	High	Medium	Low
	2	High	Medium	Low	Near-Zero
	3	Medium	Low	Near-Zero	N/A
	4	Low	Near-Zero	N/A	N/A

3.6.2 Where the risk assessment outcome is high, first-level management of the risk is essential, i.e. removal of hazard, implementation of major infrastructure/structural design measures to contain the risk/hazard and company policy changes to incorporate the management of the risk. All risk management measures must be supplemented with detailed induction training, spot training and tool-box talks to ensure all site staff and users are made fully aware of the risk/hazard, all potential consequences and necessary management and contingency procedures.

- 3.6.3 Where the risk assessment outcome is medium, the management of the risk should be tackled by management or delegates. If removal of the hazard is not possible, management will normally be met through implementing minor structural design measures or by imposing procedures for the prevention of occurrences which will be conveyed to all site staff through the appropriate training, including any contingency measures/procedures.
- 3.6.4 Where the risk assessment outcome is low, the management of the risk can be done wholly through appropriate training to site staff including any contingency measures/procedures.
- 3.6.5 Where the risk assessment outcome is near-zero, site staff should be made aware of the possibility of an occurrence and contingency measures should be readily available to all staff should they be required.

## **4 Risk assessment table**

- 4.1 The following pages contain the site-specific risk assessment for the site with appropriate remedial actions, recommendations and comments included for each identified hazard, potential contaminant or situation.
- 4.2 The table also contains references to the appropriate section(s) of the site's EMS for additional management procedures.
- 4.3 As discussed in Section 3.6 above, all situations which identify a risk from Low –High should be incorporated into the staff/visitor training schedule, where appropriate and acted on as required.

*SEE TABLES BELOW*

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
DUST / PARTICULATES	<p>SITE SURFACES (DRY AND WINDY WEATHER)</p> <p>TREATMENT OF WASTE BY MECHANICAL PLANT</p> <p>LOADING OF WASTE USING MOBILE PLANT</p> <p>STORAGE OF 'DUSTY' WASTE INCLUDING PRE AND POST TREATED MATERIAL</p> <p>TRACKING OF DUST FROM MOBILE PLANT</p> <p>POOR HOUSEKEEPING</p> <p>DRY/WARM WEATHER CONDITIONS</p>	AIR	<p>SITE PERSONNEL/ VISITORS</p> <p>SURROUNDING SITE USERS/OCCUPIERS</p> <p>SURFACE WATER</p> <p>FLORA &amp; FAUNA</p> <p>COASTAL AND FLOODPLAIN GRAZING MARSH</p>	A, B, D, E	MO	2	LOW	<p>POTENTIALLY DUSTY LOADS SHEETED ON ARRIVAL AND EGRESS FROM THE SITE.</p> <p>WASTES ARE PRE-SPRAYED BEFORE BEING LOADED INTO PROCESSING PLANT AND EQUIPMENT (I.E. CRUSHING AND SCREENING PLANT) TO REDUCE THE RISK OF DUST GENERATION DURING PROCESSING OPERATIONS.</p> <p>THE OPERATOR ALSO HAS THE USE OF A WATER BOWSER WHICH IS USED FOR DUST SUPPRESSION AND DURING PERIODS OF DRY/WINDY WEATHER.</p> <p>DROP HEIGHTS WILL BE KEPT TO A MINIMUM.</p> <p>CONTINUOUS MONITORING REGIME IN PLACE TO IDENTIFY ANY POTENTIAL FOR DUST LEAVING SITE BOUNDARY.</p> <p>COMPLAINTS PROCEDURE IN EMS IN PLACE.</p> <p>CLEANING OF ANY SPILLAGES USING WET CLEANING METHODS.</p> <p>DURING TIMES OF EXTREME WIND, THE PLANT WILL CEASE TO OPERATE.</p> <p>THE SITE HAS A DUST MANAGEMENT PLAN IN PLACE WHICH COVERS ALL POTENTIAL DUST SOURCES AND MITIGATION MEASURES (DOC REF: 3074-ARN-AGG-H).</p>
ODOUR	<p>STORED WASTES</p> <p>POOR HOUSEKEEPING</p> <p>REJECTED WASTE</p>	AIR	<p>SITE PERSONNEL/ VISITORS</p> <p>SURROUNDING SITE USERS/OCCUPIERS</p>	A, D	MI TO MO	3	LOW TO NEAR ZERO	<p>STRICT WASTE ACCEPTANCE PROCEDURES TO IDENTIFY POTENTIALLY ODOROUS WASTES AND INITIATE CONTAINMENT.</p> <p>THE SITE DOES NOT RECEIVE ANY WASTE TYPES WHICH WOULD BE REGARDED AS HAVING SIGNIFICANT ODOUR POTENTIAL.</p> <p>REJECTED WASTES TO BE REMOVED OFF SITE.</p> <p>COMPLAINTS PROCEDURE IN PLACE.</p>

