

PROJECT MANAGEMENT PLAN

RISK ASSESSMENT FORM

v4.3

Rock & Alluvium

Appendix 3: Contaminated Land Risk Assessment – Additional Controls

Based on BDA Red/Amber/Green Classification [Guidance for Safe Intrusive Activities on Contaminated or potentially Contaminated Land; BDA 2008]

Business Unit	Rock & Alluvium	Location	Contaminated Land CFA Site	Date:	As PMP
HS&S Assessor	William Longhurst	Operation	Piling	Ref No:	Rev v4.3

Section	HAZARDS	PERSONS AFFECTED	RISK			CONTROL MEASURES (List control measures that are provided and those required)	RISK		
			L	S	R		L	S	R
1	Boring through Contaminated Ground	Piling Crew	4	3	H	Protective clothing other PPE to be provided and worn. In accordance with attached schedule. Disposal facilities to be provided by P/C for contaminated clothing. Where high levels of volatile hydrocarbons are present, suitable face masks are to be provided and worn (Filter type A1 or A2 – Code Brown) Showers or good standard washing facilities are to be provided at end of shift after changing from workwear.	2	2	L
2	Spoil Storage and disposal by Principal Contractor by P/C	Other Site workers, general public.	3	2	L	Spoil to be stored as hazardous waste and kept segregated from other waste Soil to be disposed of as hazardous waste.	2	2	L
'LIVE RISKS' TO BE RECORDED BELOW									

High Risk Operation * /NO (delete as required)	Temporary Works * /NO If Yes – refer to STD-HSS-T01	The above control measures have been implemented (if not signed on briefing record) Workplace Manager Date
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SITE CATEGORISATION SYSTEM

NO OPERATION MUST BE CARRIED OUT UNTIL ALL THE CONTROLS MEASURES IDENTIFIED IN THIS ASSESSMENT ARE IN PLACE

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GREEN	Substances that have little potential to cause significant permanent harm to humans. Examples would be uncontaminated natural materials including topsoil, hardcore, bricks, stone, concrete, excavated road materials, glass, ceramics, abrasives, wood, paper, fabrics, cardboard, plastics, metal components, wool, cork, ash, clinker, etc provided that these do not contain other substances that could be significantly harmful to humans. Note that topsoil and sub-soil may be contaminated and that there is a possibility of bonded asbestos being present in otherwise inert areas. In these cases a YELLOW Category applies.
YELLOW	Substances that are not sufficiently harmful to potentially cause death, injury or impairment of health but nevertheless require protection to be worn to ensure that any health issues do not arise. Examples would be waste food, vegetable matter, household and garden waste, leather, tyres, rubber, latex, electrical goods and fittings, , non-toxic metals, bitumen, fuel ash and solidified wastes. Where there is potential for significant volumes of ground gas at concentrations that are toxic, flammable or could cause explosion, then a RED Category should be used.
RED	Substances that could subject persons to risk of death, injury or impairment of health. Examples would be any substances that are corrosive, acidic, carcinogenic, cause skin irritation or respiratory problems, affect the nervous system, affect the organs, etc. See above in respect of ground gas.

Additional PPE to be Issued and Worn	Green	Yellow	Red
Eye protection (safety glasses / goggles)		√	√
Face shield		√	√
Hand protection (type of gloves....PVC.....)	√	√	√
Overalls	√	√	√
Disposable overalls or chemical resistant that can be		√	√
Waterproofs (all-in-one / 2 piece)			√
Disposable waterproofs (type.....)		√	√
Industrial boots (Safety Type)	√	√	√
Wellington boots with sole & toe protection	√	√	√
Respiratory equipment (type.....)		√	√
Site Facilities			
Mobile phone	√	√	√
Barrierred off Area			√
Warning Signs	√	√	√
Changing and Washing Facilities	√	√	√
Decontamination Unit and Washing Facilities			√

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NOTES

- 1 A Greenfield Site would normally be included in the GREEN Category unless there is evidence to indicate a YELLOW Category.
- 2 Indiscriminate dumping (or in the case of older sites, uncontrolled/unlicensed landfilling) may have taken place on a site and this should be taken into consideration when determining the appropriate category.
- 3 Landfill sites or other sites where significant deposits of bound or unbound asbestos occur should have a RED designation. However, other sites may have only very small quantities of asbestos, often present as asbestos cement, which whilst presenting a hazard may not on its own warrant the highest level of protection. In these cases it may be sufficient to simply add water to the borehole or other form of intrusive activities to prevent asbestos fibers becoming airborne and hence available for inhalation and to wear disposable masks suitable for low levels of asbestos.
- 4 The presence of radioactive materials on a site is not included in the above guidance and appropriate references on this should be consulted including regulations.
- 5 A Desk Study and a Risk Assessment must be carried out before the site is categorised (see Section 5.0). As part of the desk study, a site walk over must be undertaken. This should look at both the site and the land usage surrounding the site.
- 6 If the site itself has an indicative classification, eg YELLOW, but it is believed that surrounding site usage may have caused contamination to the site that would be classified as RED, the site classification must be upgraded to RED.
- 7 If after carrying out the Desk Study and reviewing the previous usage there is doubt as to which category should be assigned, the higher of the two categories under consideration should be taken.
- 8 Once the site category has been determined this should lead to requirements for safe working practices and the use of appropriate PPE and RPE.
- 9 If, after a category has been assigned to a site, further information becomes

available that warrants a change of category then the category should be changed accordingly and all site personnel immediately informed. This includes information from the investigation itself.

- 10 If changing a site category results in the required PPE and/or safety equipment not being available then the work must be suspended until they are available.

Revision Log

Rev	Date	Revision
4.0	01/02/22	Issue 09 (BMS2).
4.1	08/04/22	No amendments to this document.
4.1	06/10/22	No amendments to this document.
4.2	06/10/22	Version updated
4.2	29/08/23	No amendments to this document.

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