

Appendix E – Assessment

Asbestos Risk Assessments

Decision Support Tool for Receptor Risk Ranking

Stage 1		Score
Hazard Identification		
Select ACM type (run model for each type to generate 'Worst Case' output)	Dispersed fibres/fibre bundles visible/identified	3
Original form/clearly identifiable products?	Not clearly identifiable as original form insulating boards, coatings, loose fill insulation, lagging	1
Extent of degradation of ACMs	Disaggregated (dominated by loose fibres; extreme degradation in ACM and/or free asbestos fibres)	4
Distribution of Visible Asbestos Across Affected Area	Gross visible contamination by ACMs	4
Asbestos fibre type	Amosite, tremolite, anthophyllite, with/without chrysotile	2
Sub-total		14
Hazard ranking		Medium

No warranty, expressed or implied, or reliance, is provided in relation to the use of this tool.
It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

Project Reference:	GE22715
Site Name:	Satanborough Park School
Client:	Welwyn Park North
Run by:	Martin Cooper
Date:	23/05/2019
Scenario details:	GROUNDWORKERS

Stage 2		Score
Emission Factors		
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Trace quantities - <0.0001 to 0.001 %wt/wt	0
Respirable fibre index for source material	High	4
Best description of primary host material matrix	Made Ground - Recycled Aggregate, Track Ballast	4
Depth to impacted material	Material present at the surface, very likely to be disturbed during routine use of site/works, or by wind	4
Activity type and effect on deterioration of ACMs in-situ/during work	Low intensity, significant deterioration expected	4
Sub-total		0
Exposure ranking		Negligible
Combined hazard and exposure ranking		14 Low

Stage 3		Score
Pathway and Receptor Sensitivity		
Receptor category	Construction/ground investigation	No score required
Site occupancy/duration of exposure	Up to 10 hours in a day (e.g. full time occupational exposure)	3
Receptor age	Adult (>24 and <60)	1
Distance from source of dispersion	In area of disturbance	5
Calculated sub-total ((duration + age) x distance)		20
Receptor ranking		Low
Combined hazard, exposure and receptor ranking		34 Low

Decision Support Tool for Receptor Risk Ranking

Stage 1		Score
Hazard Identification		
Select ACM type (run model for each type to generate 'Worst Case' output)	Dispersed fibres/fibre bundles visible/identified	3
Original form/clearly identifiable products?	Not clearly identifiable as original form insulating boards, coatings, loose fill insulation, lagging	1
Extent of degradation of ACMs	Disaggregated (dominated by loose fibres; extreme degradation in ACM and/or free asbestos fibres)	4
Distribution of Visible Asbestos Across Affected Area	Gross visible contamination by ACMs	4
Asbestos fibre type	Amosite, tremolite, anthophyllite, with/without chrysotile	2
Sub-total		14
Hazard ranking		Medium

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Project Reference:	GE22715
Site Name:	Stanborough Park North
Client:	Welwyn Hatfield Borough Council
Run by:	Martin Cooper
Date:	23/05/2019
Scenario details:	INFANT (UNDER 5)

Stage 2		Score
Emission Factors		
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Trace quantities - <0.0001 to 0.001 %wt/wt	0
Respirable fibre index for source material	High	4
Best description of primary host material matrix	Made Ground - Recycled Aggregate, Track Ballast	4
Depth to impacted material	Material present at the surface, very likely to be disturbed during routine use of site/works, or by wind	4
Activity type and effect on deterioration of ACMs in-situ/during work	Low intensity, significant deterioration expected	4
Sub-total		0
Exposure ranking		Negligible
Combined hazard and exposure ranking		14 Low

Stage 3		Score
Pathway and Receptor Sensitivity		
Receptor category	Public open space or building	No score required
Site occupancy/duration of exposure	< 4 hours in a day (e.g. part-time occupational exposure or public recreational exp	2
Receptor age	Infant (under 5)	4
Distance from source of dispersion	In area of disturbance	5
Calculated sub-total ((duration + age) x distance)		30
Receptor ranking		Medium
Combined hazard, exposure and receptor ranking		44 Medium

Decision Support Tool for Receptor Risk Ranking

Stage 1		Score
Hazard Identification		
Select ACM type (run model for each type to generate 'Worst Case' output)	Dispersed fibres/fibre bundles visible/identified	3
Original form/clearly identifiable products?	Not clearly identifiable as original form insulating boards, coatings, loose fill insulation, lagging	1
Extent of degradation of ACMs	Disaggregated (dominated by loose fibres; extreme degradation in ACM and/or free asbestos fibres)	4
Distribution of Visible Asbestos Across Affected Area	Gross visible contamination by ACMs	4
Asbestos fibre type	Amosite, tremolite, anthophyllite, with/without chrysotile	2
Sub-total		14
Hazard ranking		Medium

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It is contingent on users to satisfy themselves that the output from the tool is relevant and appropriate to the assessment being made.

Project Reference:	GE22715
Site Name:	Stanborough Park North
Client:	Welwyn Hatfield Borough Council
Run by:	Martin Cooper
Date:	23/05/2019
Scenario details:	SCHOOL AGE >5 <16

Stage 2		Score
Emission Factors		
Amount of asbestos fibre in selected ACM/fibre type as % of host material	Trace quantities - <0.0001 to 0.001 %wt/wt	0
Respirable fibre index for source material	High	4
Best description of primary host material matrix	Made Ground - Recycled Aggregate, Track Ballast	4
Depth to impacted material	Material present at the surface, very likely to be disturbed during routine use of site/works, or by wind	4
Activity type and effect on deterioration of ACMs in-situ/during work	Low intensity, significant deterioration expected	4
Sub-total		0
Exposure ranking		Negligible
Combined hazard and exposure ranking		14 Low

Stage 3		Score
Pathway and Receptor Sensitivity		
Receptor category	Public open space or building	No score required
Site occupancy/duration of exposure	< 4 hours in a day (e.g. part-time occupational exposure or public recreational exp	2
Receptor age	School age (>5 and <16)	3
Distance from source of dispersion	In area of disturbance	5
Calculated sub-total ((duration + age) x distance)		25
Receptor ranking		Medium
Combined hazard, exposure and receptor ranking		39 Low