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
LITTER	<p>PRE-PROCESSING STOCKPILE</p> <p>UNSHEETED / POORLY SHEETED SKIPS ON DELIVERY VEHICLES</p> <p>LOOSE/MATERIAL</p> <p>POOR HOUSEKEEPING</p>	AIR	<p>SURFACE WATER</p> <p>SURROUNDING LAND / ADJACENT SITES</p> <p>REDUCTION IN VISUAL AMENITY</p> <p>INGESTION HAZARD FOR WILDLIFE</p> <p>COASTAL AND FLOODPLAIN GRAZING MARSH</p>	A TO C E,F	MI TO MO	3	LOW TO NEAR ZERO	<p>ALL DRIVERS WILL ENSURE THEIR SKIPS / CONTAINERS ARE SECURELY SHEETED / CONTAINED PRIOR TO CARRIAGE OF WASTE LOADS.</p> <p>DAILY INSPECTIONS OF THE SITE AND AREAS IN THE IMMEDIATE VICINITY OF THE SITE BOUNDARY FOR LITTER.</p> <p>ALL LIGHT WASTE / LITTER WILL BE PLACED INSIDE A SEALED SKIP.</p> <p>THE PHYSICAL PROPERTIES OF THE WASTE TYPES HANDLED AT THE SITE WILL NOT RESULT IN LITTER – CAN ONLY BE A RESULT OF NON-CONFORMING WASTE(S) – WASTE ACCEPTANCE AND HANDLING PROCEDURES IN PLACE TO PREVENT OCCURENCES</p>

