							Site CTRL GI DATA - Entire NDATA19 data set			ole er 67
Boring Method Cable Percussion		Diamete	or	British Ger	Ground ogical Su	Level (mOD) 47.02	Cilent UR/LCE	British Geological Survey	Job Number Issue 1	
		Location 603355 E 140571 N			Dates 06/10/1994		Engineer RLE	of the second se	Sheet 3/4	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)		Description	Legend	Water
19.80-20.25	D44									
20.70-21.15	U45			150 blows		E E				
21.20-21.65 21.20-21.20 21.20-21.65	PT N=37 D46 D47			5,8/8,9,9,11			55			
nish Geologi 22.20-22.65	al Survey U48			British Get	ogical Sui		*			
22.70-23.15 22.70-22.70 22.70-23.15	PT N=44 D49 D50			7,8/8,9,12,15						
3.70-24.15	U51	7-2		150 blows						
4.25-24.70 4.25-24.25 4.25-24.70	PT N=42 D52 D53	1241		5,9/9,9,12,12					in a	
5.30-25.80	B54					E				
25.80-26.25 25.80-26.25	PT N=43 D55	1110,0000		British Ged 7,8/10,11,10,12	ogical Su					- 100 mm - 100 mm
26.70-27,15	U56			150 blows		التاريخ				
27.20-27.65 27.20-27.20 27.20-27.65	PT N=43 D57 D58			6,7/9,9,12,13		աստեսան				
8.20-28.60	U59			150 blows		F				
8.70-29.07 8.70-28.70 8.70-29.07	PT 50/222 D60 D61			9,11/12,16,22 British Get	logical Su					
9.40-29.85	U62			150 blows			222			
9.90-30.18	PT 50/130			15,10/17,33				months and the second s		
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(BGS) G	ritish Geological Surve						Site CTRL GI DATA - Entire NDATA19 data set			Borehole Number SA3667	
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		Locatio	n 3355 E 14	10571 N	Dates 06/10/1994		Engineer RLE		8	Sheet 4/4	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Fleid Records	Level (mOD)	Depth (m) (Thickness)		Description		Legend	
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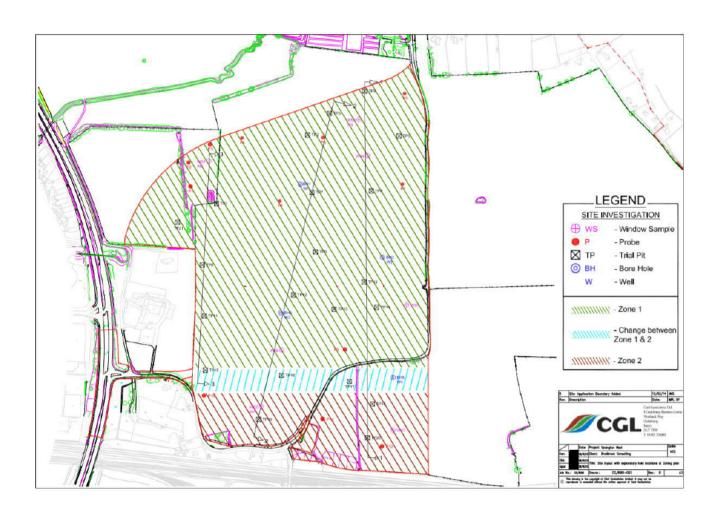
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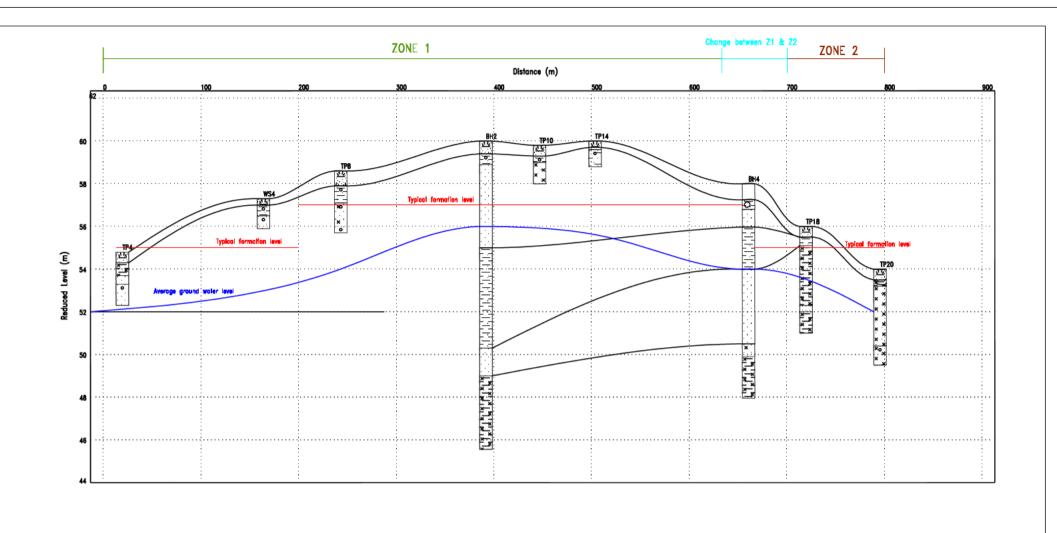
Figure B.13: TR04SW441

