

# Group Visits Risk Assessment – June 2019

<b>Hazard</b>	<b>Affecting</b>	<b>Risk Description</b>	<b>Consequence</b>	<b>Risk Rank</b>	<b>Controls</b>	<b>Residual Risk</b>
Crossing the A6	All individuals visiting the mine including school children and staff, MM staff and general visitors.	Collision with moving traffic	Major or fatal injury.	3x5=15	Staff should lead parties via the pedestrian crossing.	2x5=10
Footpath at side of Fishpond Pub leading to mine	All individuals visiting the mine including school children and staff, MM staff and general visitors.	Good surfaced footpath but very steep and slippery in cold weather.	Severe bruise or abrasion.	4x3=12	Verbal warning given before approaching slope	3x3=9
Temple Road to Temple Mine	All individuals visiting the mine including school children and staff, MM staff and general visitors.	No footpath on Temple Road. Risk of collision with moving traffic.	Major or fatal injury.	3x5=15	Verbal warning given before leaving for mine and on approaching Temple Road	2x5=10
Footpath from road to mine entrance	All individuals visiting the mine including school children and staff, MM staff and general visitors.	Slipping on wet moss or leaves on slope	Severe bruise or abrasion	3x3=9	Verbally advise to use handrail. Sweep path when necessary and treat moss.	2x3=6
Low roof in Temple Mine	All individuals visiting the mine including school children and staff, MM staff and general visitors.	Banging head on rock.	Severe bruise or abrasion	4x3=12	All visitors provided with safety helmets and verbally warned.	4x1=4
Floor surface in mine	All individuals visiting the mine including school children and staff, MM staff and general visitors.	Floor surface is slightly uneven and may be wet and slippery, including on the steps.	Severe bruise/abrasion	4x3=12	Verbal warning, repeated throughout the mine tour	3x3=9

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Radon Gas in mine	MM Staff	High levels of radon are cancer causing with repeated exposure	Fatal illness	3x5=15	Levels of radon are monitored and the time staff spend in the mine is recorded daily	2x5=10
Potential of unstable roof in mine	All individuals visiting the mine including school children and staff, MM staff and general visitors.	Collapse onto individuals in mine	Serious or fatal injury	3x5=15	Mine is inspected daily by staff, weekly by Mine Manager and annually by Mines Inspector. If any instability is suspected the mine would be deemed inaccessible, until rectified. Helmets are worn at all times.	2x5=10
Unstable areas in mine	MM staff occasionally but areas are off-limit	Collapse onto individuals	Serious or fatal injury	2x5=10	These parts of the mine are cordoned off by locked steel gates.	1x5=5
Power Failure	All individuals visiting the mine including school children and staff, MM staff and general visitors.	No immediate risk, but would increase risk of falling	Severe bruising or abrasion	3x3=9	In the event of a mains power cut the emergency lights will automatically illuminate the mine for 30 mins. in which the mine can be evacuated. These are tested monthly. Guide carries torch.	2x3=6
Panning for minerals, in water	All individuals visiting the mine including school children and staff, MM staff and general visitors. Especially children.	Water-born infection	Hospitalisation	3x4=12	Chemicals added to water and physically cleaned out annually. Verbal instructions given to wash hands after panning, there is also a sign warning of need to do this,	2x4=8
Water in panning pools	Very young children	Drowning of very small children	Fatal	2x5=10	Water depth less than 200mm. Children are supervised at all	1x5=5

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					times.	
Gem Stones	Children	Choking/swallowing small stones	Serious/fatal injury	2x5=10	Verbal warning and all children supervised whilst panning	1x5=5
Museum climbing shafts	All museum visitors who use tunnels, especially children.	Falling down ladders	Severe bruising or broken bone	4x3=12	Verbal warning and rubberised areas at base of ladders	3x2=6
Museum Climbing shafts	All museum visitors who use tunnels, especially children	Low ceiling in tunnels	Minor bruise or abrasion to head	4x2=8	Verbal warning. Signage warning.	3x2=6
Museum climbing shafts	All museum visitors who use tunnels, especially children	Legionella in running water	Hospitalisation or fatal illness.	3x5=15	Suitable chemicals are added to the water following a schedule	2x5=10
Rag and chain pump	All museum visitors, especially children.	Heavy moving metal parts	Cut, bruise or break to fingers	3x3=9	Mechanism is behind a guard. Verbal and written warning. Children to be supervised.	2x3=6
Rag and chain pump	All museum visitors, especially children.	Legionella in water	Hospitalisation or fatal illness	3x5=15	Suitable chemicals are added to the water following a schedule.	2x5=10
Lead objects	All museum visitors and especially staff.	Lead is poisonous if ingested cumulatively.	Hospitalisation or fatal illness.	2x5=10	Verbal warning to wash hands after handling lead.	1x5=5
Heavy objects	All museum visitors, especially children.	Some objects appear lighter than they are and could be picked up.	Large bruise or minor break.	3x3=9	Verbal warning to children not to handle any objects without permission.	2x3=6

*Supervision of all students is the responsibility of the students' staff and carers at all times. This includes at the museum and mine sites and on the short walk between the museum and mine.*

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*Health and safety instructions/ warnings will be issued by museum staff to students before they take part in any activities.*

**Risk Ranking:**

<b>Likelihood</b>	<b>X</b>	<b>Consequence =</b>	<b>Risk Factor</b>
Incredible (1)		No Injury (1)	
Very unlikely (2)		Minor injury (e.g. Small bruise/abrasion/cut) (2)	
Unlikely (3)		Significant Injury (e.g. large bruise/abrasion/cut, broken finger/toe) (3)	
Likely (4)		Major Injury (e.g. Broken limb/loss of eye/hospitalisation) (4)	
Certain (5)		Fatal Injury (5)	