NOISE/VIBRATION	<p>PLANT AND MACHINERY</p> <p>OPERATING TREATMENT PLANT</p> <p>TIPPING / LOADING WASTE INTO VEHICLES</p>	AIR	<p>SITE PERSONNEL / VISITORS</p> <p>SURROUNDING SITE USERS / OCCUPIERS</p> <p>RESIDENTIAL RECEPTORS</p> <p>COASTAL AND FLOODPLAIN GRAZING MARSH</p>	A, D	MO	3	LOW	<p>DROP HEIGHTS WILL BE KEPT TO A MINIMISE NOISE / VIBRATION.</p> <p>ONLY OPERATE DURING THE HOURS LISTED IN THE EMS.</p> <p>MANAGEMENT WILL ENSURE THAT ALL LOADING PLANT OPERATED IS FUNCTIONING SUITABLY THROUGH PREVENTATIVE MAINTENANCE AND DAILY CHECKS TO ENSURE EFFECTIVE OPERATION, I.E. MOVING PARTS TO BE REGULARLY LUBRICATED.</p> <p>OPERATIVES WILL BE INFORMED TO TURN OFF ENGINES WHEN THE PLANT IS NOT IN USE ('NO-IDLING' POLICY) AND NO REVVING OF ENGINES WILL BE PERMITTED AT THE SITE.</p> <p>ANY MALFUNCTIONS IN PLANT I.E. MISSING SCREWS/BOLTS WHICH RESULT IN EXCESSIVE NOISE WILL BE DECOMMISSIONED UNTIL AN ALTERNATIVE LOADING PLANT SOURCED.</p> <p>COMPLAINTS PROCEDURE IN PLACE.</p> <p>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.</p> <p>IN THE EVENT OF MAJOR REPAIR WORK BEING UNDERTAKEN WHICH IS LIKELY TO CAUSE SIGNIFICANT NOISE AND DISRUPTION, NEIGHBOURING RESIDENTS AND THE LOCAL PLANNING AUTHORITY WILL BE NOTIFIED IN ADVANCE.</p> <p>THE SITE IS LOCATED WITHIN A WORKING FARM WITH THE STAPLEFORD AIRFIELD IMMEDIATELY TO THE SOUTH WHICH IS AN OPERATIONAL AIRFIELD WHICH HAS CONTINUOUS PRIVATE AND COMMERCIAL FLIGHTS ALONG WITH A HELICOPTER CHARTER TO THE WESTERN SIDE OF THE AIRFIELD.</p> <p>ADJACENT OPERATIONS I.E. THE WORKING FARM, AIRFIELD AND COMMERCIAL UNITS WILL ALSO HAVE CONSTANT VEHICLE MOVEMENTS THROUGHOUT THE DAY WHICH OFFSET NOISE GENERATED BY ONSITE OPERATIONS. IN ADDITION THE WORKING FARM WILL BE OPERATING BEFORE AND AFTER THE HOURS OF OPERATION FOR THE REGULATED FACILITY AND WILL THEREFORE NOT BE AFFECTED BY THE ACTIVITIES CARRIED OUT ON SITE.</p> <p>THE SITE IS SCREENED BY &gt;3M HIGH BUNDING AND BUILDINGS (RELATING TO THE FARMING ACTIVITIES WHICH ARE OWNED AND OCCUPIED BY THE OPERATOR'S LANDLORD) WHICH WILL REDUCE NOISE LEVELS BEYOND THE SITE BOUNDARY. FURTHERMORE, THE NEAREST RESIDENTIAL RECEPTOR IS &gt;400M FROM THE SITE WHICH, WITH THE IMMEDIATE SCREENING OF THE SITE AS SET OUT ABOVE (EVEN UNDER FREE-FIELD CONDITIONS), IS NOT CONSIDERED TO BE WITHIN THE ZONE OF INFLUENCE FOR THE REGULATED FACILITY.</p>
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Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
								THE WASTE ALONG THE SOUTHERN BOUNDARY IS STORED WITHIN 3M HIGH CONCRETE BAYS WHICH WILL PROVIDE FURTHER SCREENING.
VERMIN (LEPTOSPIROSIS ETC.)	STORED PUTRESCIBLE/ BIODEGRADABLE WASTES	WATER, DIRECT CONTACT WITH WASTE	SITE PERSONNEL/ VISITORS SURROUNDING SITE USERS/OCCUPIERS	A TO C	MI TO MO	3	LOW	WEAR PPE - GLOVES AND MASKS AS APPROPRIATE.  SITE INSPECTIONS DAILY.  ANY WASTES CONSIDERED UNSUITABLE AFTER DEPOSIT WILL BE ASSIGNED TO THE QUARANTINE/REJECTED SKIP.  THE SITE DOES NOT RECEIVE ANY WASTE TYPES WHICH WOULD BE REGARDED AS PUTRESCIBLE/ BIODEGRADABLE.
FIRE - SMOKE / PARTICULATES	PLANT EXHAUSTS  STORAGE OF WASTES	AIR, DIRECT CONTACT	SITE PERSONNEL/ VISITORS  SURROUNDING SITE USERS/OCCUPIERS PUBLIC  SURFACE WATER  COASTAL AND FLOODPLAIN GRAZING MARSH	A TO F	MI TO S	3	LOW TO NEAR ZERO	NO COMBUSTIBLE WASTES ACCEPTED ON SITE.  NO SMOKING OR FIRES ON PERMITTED SITE.  GOOD SITE SECURITY.  PREVENTATIVE MAINTENANCE PROCEDURES FOR ON-SITE PLANT AND VEHICLE FLEET.
VEHICLE COLLISION/ ACCIDENT	MUD ON ROADS FROM WASTE STORAGE & VEHICLE BODIES POOR VISIBILITY	DIRECT CONTACT	VEHICLE USERS  PEDESTRIANS  ANIMALS	A TO F	MI TO S	3	LOW	GOOD HOUSEKEEPING/ VEHICLE MANAGEMENT.  STOCKPILE MANAGEMENT.  WEAR PPE – HIGH VISIBILITY JACKET AS APPROPRIATE.  AN ACCIDENT LOGBOOK SHOULD BE KEPT FOR ALL INCIDENTS.  ENCOURAGEMENT FOR STAFF FOR GREATER NUMBER OF “ACCIDENT-FREE DAYS” TO ENCOURAGE A SAFER WORKING ENVIRONMENT.  HSE COMPLIANT RISK ASSESSMENTS FOR ALL SITE ACTIVITIES TO IDENTIFY SITUATIONS WHICH MAY LEAD TO HARM FOR SITE USERS (EMPLOYEES, VISITORS AND MANAGEMENT).