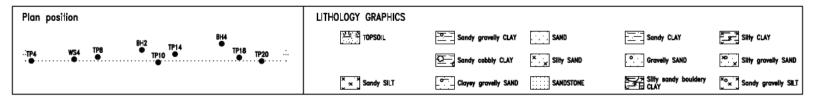
1.20	(855) (British Geological Surve Intural environment rese		L ₀				Site CTRL GI DATA - Entire NDATA19 data set	Boreho Number TT154	er
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### Parents ### Pa	Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	
D1						40.04	E	TOPSOIL.		
A0.84 E 1.40 B1	.50 .50 .50	V1 H1 B1				42.04	E E	Firm dark brown and grey mottled CLAY. (Alluvium) Below 1.15m: becomes light grey and sandy.		The state of the s
V1 Bit Geological Surrey British Geological Surrey	.40	H1 B1	100		Slight goo(1) of		(0.35)	Dark brown medium and coarse SAND with much medium angular to subangular flint gravel and with occasional root fragments. (Alluvium)		
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C. On-site Third-Party Ground Investigation (CGL 2012)

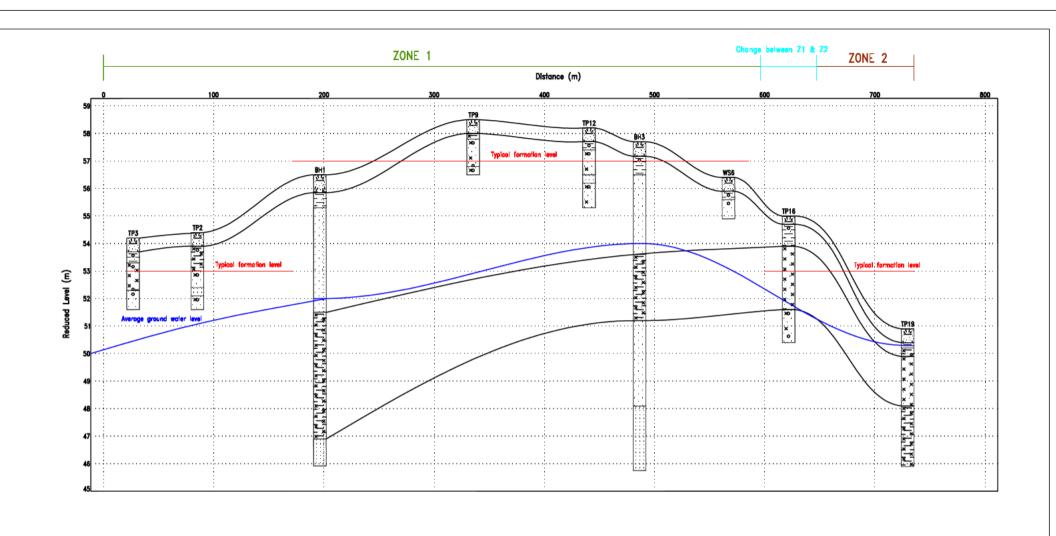


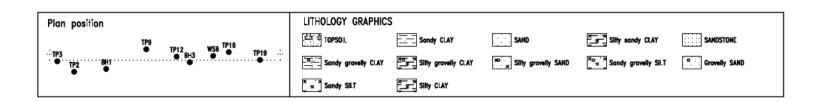




Formation levels based on FFL's given on proposed development plan

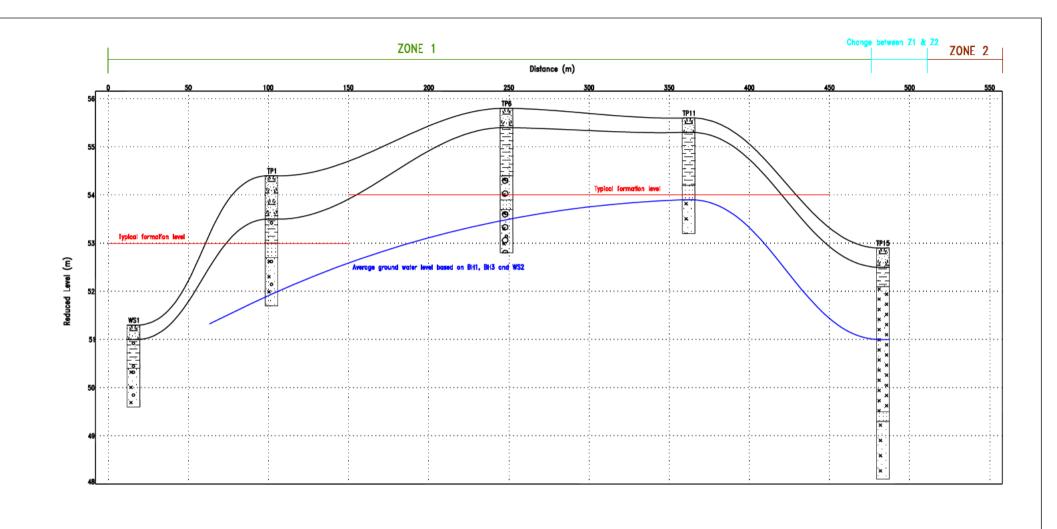
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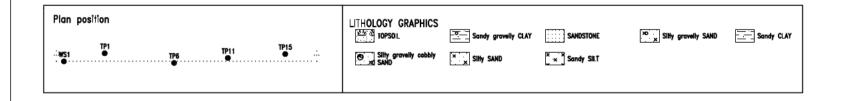