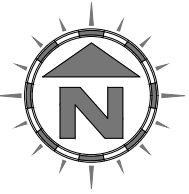


Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
LEACHATE	STORED WASTES	GROUND	SURFACE WATER / GROUNDWATER	E, F	MI TO S	3	LOW	<p>WASTE TYPES STORED EXTERNALLY AT THE SITE ARE STRICTLY NON-LEACHATE FORMING WASTES.</p> <p>ALL WASTES WHICH ARE LIABLE TO GIVE RISE TO CONTAMINATION WILL BE REMOVED FROM SITE IF THE SITE IS NOT SECURE OR OPERATIONS AT THE SITE ARE SUSPENDED.</p> <p>REGULAR CHECKS OF SITE SURFACE INFRASTRUCTURE.</p> <p>ANY SPILLAGES IDENTIFIED WILL BE DEALT WITH IN ACCORDANCE WITH THE SPILLAGE PROCEDURES OUTLINED IN THE EMS.</p>
IMPACT / INJURY	COLLAPSE OF STORED MATERIALS/ FALLING MATERIALS	DIRECT CONTACT	SITE PERSONNEL/ VISITORS	A TO C	MI TO S	3	LOW	<p>STORAGE HEIGHTS WILL BE KEPT TO A MINIMUM AND STORED WASTES/PRODUCTS WILL BE WITHIN BAYS WHERE POSSIBLE.</p> <p>DROP HEIGHTS WILL ALWAYS BE KEPT TO A MINIMUM.</p> <p>APPROPRIATE PPE ISSUED TO ALL SITE STAFF AND AVAILABLE IN THE MAIN SITE OFFICE.</p> <p>STAFF TRAINING AND HANDLING PROCEDURES IN PLACE.</p>
HYDROCARBONS	<p>UNBUNDED FUEL TANKS</p> <p>DRIPS WHEN REFUELLING DURING DELIVERY</p> <p>LEAKAGE FROM STORED DRUMS</p> <p>PLANT FAILURE</p>	GROUND - DIRECT CONTACT, INGESTION INHALATION (OF VOLATILES)	<p>SITE PERSONNEL/ VISITORS</p> <p>SURFACE WATER</p>	A, B, D, E, F	MI TO S	3	LOW	<p>ANY FUEL TANKS (AND PIPEWORK) ARE TO BE STORED WITHIN A BUNDED AREA AND LOCKED WHEN NOT IN USE.</p> <p>ENSURE THAT ALL FUEL DRUMS CONTINUE TO BE STORED SECURELY AND BUNDED TO CONTAIN ALL PIPEWORK AND 110% CAPACITY OF THE TANK.</p> <p>SPILL KITS KEPT CLOSE TO SOURCE(S) OF HAZARDS.</p> <p>PREVENTATIVE MAINTENANCE SCHEDULE FOR PLANT/MACHINERY.</p> <p>ANY SPILLAGES IDENTIFIED WILL BE DEALT WITH IN ACCORDANCE WITH THE SPILLAGE PROCEDURES OUTLINED IN SECTION 5.3 OF THE EMS.</p>

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
RELEASE OF GASES / FUMES / VAPOURS / VOLATILES	MIXING OF WASTE/ CHEMICALS SPILLAGE OF CHEMICALS OVERTURNED VEHICLE PLANT/PLANT FAILURE REACTION BETWEEN STORED WASTES	AIR GROUND WATER CONFINED SPACES	OCCUPIERS/ SITE WORKERS SURROUNDING SITE USERS/OCCUPIERS COASTAL AND FLOODPLAIN GRAZING MARSH	A TO F	MI TO S	3	LOW	ENSURE ANY STORAGE OF HAZARDOUS SUBSTANCES IN PROPERLY DESIGNATED AREAS (I.E. WORKSHOP/STORE OR IN THE SITE OFFICE).  NO HAZARDOUS WASTE ACCEPTED.  PREVENTATIVE MAINTENANCE SCHEDULE FOR PLANT/MACHINERY.  QUARANTINE OF REJECTED (I.E. POTENTIALLY HAZARDOUS) WASTES.

## **Appendix I**

### **Drawings**



**NOTES**

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**REVISION HISTORY**

Rev	Date	Init:	Description:
-	12.6.20	RS	Initial drawing

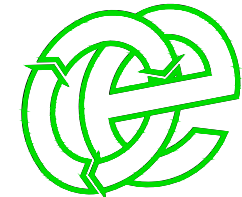
**KEY:**

— Permit boundary

Scale Bar (1:2,500)



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



**DRAWING TITLE**  
PERMIT BOUNDARY PLAN

**CLIENT**  
Essex Grab Hire Ltd

**PROJECT/SITE**  
Essex Grab Hire, Arnolds Farm, Ongar Road, Stapleford Tawney, Romford RM4 1RD

SCALE @ A4	JOB NO	CLIENT NO
1:2,500	001	3074

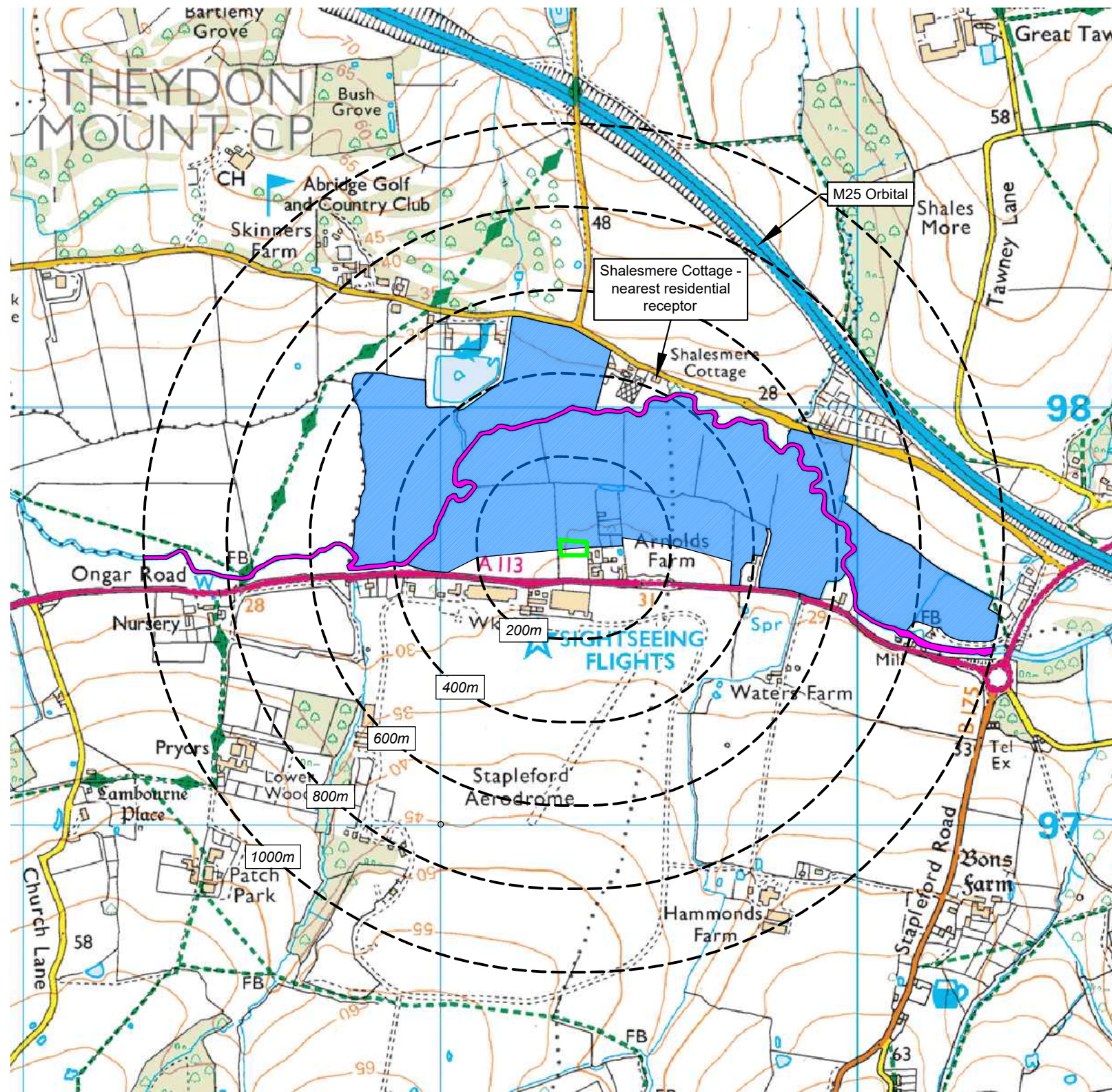
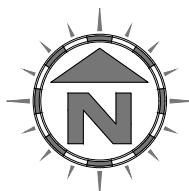
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3074-ARN-AGG-02	-	Issued