Formation levels based on FFL's given on proposed development plan



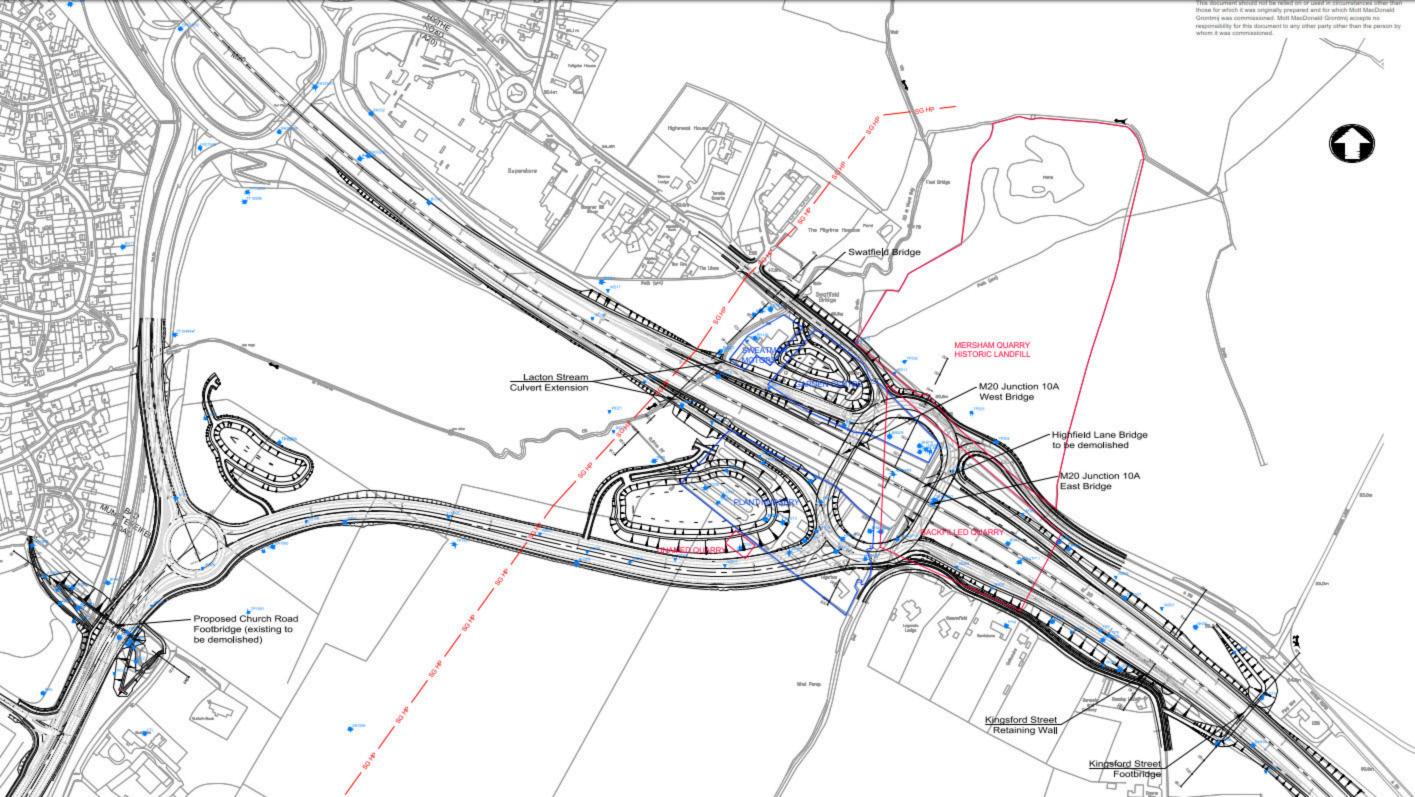




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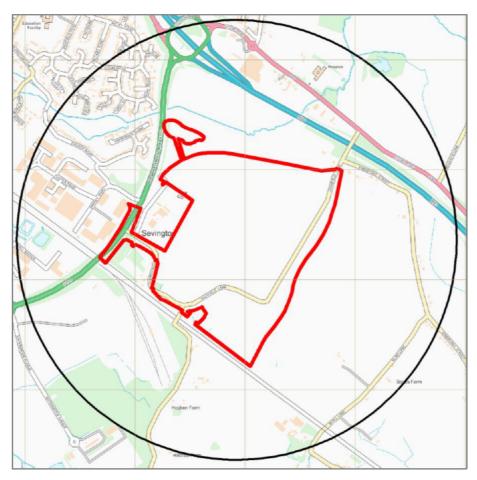
D. Off-Site Third-Party Ground Investigation (URS 2010 and Concept 2015)



E. Preliminary UXO Threat Risk Assessment

PRELIMINARY UNEXPLODED ORDNANCE (UXO) THREAT ASSESSMENT

Meeting the requirements of CIRIA C681 'Unexploded Ordnance (UXO) – A guide for the Construction Industry' Risk Management Framework



PROJECT NUMBER	8270	ORIGINATOR				
VERSION NUMBER	1.0	REVIEWED BY	(23 rd June 2020)			
CLIENT	Mott MacDonald	RELEASED BY	(24 th June 2020)			
STUDY SITE	MOJO Site, TN24 0LD					
RECOMMENDATION	No further action is required to address the UXO risk at this Study Site					















UNEXPLODED ORDNANCE THREAT ASSESSMENT



STUDY SITE

The Study Site is described as "MOJO Site, TN24 OLD", and it is centred on National Grid Reference 603962, 140682.

THREAT POTENTIAL AND RECOMMENDATIONS

The potential for a UXO hazard to occur, and more specifically, the potential for unexploded WWI and WWII ordnance to exist at this site is assessed as being UNLIKELY (Figure 2).

In accordance with CIRIA C681 Chapter 5 on managing UXO risks, 6 Alpha concludes that **NO FURTHER ACTION** is required to address the UXO risk at this Study Site. Should you have any queries, please contact 6 Alpha.



REPORT SUMMARY

During WWII, the Study Site was situated within *East Ashford Rural District* and *Ashford Urban District*, which recorded one and seven High Explosive (HE) bomb strikes per 100 hectares, respectively; both very low levels of bombing.

Luftwaffe aerial reconnaissance photography associated with the Study Site did not identify any primary bombing targets within 1,000m.