DRAWN	CHECKED	DATE
RS	RS	12.06.20

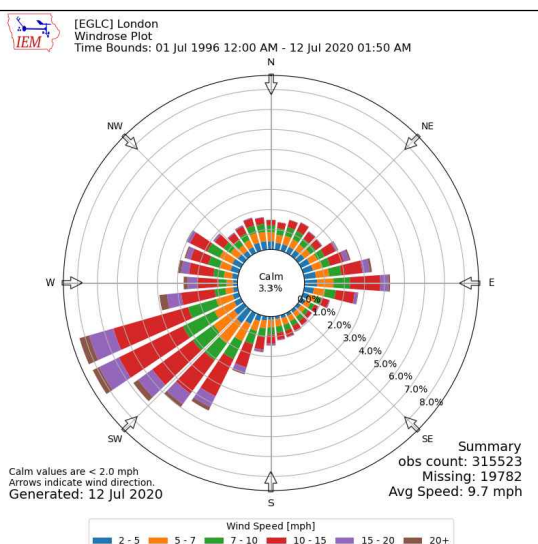
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t: 01606 558833 | e: sales@oaktree-environmental.co.uk

**KEY:**

- Permit boundary
- Surface water body (river / stream / pond / pool / lake)
- Workplaces (includes agriculture industry, commerce and retail)
- Class A roads
- Class B roads
- Class C roads
- Woodland areas
- Coastal and Floodplain Grazing Marsh
- European Eel migratory route (River Roding)



Compass Wind Rose for London City Airport (EGLC) Period 1996-2020  
- source: Iowa State University



**NOTES**

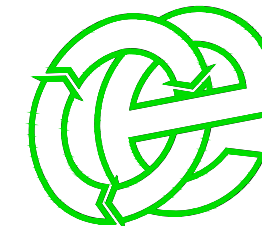
1. Boundaries are shown indicatively.
2. Wind rose data shows the prevailing wind direction to be West-South-Westerly (WSW).

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**REVISION HISTORY**

Rev	Date	Init:	Description:
-	03.11.20	RS	Initial drawing

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



**DRAWING TITLE**  
RECEPTOR PLAN

**CLIENT**  
Essex Grab Hire Ltd

**PROJECT/SITE**  
Essex Grab Hire, Arnolds Farm, Ongar Road, Stapleford Tawney, Romford RM4 1RD

SCALE @ A3	JOB NO	CLIENT NO
1:12,500	001	3074

DRAWING NUMBER	REV	STATUS
3074-ARN-AGG-04	-	Issued

DRAWN	CHECKED	DATE
RS	RS	03.11.20

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Scale Bar (1:12,500)

0 km 500 m 1 km