Neither Air Raid Precaution (ARP) records nor official bomb damage mapping were available. However, further research of historical records and post-war mapping did not identify any evidence of bomb strikes or bomb damage within the vicinity of the Study Site.

Further research has nonetheless identified evidence that an unexploded WWII projectile was discovered in a field off *Kingsford Street, Mersham* (approximately 585m south-east) on the 3rd November 2016, near to the site of a former Heavy Anti-Aircraft (HAA) Artillery Battery.

As there was no bombing or bomb damage recorded in the Study Site's immediate vicinity during WWII, there is no evidence to suggest that further investigation into UXO is warranted.

USING THIS REPORT

This Preliminary Assessment is designed to inform environmental and construction professionals of the potential threat of military related explosives and/or ordnance on, or in, the vicinity of the Study Site.

This assessment is designed to be employed as a site-screening tool to meet with the requirement of Phase One of the CIRIA UXO Risk Management Framework; there are two broad prospective outcomes; either the threat level requires a detailed threat & risk assessment; or no further action is required. In the former instance we can provide a report within 10 working days (or more quickly upon application).

Two figures accompany the report, the Second World War (WWII) High Explosive (HE) Bomb Density and the final Probability of UXO Encounter. The purpose of this approach is to demonstrate that whilst bomb density statistics give an indication for WWII bombing, they should not be relied upon exclusively to generate a holistic assessment.

For further information, please contact 6 Alpha:

Telephone: +44 (0)2033 713 900

Website: http://www.6alpha.com

Email: enquiry@6alpha.com



UNEXPLODED ORDNANCE THREAT ASSESSMENT



		Data Findings
Threat Source		Detail
(within 1,000m)	Identified	Comments
Airfields/Military Facilities	X	None recorded within 1,000m.
Ordnance Manufacture/Storage	×	None recorded within 1,000m.
WWII Decoy Bombing Sites	X	None recorded within 1,000m.
WWII Defensive Features	✓	An HAA Artillery Battery was located 585m south-east.
WWII Luftwaffe Designated Bombing Targets	X	Luftwaffe aerial photography did not identify any primary bombing targets within 1,000m.
WWII Bomb Strikes Within Study Site Boundary	×	ARP records were not available.
WWII Bomb Strikes Near Study Site Boundary	X	ARP records were not available.
WWII Bomb Damage	×	Official bomb damage mapping was not available.
Abandoned Bomb Register	X	The official abandoned bomb list did not identify any abandoned bombs located within 1,000m.
Potential Threat Sources	×	Further research has not uncovered any potential UXO threat sources associated with the Study Site.
WWII Bombing Density Per 100 Hectares	✓	East Ashford Rural District and Ashford Urban District recorded one and seven HE bomb strikes per 100 hectares, respectively.

IMPORTANT NOTES

- 1. The term 'Preliminary UXO Threat Assessment' has been used to describe this report, to fall in line with the CIRIA C681 guidelines. Whilst the term 'Risk' can be justifiably used at this stage, the reader should note that the 'Consequence' function of 'Risk' is not considered. Should it be required, this would be addressed in the 'Detailed UXO Threat & Risk Assessment' (Stages 2 and 3).
- 2. This report is accurate and up to date at the time of writing.
- 3. The assessment levels have been generated from historical data and third-party sources. Where possible 6 Alpha have sought to verify the accuracy of such data, but cannot be held accountable for inherent errors that may be in third party data sets (e.g. National Archives or library sources).
- 4. 6 Alpha have exercised all reasonable care, skill and due diligence in producing this service.
- 5. Whilst every effort has been used to identify all potential UXO/explosive threats, there were a number of private facilities, which may not have released privately recorded information concerning UXO/explosive threats into the public domain. It is therefore possible that some of the aforementioned sites may not be included within the database.



MOJO SITE, TN24 OLD

BOMB SEARCH

WWII High Explosive Bomb Density





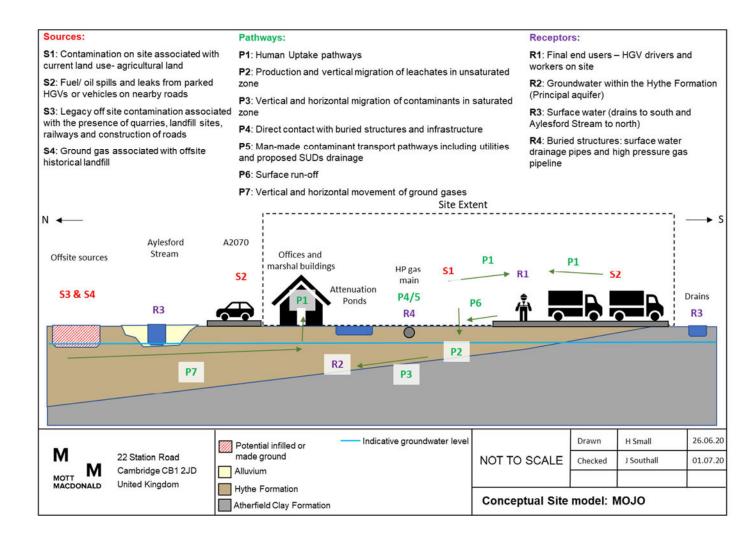
MOJO SITE, TN24 OLD

BOMB SEARCH

Probability of UXO Encounter



F. Conceptual Site Model



G. Qualitative Contamination Assessment

The following Contaminated Land Risk Assessment methodology is based on Construction Industry Research and Information Association (CIRIA) C552 (2001) *Contaminated Land Risk Assessment – A Guide to Good Practice*, in order to quantify potential risk via **risk estimation** and **risk evaluation**, which can be adopted at the Phase I (Desk Study) stage. This will then determine an overall risk category which can be used to identify potential investigation or remedial actions. This methodology uses qualitative descriptors and therefore is a qualitative approach based on desk information. The risk assessment should be refined following receipt of ground investigation data. The methodology requires the classification of:

- The magnitude of the consequence (severity) of a risk occurring
- The magnitude of the **probability** (likelihood) of a risk occurring

The potential consequences of contamination risks occurring at this Site are classified in accordance with Table G.1 below, which is adapted from the CIRIA guidance.

Table G.1: Classification of Consequence

Classification	Definition of Consequence
Severe	Short-term (acute) risks to human health likely to result in "significant harm" as defined by the Environmental Protection Act 1990, part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings / property.
	A short-term risk to a particular ecosystem, or organism forming part of such an ecosystem.
Medium	Chronic damage to Human Health (significant harm as defined in DEFRA, 2012). Pollution of sensitive water resources.
	A significant change in a particular ecosystem, or organism forming part of such an ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures, and services ("significant harm" as defined in the Defra, 2012).
	Damage to sensitive buildings / structures / services or the environment.
Minor	Harm, though not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.).
	Easily repairable effects of damage to buildings, structures, and services.

The probability of contamination risks occurring at this Site will be classified in accordance with Table G.2 below from the CIRIA guidance. Note that for each category, it is assumed that a pollution linkage exists. Where a pollution linkage does not exist, the likelihood is zero, as is the risk

Table G.2: Classification of Probability

Classification	Definition of Probability
High likelihood	There is a pollutant linkage and an event that appears very likely in the short term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur.
	Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.
Low likelihood	There is a pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such an event would take place, and is less likely in the shorter-term.

Classification	Definition of Probability
Unlikely	There is a pollutant linkage, but circumstances are such that it is improbable that an event
- · · · ·	would occur even in the very long-term.

For each possible pollution linkage (source – pathway - receptor) identified, the potential risk can be evaluated based upon the following probability x consequence matrix shown in Table G.3.

Table G.3: Overall Contamination Risk Matrix

			Consequence					
		Severe	Medium	Mild	Minor			
	High likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk			
Doobabilite	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk			
Probability	Low likelihood	Moderate Risk	Moderate / Low risk	Low Risk	Very Low Risk			
	Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk			

Based upon this, CIRIA C552 presents definitions of the risk categories, together with the investigatory and remedial actions that are likely to be necessary in each case, as in Table G.4. These risk categories apply to each pollutant linkage, not simply to each hazard or receptor.

Table G.4: Overall Contamination Risk Matrix

Risk Category	Definition and Likely Actions required
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability Urgent investigation (if not undertaken already) and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, if [it] is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer-term.
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised would at worst be relatively mild.
Very Low	There is a low possibility that harm could rise to a receptor. In the event of such harm being realised it is not likely to be severe.

H. Site Drawings

